

# PHASE I ENVIRONMENTAL SITE ASSESSMENT

3203 W. 71<sup>ST</sup> STREET AND DEARBORN AVENUE  
CLEVELAND, OHIO 44102

FEBRUARY 2023

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CLEVELAND, OHIO 44102

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\*We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. We have developed and performed the all appropriate inquiry in general conformance with the standards and practices set forth in 40 CFR Part 312.



## EXECUTIVE SUMMARY

The Mannik & Smith Group, Inc. (MSG) was retained by the Ohio Environmental Protection Agency (EPA) to complete a Phase I Environmental Site Assessment (ESA) of the property addressed at 3203 West 71st Street and Dearborn Avenue, Cleveland, Ohio 44102 (hereinafter referred to as the "Site"). MSG completed the Phase I ESA in general conformance with the scope and limitations of the ASTM International (ASTM) Standard Practices E1527-13 and E1527-21 "Environmental Site Assessments: Phase I Environmental Site Assessment Process," which incorporates the All Appropriate Inquiries (AAI) rule requirements codified in 40 CFR Part 312 of the Federal Register and with the Ohio VAP Phase I ESA standards promulgated under Ohio Administrative Code (OAC) Rule 3745-300-06. The goal of the processes established by these standards is to identify recognized environmental conditions (RECs), controlled recognized environmental conditions (CRECs), historical recognized environmental conditions (HRECs), and/or *de minimis* conditions, as described within ASTM E1527-13 and -21 and to document Identified Areas (IAs) and/or Off-Site Source(s) or Source Area(s) of potential environmental contamination in connection with the Site.

The Site is comprised of a total of 1.79 acres of undeveloped industrial land situated on the east side of West 71<sup>st</sup> Street and south of Dearborn Avenue. Access to the Site is from West 71<sup>st</sup> Street and Dearborn Avenue.

According to property ownership records, historical aerial photographs, Sanborn Maps, and city directories, the northern Site parcel was formerly undeveloped land from the late 1930s to the early 1950s and the southern Site parcel has never been developed. The northern Site parcel was developed with at least one structure from the late 1960s through the late 2010s. According to city directories, Hull R. O. Company Inc. operated at the Site from at least 1966 to 1975, Rohco Inc. operated at the Site from at least 1980 to 1985, and various commercial companies operated at the Site from at least 1990 to 2011. Vendetta Towing Inc. most recently occupied the Site building in 2018.

According to Sanborn Maps, three gasoline tanks of unknown size were located on the northern Site parcel from 1950 through 1971. However, no records pertaining to the installation or closure of underground storage tanks (USTs) at the Site were identified during the preparation of this Phase I ESA. Accordingly, the potential presence of orphan USTs and/or potential presence of former USTs with no closure documentation represents a REC/IA in connection with the Site.

The environmental database report generated for the Site and surrounding properties identified a total of 130 database entries associated with 60 facilities within the target ASTM search distances relative to the Site, with seven entries associated with the Site. Based on the information provided on the database report, the only listing associated with the Site that represents a REC/IA is the SPILLS database listing that identified one spill of an unknown amount related to an orphan drum of unknown material in April 2016.

Based on the information provided on the database report and other influencing factors such as the anticipated direction of local groundwater flow, none of the surrounding facilities appear to be likely to impact the Site.

The Ohio EPA provided records related to the former American Recycling Company building on the northern Site parcel. The records indicate that the American Recycling Company stored mercury waste, ignitable waste solvents, and polychlorinated biphenyls (PCBs) at the Site; however, no information was provided regarding the storage practices or disposal of these hazardous materials.

This assessment has revealed no evidence of RECs, CRECs, HRECs, or IAs in connection with the Site with the exception of the following:

**REC/IA-1:** Three gasoline USTs of unknown size were reported located on the northern Site parcel from at least 1950 through 1971; however no records pertaining to the installation or closure of USTs at the Site were identified during the preparation of this Phase I ESA. Accordingly, the potential presence of orphan USTs at the Site and/or potential presence of former USTs with no closure documentation

represents a REC/IA in connection with the Site. Anticipated constituents of concern (COCs) associated with this REC/IA include: volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH) gasoline range organics (GRO), and lead.

**REC-2/IA:** The SPILLS database identified one spill of an unknown size from an orphan drum of unknown contents on the Site in April 2016. Additionally, the Ohio EPA provided limited records related to the former storage and handling of hazardous materials. The lack of information in the SPILLS database related to the type and quantity of material spilled, affected environmental media, and any subsequent cleanup activities, as well as the Ohio EPA records related to the former storage and handling of hazardous materials, this represents a REC/IA in connection with the Site. Anticipated COCs associated with this REC/IA include: VOCs, semi-volatile organic compounds (SVOCs), PCBs, and heavy metals.

Please note that this Executive Summary is provided as a general overview to conveniently identify RECs, HRECs, CRECs associated with the Site. It is not intended as a stand-alone document and does not contain all of the information that is presented within the body of the report. The attached Phase I Environmental ESA report should be read in its entirety to obtain a complete understanding of the information provided and to assist you with your plans for the Site.

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## 1.0 INTRODUCTION

The Mannik & Smith Group, Inc. (MSG) was retained by the Ohio Environmental Protection Agency (EPA) to complete a Phase I Environmental Site Assessment (ESA) in accordance with ASTM International Standard Practices E1527-13 and E1527-21 "*Environmental Site Assessments: Phase I ESA Process*." ASTM Standard Practice E1527-13 incorporates the All Appropriate Inquiries (AAI) rule requirements codified in 40 CFR Part 312 of the federal register. Additionally, per the Ohio EPA's request, we also completed this Phase I ESA in accordance with the Ohio Voluntary Action Program (VAP) Phase I Property Assessment standards promulgated under Ohio Administrative Code (OAC) Rule 3745-300-06.

### 1.1 Site Location and Description

The Ohio EPA authorized MSG to prepare this Phase I ESA for Cuyahoga County parcel numbers 006-28-038 and 006-28-050 addressed as 3203 West 71st Street and Dearborn Avenue, Cleveland, Ohio 44102 (hereinafter collectively referred to as the "Site"). A Site Location Map is presented as Figure 1, which is located in Appendix A.

The Site is comprised of a total of 1.79 acres of undeveloped industrial land situated on the east side of West 71<sup>st</sup> Street and south of Dearborn Avenue. . Access to the Site is from West 71<sup>st</sup> Street and Dearborn Avenue.

### 1.2 Purpose and Scope of Services

The purpose for completing this Phase I ESA is to identify recognized environmental conditions (RECs)<sup>1</sup>, controlled recognized environmental conditions (CRECs)<sup>2</sup>, historical recognized environmental conditions (HRECs)<sup>3</sup>, and/or *de minimis* conditions<sup>4</sup>, as described within ASTM E1527-13 and -21, and document Identified Areas (IAs)<sup>5</sup> and/or Off-Site Source(s) or Source Area(s) of potential environmental contamination in connection with the Site. Additionally, this Phase I ESA will permit the users, whom we understand to be the Cuyahoga County Land Reutilization Corporation (Land Bank) and the Hillson Nut Company, Inc. to satisfy the requirements necessary to qualify for the innocent landowner, contiguous property owner, or *bona fide* prospective purchaser defenses, as defined within the Small Business Liability Relief and Brownfields Revitalization Act amendments to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

Brief summaries of the qualifications of the individuals who completed, prepared and reviewed this Phase I ESA are presented in Appendix B.

### 1.3 Significant Assumptions

In preparation of this report, MSG has relied upon information contained in the files of federal, state, and local governmental agencies available at the time of completion of this Phase I ESA. Although there may have

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<sup>1</sup> A REC is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to a release to the environment; (2) under conditions indicative a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

<sup>2</sup> A CREC is defined as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g., property use restrictions, activity and use limitations, institutional controls or engineering controls).

<sup>3</sup> A HREC is defined as a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (e.g., property use restrictions, activity and use limitations, institutional controls or engineering controls). HRECs are generally not considered RECs.

<sup>4</sup> A *de minimis* condition is defined as a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. *De minimis* conditions are not RECs.

<sup>5</sup> Ohio VAP defines an IA as the location at a property where a release of hazardous substances and/or petroleum has or may have occurred.

been some degree of overlap in the information provided by these sources, MSG did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this assessment. Furthermore, MSG has relied upon information received from representatives of the Site owner and/or tenant, and considers all such information received to be accurate unless contradicted by written documentation or field observations.

#### **1.4 Data Gaps and Limiting Conditions**

The conclusions presented herein are based on the level of effort and investigative techniques defined within MSG's authorized Scope of Work and the standard(s) referenced in Section 1.2 of this report. MSG has completed this investigation in a manner consistent with sound industry practices using professional judgment and exercising a reasonable standard of care. No other warranty or guarantee, expressed or implied, is made. This report does not attempt to evaluate past or present compliance with federal, state, and local environmental or land use laws and regulations. MSG makes no guaranty regarding the completeness or accuracy of any information obtained in our review of public or private files, or those that may have been provided by any third party. General limitations for Phase I ESAs are presented in Appendix C and limitations specific to this Phase I ESA are discussed below as applicable.

MSG did not identify any data gaps in the performance of this Phase I ESA.

#### **1.5 Deviations**

MSG did not undertake deletions or significant deviations from the ASTM 1527-13 and -21 standard scopes of work as part of this project. However, MSG completed additional investigation activities required by OAC Rule 3745-300-06(H)(2) to satisfy the Ohio EPA's request to comply with Ohio's VAP.

#### **1.6 Special Terms and Conditions**

No special terms or conditions have been imposed upon or requested of MSG in the performance of this Phase I ESA.

#### **1.7 User Reliance**

This report is provided for the exclusive use of the Ohio EPA, the Cuyahoga County Lank Bank, and the Hillson Nut Company, Inc. The reliance of the Cuyahoga County Lank Bank and the Hillson Nut Company, Inc. on the contents of this report is subject to the same terms, conditions and limitations on liability listed in Ohio Department of Administrative Services Contract Number CSP904622-5 as the Ohio EPA for whom this work was completed.

## **2.0 USER-PROVIDED INFORMATION**

Pursuant to the requirements of ASTM Standard Practice E1527-13 and E1527-21, MSG supplied the Cuyahoga County Land Bank with a User Questionnaire that included a request for information related to the following:

### **2.1 Environmental Liens, Judicial Records, or Activity and Use Limitations (AULs)**

MSG reviewed a Chain of Title and Environmental Lien / Activity and Use Limitation (AUL) report prepared by Historical Information Gatherers, Inc. (HIG), which included a search of records from January 1, 1940 through January 12, 2023. MSG did not identify any environmental liens, judicial records, or AULs in connection with the Site in the report provided by HIG.

### **2.2 Specialized Knowledge about Environmental Conditions**

The Cuyahoga County Land Bank noted that the previous use of the Site was a factory, which had burned down before it was fully demolished by the city. MSG was not provided with any other information or specialized knowledge about environmental conditions pertaining to the Site.

### **2.3 Commonly Known or Reasonably Ascertainable Information**

MSG was not provided with any third party information indicating that the Site is commonly known to be impacted by environmental issues, nor was any reasonably ascertainable information provided to MSG suggesting the Site is so impacted.

### **2.4 Copies of Previous Environmental Reports**

MSG was not provided with copies of any previous environmental reports regarding the Site.

### **2.5 Information Indicating that a Reduction in Property Value Exists due to the Presence of Environmental Issues**

MSG has not been provided information that the Site value has been reduced in consideration of environmental issues at the Site.

### 3.0 VAP ELIGIBILITY EVALUATION

As outlined in OAC Rule 3745-300-02, a Site is eligible to participate in Ohio's VAP provided, that no portion of the Site is:

- Identified on the National Priorities List (NPL);
- Subject to the requirements under the Underground Injection Control Program (UICP);
- Subject to federal or state corrective action permit obligations;
- Subject to federal enforcement;
- Subject to closure as a hazardous waste facility or solid waste facility;
- Subject to the requirements for site assessment, removal, or remediation in accordance with the Bureau of Underground Storage Tank Regulations (BUSTR) rules and/or guidance;
- Subject to the requirements for site assessment, removal or remediation of oil and gas well(s); or,
- Subject to a state enforcement letter.

Based upon MSG's review of documents and completion of a Site inspection, the Site appears to be eligible for Ohio's VAP as codified in OAC Rule 3745-300-02 with the following considerations:

- The Site is not identified on the NPL;
- MSG reviewed the Ohio Department of Natural Resources (ODNR), Division of Water Website and did not identify any water supply or monitoring wells at the Site. The Site is also not subject to the underground injection control program;
- Based on MSG's review of publicly-available records, the Site is not currently under federal or state corrective action permit obligations;
- MSG is not aware of any state or federal enforcement action associated with the Site. No issuance of administrative or judicial orders, injunctions and/or consent decrees was reported in the publicly-available records reviewed for the Site;
- MSG did not observe any oil and/or gas wells on the Site. Further, MSG reviewed the ODNR's Oil and Gas Well Locator Website and did not identify any oil or gas fields, wells, or borings on the Site; and,
- The Site is not registered as a BUSTR facility.

The Site is therefore judged to be eligible to participate in Ohio's VAP.

## 4.0 RECORDS REVIEW

### 4.1 Property Ownership Information

The Site is comprised of 1.79 acres of land encompassing Cuyahoga County parcel numbers 006-28-038 and 006-28-050 addressed as 3203 West 71st Street and Dearborn Avenue, Cleveland, Ohio. Table 4.1 presents a summary of historical ownership for the Site based upon a review of deeds in the Chain of Title search provided by HIG and property transfer records readily available on the Cuyahoga County auditor's website. Copies of parcel information and transfer records for the Site are included in Appendix D:

**Table 4.1 Summary of Historical Ownership – Parcel No. 006-28-038 & 006-28-050**

Grantor	Grantee	Date	Possible IA, REC, HREC, or CREC?
Robert A McDowell	Robert C. McDowell and Lorraine McDowell	12/31/1948	No
Robert C. McDowell and Lorraine McDowell	R. O. Hull & Company Inc.	11/29/1962	No
R. O. Hull & Company Inc.	Eohco, Inc.	05/17/1979	No
Rohco, Incorporate	West 71st Street Associates	01/02/1985	No
West 71st Street Associates	Joseph A. Cala	12/20/2001	No
Joseph A. Cala	Treasurer of Cuyahoga County, Ohio	08/30/2021	No
Bryan Dunn, Deputy County Fiscal Officer	Cuyahoga County Land Reutilization Corp.	07/18/2022	No

An Environmental Professional (EP), as defined by the ASTM E1527-13 and E1527-21 standards, completed the recorded land ownership history for the purpose of evaluating whether or not the current or previous owners of the Site suggest an environmental concern for the Site and should not be relied upon for a guaranteed determination of property ownership.

### 4.2 City Directory Information

MSG reviewed available Haines Cleveland Directories city directories for the Site and surrounding properties provided by HIG for the following years: 1960, 1966, 1970, 1975, 1980, 1985, 1990, 1995-1996, 2000-2001, 2006, 2011, and 2018. It should be noted that parcel no. 006-28-050 has no associated address and therefore is not listed in the city directories. However, this is not considered a significant data gap because according to historical aerial photographs, this parcel has been undeveloped dating back to at least 1938. Table 4.2 summarizes the city directories reviewed for the Site and appropriate portions of the city directories are provided in Appendix D.

**Table 4.2 Summary of City Directories**

3203 West 71st Street - Site		
Year	Occupant	Possible IA, REC, HREC, or CREC?
1960	Not Listed	No
1966	Hull R. O. Company Inc.	No
1970		
1975		
1980	Rohco Inc.	No
1985	Not Listed	No

3203 West 71st Street - Site		
Year	Occupant	Possible IA, REC, HREC, or CREC?
1990	Westemoreland Journal / S. S. D. Distribution / Nurse One Inc. / C&P Service Company	No
1995-1996	Westemoreland Journal / Protective Packaging / Jim K. Haely / Joseph A. Cala / C&P Service Company / Advance Handling	No
2000-01	Joseph A. Cala / Advance Handling & Storage Products	No
2006		
2011		
2018			Vendetta Towing Inc.	No

### 4.3 Topographic Map Review

The United States Geological Survey (USGS) 7.5-Minute topographic map for Cleveland South, Ohio and Lakewood, Ohio quadrangles (dated 2019) indicate that the Site is located in a relatively flat area within the City of Cleveland. The general elevation of the Site is approximately 700 feet above mean sea level (msl). No Site structures are shown on this map; however, the Site is depicted on a map that only displays public features, such as roadways and schools. The topography of the area implies that shallow groundwater movement is to the north towards Lake Erie. A copy of the appropriate portion of the USGS map is presented as Figure 1 located in Appendix A, the Site Location Map.

MSG contacted HIG to review historical topographic maps for the Site. Table 4.3 summarizes the topographic maps reviewed and appropriate portions of the topographic maps are provided in Appendix E.

**Table 4.3 Summary of Topographic Maps**

Year	Site	Surrounding Properties	Possible IA, REC, HREC, or CREC?
1903 15x15 USGS	The Site appears to be developed with several small structures.	C.C.C. and ST. L. Railroad is depicted along the southern boundary of the Site. Small structures are depicted to the north, east, and west of the Site.	No
1953 7.5x7.5 USGS	The small structures are no longer depicted on the Site and have been replaced with a larger building. No other significant changes are observed from the previous topographic map dated 1903.	Former dwellings depicted to the north, east, and west of the Site are no longer depicted. Union stick yards is depicted to the south, across the railroad. The northern portion of the quadrangle is included in a shaded indicating dense urban development. No other significant changes are observed from the previous topographic map dated 1903.	No
1963 7.5x7.5 USGS	The large structure is no longer depicted. No other significant changes are observed from the previous topographic map dated 1953.	No significant changes are observed from the previous topographic map dated 1953.	No
1970 7.5x7.5 USGS	No significant changes are observed from the previous topographic map dated 1963.	No significant changes are observed from the previous topographic map dated 1963.	No

Year	Site	Surrounding Properties	Possible IA, REC, HREC, or CREC?
1979 7.5x7.5 USGS	No significant changes are observed from the previous topographic map dated 1970.	No significant changes are observed from the previous topographic map dated 1970.	No
1984 7.5x7.5 USGS	No significant changes are observed from the previous topographic map dated 1979.	No significant changes are observed from the previous topographic map dated 1979.	No
1994 7.5x7.5 USGS	No significant changes are observed from the previous topographic map dated 1984.	No significant changes are observed from the previous topographic map dated 1984.	No
2010 7.5x7.5 USGS	No features are depicted on the Site; however, this map only displays public features, such as roadways and schools. No other significant changes are observed from the previous topographic map dated 1994.	No features are depicted on the Site; however, this map only displays public features, such as roadways and schools. Union Stockyards is labeled on the southeastern adjacent property. No other significant changes are observed from the previous topographic map dated 1994.	No
2013 7.5x7.5 USGS	No significant changes are observed from the previous topographic map dated 2010.	No significant changes are observed from the previous topographic map dated 2010.	No
2016 7.5x7.5 USGS	No significant changes are observed from the previous topographic map dated 2013.	No significant changes are observed from the previous topographic map dated 2013.	No

#### 4.4 Geologic Setting and Soil Survey Information

The Site lies within an area containing Devonian-age Ohio Shale containing carbonaceous shale with carbonate/siderite concretions. MSG obtained soils information for the Site vicinity from the Soil Survey of Cuyahoga County, Ohio (United States Department of Agriculture, 1977 and 2019). Soils on the Site have been identified as belonging to the Urban Land (Ub) and Urban Land–Mahoning complex (UmB). These soils consist of areas where the original soils have been disturbed, removed, cut, and/or filled over by pavement, buildings, and other structures that obscure the original soils. The underlying Mahoning complex consists of silt loam, silty clay loam, silty clay, and clay loam.

#### 4.5 Aerial Photographs

MSG contacted HIG to obtain historical aerial photographs that cover the Site and adjoining properties. MSG reviewed and has summarized the available aerial photographs below in Table 3.4. Copies of the historical aerial photographs are provided in Appendix E.

**Table 4.4 Summary of Aerial Photograph Review**

<b>Year</b>	<b>Site Features</b>	<b>Adjoining Property Features</b>	<b>Possible IA, REC, CREC, or HREC?</b>
1938	The Site appears to be undeveloped with a road traveling through the middle of the northern parcel and a disturbed area in the central portion of the southern parcel.	Residential areas are located north, east, and west of the Site. A commercial structure is situated between the two Site parcels. West 71 <sup>st</sup> Street and Dearborn Avenue are depicted to the west and north, and a railroad is depicted south of the Site parcels.	No
1951	A large building is depicted on the northern Site parcel. No other significant changes are observed from the previous aerial photograph dated 1938.	No significant changes to the surrounding properties are observed from the previous aerial photograph dated 1938.	No
1959	The configuration of the building located on the northern parcel has changed. A road is depicted traveling through the middle of the southern Site parcel. No other significant changes are observed from the previous aerial photograph dated 1951.	No significant changes to the surrounding properties are observed from the previous aerial photograph dated 1951.	No
1960	No significant changes are observed from the previous aerial photograph dated 1959.	No significant changes to surrounding properties are observed from the previous aerial photograph dated 1959	No
1969	An additional structure appears on the eastern side of the northern Site parcel. An additional disturbed area appears on the southern Site parcel. No other significant changes are observed from the previous aerial photograph dated 1960.	No significant changes to surrounding properties are observed from the previous aerial photograph dated 1960.	No
1970	No other significant changes are observed from the previous aerial photograph dated 1969.	No significant changes to surrounding properties are observed from the previous aerial photograph dated 1969.	No
1977	The southern Site parcel appears to have been paved. No other significant changes are observed from the previous aerial photograph dated 1970.	No significant changes to surrounding properties are observed from the previous aerial photograph dated 1970.	No
1982	No significant changes are observed from the previous aerial photograph dated 1977.	No significant changes to surrounding properties are observed from the previous aerial photograph dated 1977.	No
1991	No significant changes are observed from the previous aerial photograph dated 1982.	No significant changes to surrounding properties are observed from the previous aerial photograph dated 1982.	No
1994	No significant changes are observed from the previous aerial photograph dated 1991.	No significant changes to surrounding properties are observed from the previous aerial photograph dated 1991.	No
2000	No significant changes are observed from the previous aerial photograph dated 1994.	No significant changes to the surrounding properties are observed from the previous aerial photograph dated 1994.	No

Year	Site Features	Adjoining Property Features	Possible IA, REC, CREC, or HREC?
2004	No significant changes are observed from the previous aerial photograph dated 2000.	No significant changes to surrounding properties are observed from the previous aerial photograph dated 2000.	No
2009	No significant changes are observed from the previous aerial photograph dated 2004.	No significant changes to surrounding properties are observed from the previous aerial photograph dated 2004.	No
2013	No significant changes are observed from the previous aerial photograph dated 2009.	No significant changes to surrounding properties are observed from the previous aerial photograph dated 2009.	No
2019	The former structures on the northern Site parcel are no longer depicted. No other significant changes are observed from the previous aerial photograph dated 2013.	No significant changes to surrounding properties are observed from the previous aerial photograph dated 2013.	No

#### 4.6 Sanborn Fire Insurance Rate Maps (Sanborn Maps) Review

MSG contacted HIG to obtain Sanborn Maps that cover the Site and adjoining properties. MSG reviewed and has summarized the available maps below in Table 4.5. Copies of the Sanborn Maps are provided in Appendix E.

**Table 4.5 Summary of Sanborn Maps Review**

Year	Site Features	Adjoining Property Features	Possible IA, REC, CREC, or HREC?
1892	The Site is depicted undeveloped land.	Adjacent properties are depicted as undeveloped, although scattered residential dwellings are depicted to the north. Cleveland Stock Yards are depicted to the east and C.C.C. & ST. L. Railway is depicted to the south.	No
1898	The Site contains two small structures on the northern parcel. No other significant changes are observed from the previous map dated 1892.	The Cleveland Belt & Terminal Company is located south adjacent, across the railroad. Additional residential dwellings are depicted throughout the surrounding area. No other significant changes are observed from the previous map dated 1892.	No
1903	The northern Site parcel is depicted with a large structure on the eastern portion of the parcel, labeled as The Sheltler Woolen Company Shoddy Mill. Two smaller warehouses and a shed are located around the main large building. No other significant changes are observed from the previous map dated 1898.	No significant changes are observed from the previous map dated 1898.	No
1912	Two additional sheds are depicted on the northern Site parcel. No other significant changes are observed from the previous map dated 1903.	No significant changes are observed from the previous map dated 1903.	No

Year	Site Features	Adjoining Property Features	Possible IA, REC, CREC, or HREC?
1913	The large manufacturing building has been relabeled as Formerly The Ohio Yarn Mills Company. An additional structure is depicted on the northern portion of the northern parcel. No other significant changes are observed from the previous map dated 1912.	A Cattle Pen is depicted south adjacent, across the railroad tracks. No other significant changes are observed from the previous map dated 1912.	No
1924	The large manufacturing building has been relabeled as The U.S. Leather Company. No other significant changes are observed from the previous map dated 1913.	No significant changes are observed from the previous map dated 1913.	No
1937	All former structures are no longer depicted. A smaller structure and two sheds are depicted on the northern portion of the northern parcel. No other significant changes are observed from the previous map dated 1924.	The C.U.T. Company Sub Station is depicted south adjacent to the northern Site parcel. Cleveland Horse Market, Farm Bureau Warehouse, and large buildings associated with the Cleveland Union Stock Yards Company are depicted south across the railroad. No other significant changes are observed from the previous map dated 1924.	Jo
1950	A Contractors Equipment Stage building is depicted in the middle of the northern Site parcel. Three underground gasoline tanks are depicted west adjacent to the Site building. A garage is depicted along the southern parcel boundary. No other significant changes are observed from the previous map dated 1937.	No significant changes are observed from the previous map dated 1937.	Yes - The three underground gasoline tanks of unknown size on the northern Site parcel represent as a potential REC/IA due to the lack of installation, closure, and/or potential release information.
1952	Additions to the Contractors Equipment Stage building are depicted including offices. The structure is labeled as McDowell Company Inc. A smaller building is depicted adjacent to the main Site building, and the former garage is no longer depicted. No other significant changes are observed from the previous map dated 1950.	The former C.U.T. Company Sub Station has been relabeled as The Hillson Nut Company. No other significant changes are observed from the previous map dated 1950.	
1963	No significant changes are observed from the previous map dated 1952.	No significant changes are observed from the previous map dated 1952.	
1965	No significant changes are observed from the previous map dated 1963.	No significant changes are observed from the previous map dated 1963.	
1971	An additional warehouse was added to the main Site building. No other significant changes are observed from the previous map dated 1965.	No significant changes are observed from the previous map dated 1965.	

#### 4.7 Ohio Department of Natural Resources (ODNR) – Division of Geological Survey

MSG reviewed the ODNR – Division of Geological Survey Oil and Gas Location Map for the Site and surrounding area. According to the online map reviewed for the Site, no oil or gas wells, fields, or borings are located on or near the Site.

A copy of the ODNR Oil and Gas Map for the Site is included in Appendix E.

#### 4.8 Ohio Department of Natural Resources (ODNR) – Division of Water

Potable water is available to the Site and surrounding area from the City of Cleveland. MSG also reviewed the ODNR website for water well logs for the Site and surrounding area. According to the online map reviewed for the Site, no water wells are located on or near the Site. It is important to note that the Site exists within a verified Ohio EPA Urban Setting Designation (USD) area, which precludes the use of groundwater for potable purposes.

A copy of the ODNR Water Well Map for the Site is included in Appendix E.

#### 4.9 Federal and State Database Search

MSG subcontracted with HIG to review federal and state databases specified in the current ASTM and VAP standards. HIG has verified to MSG that the information they provided complies with the ASTM and VAP standards in that the information has been updated within the last 90 days or within 90 days of the date the governmental agency makes the information available to the public. A copy of the database report is presented in Appendix F. MSG reviewed the following ASTM and VAP-specified federal and state databases:

##### Federal

- National Priorities List (NPL);
- Superfund Enterprise Management System (SEMS);
- Resource Conservation and Recovery Information System (RCRIS);
- Resource Conservation and Recovery Information System - Treatment, Storage, and Disposal Facilities, (RCRA - TSD);
- Resource Conservation and Recovery Information System - Corrective Action Sites (RCRA - COR);
- Resource Conservation and Recovery Information System - Large and Small Quantity Generators (RCRA GEN);
- Resource Conservation and Recovery Information System - Sites No Longer Regulated (RCRA NLR); and,
- Emergency Response Notification System (ERNS).

##### State

- Ohio Hazardous Site Inventory (State Sites List);
- Ohio Solid Waste Facilities (SWF);
- Ohio Leaking Underground Storage Tanks (LUST);
- Ohio Underground Storage Tanks (UST); and,
- Ohio Spills List (SPILLS).

##### 4.9.1 Database Results Summary

The environmental database report generated for the Site and surrounding properties identified a total of 130 database entries associated with 60 facilities within the target ASTM search distances relative to the Site, with seven entries associated with the Site. Additional information about the

identified facilities follows and a map showing their locations is presented in the ERIS® Report in Appendix F.

#### 4.9.2 Site-Specific Results

The Site was listed on the USD, the Facility Registry Service/Facility Index (FINDS/FRS), Ohio Emergency Response (ER) Spills data (SPILLS), Polychlorinated Biphenyl (PCB) Notifiers (PCB), and Resource Conservation and Recovery Act Non-Generators (RCRA NON GEN) databases.

The Site is listed as being within both the Cleveland-Inner West and Cleveland City-Wide USD areas. The USD database identifies areas verified through Ohio EPA's VAP where groundwater cannot be used for potable purposes. The FINDS/FRS and RCRA NON GEN database listings are associated with the RCRA non-generator status of the former occupant of the northern Site parcel with no reported violations or enforcement actions related to releases of petroleum or hazardous substances to environmental media. The PCB Notifiers database listing did not indicate that a spill or release of PCBs had occurred at the Site. The SPILLS database identified one spill of an unknown amount related to an orphan drum of unknown material in April 2016. Due to the lack of information in the SPILLS database related to the type and quantity of material spilled, affected environmental media, and any subsequent cleanup activities, this listing represents a REC/IA in connection with the Site.

#### 4.9.3 Surrounding Area Summary

MSG eliminated 57 surrounding facilities from further consideration based on their RCRA non-generator status, Ohio VAP Covenant-Not-To-Sue (CNS) status, BUSTR No Further Action (NFA) status, no reported violations or corrective actions, and/or their location either down or cross gradient relative to the Site based on the interpreted direction of groundwater movement.

The remaining surrounding property that has the potential to impact the Site is discussed further below:

- Simkins Industries located southwest (up-gradient) of the Site at 7275 Wentworth Avenue was listed on the CERCLIS, CERCLIS NFRAP, RCRA CORRACTS, SPILLS, DERR, FINDS/FRS, FED BROWNFIELDS, SEMS ARCHIVE, and RCRA NON GEN databases. A Phase I ESA was completed in June 2004 and identified manufacturing activities on the site. The report recommended the completion of a limited Phase II, waste characterization study and management, an asbestos survey, and a lead based paint survey. A Phase II Report was completed in May 2006 and concluded that residential use of the site would require soil remediation; however, commercial/industrial use would not require soil remediation. These assessments indicate that localized impacts at this facility are not likely to impact the Site and therefore do not represent an off-Site REC/IA. The SPILLS database reported a 350-gallon release of non-PCB transformer oil to a storm drain in January 2007. Because this spill was reportedly intercepted by a storm drain, it does not appear likely to have impacted the Site.

#### 4.10 Freedom of Information Act (FOIA) Requests

MSG submitted FOIA requests to the following local or state governmental agencies for information pertaining to the Site: the City of Cleveland Fire Department (CFD), the Cleveland Health Department, Cuyahoga County Local Emergency Planning Committee (LEPC), City of Cleveland Building and Housing Department, BUSTR, and the Ohio EPA. A summary of responses received from the agencies is provided in the following paragraphs.

The Cleveland Fire Department provided inspection records, meeting notes, and drawings of the former buildings on the Site.

The Cleveland Health Department provided records of an asbestos abatement project completed in October 2017. Records include the facility description and operation, asbestos quantity and cost, and asbestos action information. The Health Department also included Notices of Violation email correspondence and records of an Inspection Report completed by the Cleveland Local Air Agency in December 2001. All violations were corrected and do not represent a REC/IA in connection with the Site.

The Ohio EPA provided records related to the former American Recycling Company building on the northern Site parcel. The records indicate that the American Recycling Company stored mercury waste, ignitable waste solvents, and polychlorinated biphenyls (PCBs) at the Site; however, no information was provided regarding the storage practices or disposal of these hazardous materials. Accordingly, the former presence of these hazardous materials represents a potential REC in connection with the Site.

BUSTR and Cuyahoga County LEPC responded indicating that they had no information related to the Site.

No other agencies have responded as of the date of submittal of this report. If subsequently-provided information indicates an environmental concern for the Site, MSG will issue an addendum to this report. The absence of this information does not represent a significant data gap as corroborating sources of other information reviewed and discussed throughout this report do not suggest that these governmental agencies contain information about hazardous substances or petroleum products that may have been released at the Site. Copies of our requests for information and agency responses are included in Appendix G.

## 5.0 SITE RECONNAISSANCE

MSG completed a reconnaissance of the Site on January 5, 2023. Photographs taken during the Site reconnaissance are presented in Appendix H. A Site Layout map depicting Site features and adjacent property uses is presented as Figure 2 located in Appendix A.

### 5.1 Utilities/Services

The Site is currently vacant and utility services are not active; however, utility services are available from the following local providers:

Water: Cleveland Water Department;  
Wastewater: Northeast Ohio Regional Sewer District;  
Natural Gas: Dominion East Ohio; and,  
Electric: First Energy.

### 5.2 Descriptions of Structures, Roads and Other Improvements

The Site is currently vacant and no structures remain, only remnant asphalt paved areas on the southern Site parcel.

### 5.3 Hazardous Substances, Petroleum Products and Unidentified Substance Containers

MSG did not identify any hazardous substances, petroleum products, or unidentified substance containers at the Site.

### 5.4 Underground and Aboveground Storage Tanks (USTs and ASTs)

During the Site reconnaissance, MSG did not observe ASTs or USTs on the Site nor evidence of ASTs or USTs having been removed from the Site.

### 5.5 Polychlorinated Biphenyls (PCBs)

MSG observed three pole mounted transformers on the eastern portion of the Site that appeared to be in good condition with no evidence of a release (i.e. stressed vegetation or staining) on the ground near the transformers. MSG did not observe any other potential PCB containing equipment at the Site.

### 5.6 Solid Waste Disposal

The Site is unoccupied and, therefore, not currently generating solid waste. Small piles of debris (i.e. pallets, pieces of wood, and miscellaneous household trash) were noted during the Site reconnaissance; however, MSG did not observe any evidence that the Site has been used for solid waste disposal (i.e. landfilling).

### 5.7 Wastewater

The Site is currently vacant and not generating wastewater.

## **5.8 Storm Water**

Storm water infiltrates the unpaved portions of the Site or is otherwise diverted by natural grading patterns to storm water catch basins located on W. 71<sup>st</sup> Street. MSG did not observe evidence of staining or sheen in or near the catch basins.

## **5.9 Stressed Vegetation**

MSG did not observe unseasonably stressed vegetation during the Site reconnaissance.

## **5.10 Stained Soil or Pavement**

At the time of the Site reconnaissance, MSG did not observe stained soils or pavement.

## **5.11 Odors**

MSG did not note strong, pungent, or noxious odors during the Site reconnaissance.

## **5.12 Pools of Liquid**

MSG did not observe pools of liquid on the Site.

## **5.13 Pits, Ponds, or Lagoons**

MSG did not observe any pits, ponds, or lagoons during the Site reconnaissance.

## **5.14 Wells**

MSG did not observe any water wells, dry wells, irrigation wells, injection wells, abandoned wells, or oil/gas wells during the Site reconnaissance. Additionally, a search of ODNR records did not identify any water wells or oil/gas wells on or near the Site.

## **5.15 Septic Systems**

MSG did not observe evidence of septic systems (i.e., clean outs) during the Site reconnaissance and the Northeast Ohio Regional Sewer District provides sanitary sewer service to the area.

## **5.16 Other Items of Note or Conditions of Concern**

MSG did not observe any other items of note or conditions of concern at the time of Site reconnaissance.

## **5.17 Current and Past Uses of the Site**

The Site is currently a vacant. Property ownership records, city directories, aerial photographs, and Sanborn Maps indicate that the northern Site parcel was formerly undeveloped land from the late 1930s to the early 1950s and the southern Site parcel has never been developed. The northern Site parcel was developed with at least one structure from the late 1960s through the late 2010s. According to city directories, Hull R. O. Company Inc. operated at the Site from at least 1966 to 1975, Rohco Inc. operated at the Site from at least 1980 to 1985, and various commercial companies operated at the Site from at least 1990 to 2011. Vendetta Towing Inc. most recently occupied the Site building in 2018.

## 5.18 Current Uses of Adjacent Properties

To the extent that surrounding adjacent properties were visible from the Site and public rights-of-way during the Site reconnaissance, MSG observed the current land uses of adjoining properties as described in the table below.

Table 5.1 Summary of Adjoining Land Use

Direction	Land Use	Possible IA, REC, CREC, or HREC?
North	Residential / Dearborn Avenue	No
South	Norfolk Southern Railroad / Hillson Nut Company	No
East	Residential / Norfolk Southern Railroad / Hillson Nut Company	No
West	Residential / Riverside Church	No

MSG did not observe indications of industrial uses or commercial establishments of potential concern such as dry cleaners, gasoline stations, print shops, or paint supply shops that could pose a vapor intrusion risk to indoor air on properties adjacent to the Site.

## **6.0 INTERVIEWS**

Pursuant to ASTM E1527-13 and E1527-21, MSG interviewed Ms. Anne Hillson Kennedy, owner of the neighboring property, on February 8, 2022. The interview questions attempted to obtain information about uses and conditions noted during the record review and Site reconnaissance; the existence and availability of any reports including, but not limited to environmental assessments, compliance audits, environmental permits; material safety data sheets, community right-to-know or safety plans; notices or correspondence from government environmental agencies; any pending, threatened, or past litigation relevant to hazardous substances or petroleum and/or activity use limitations relating to the Site.

### **6.1 Interview with Site Owner**

MSG contacted Ms. Anne Hillson Kennedy, owner of the neighboring property, via phone about current and past usage of the Site. She indicated that historically, the Site was used as a cleaning supplies storage facility and a towing vehicle warehouse with associated auto repair. She was unaware of any environmental concerns related to the Site.

### **6.2 Interviews with Local and State Governmental Officials**

Interviews with local and state governmental officials were not reasonably able to be completed within the time period during which MSG completed this Phase I ESA. Furthermore, the content and availability of information reviewed as part of this investigation indicated that interviews with local and state governmental officials were unlikely to provide additional information related to environmental conditions at the Site. Information from our public information requests and any correspondence with local and state agencies is included in Section 4.10 of this report.

## 7.0 FINDINGS, OPINIONS, AND CONCLUSIONS

MSG completed a Phase I ESA in general conformance with the scope and limitations of ASTM Standard Practices E1527-13 and E1527-21 and with the Ohio VAP Phase I ESA standards promulgated under OAC Rule 3745-300-06 of Cuyahoga County parcels 006-28-038 and 006-28-050 addressed as 3203 West 71st Street and Dearborn Avenue, Cleveland Ohio 44102 (Site). Any exceptions to, or deletions from these practices are described in Section 1.5 of this report.

The Site is comprised of a total of 1.79 acres of undeveloped industrial land situated on the east side of West 71<sup>st</sup> Street and south of Dearborn Avenue. Access to the Site is from West 71<sup>st</sup> Street and Dearborn Avenue.

According to property ownership records, historical aerial photographs, Sanborn Maps, and city directories, the northern Site parcel was formerly undeveloped land from the late 1930s to the early 1950s and the southern Site parcel has never been developed. The northern Site parcel was developed with at least one structure from the late 1960s through the late 2010s. According to city directories, Hull R. O. Company Inc. operated at the Site from at least 1966 to 1975, Rohco Inc. operated at the Site from at least 1980 to 1985, and various commercial companies operated at the Site from at least 1990 to 2011. Vendetta Towing Inc. most recently occupied the Site building in 2018.

According to Sanborn Maps, three gasoline tanks of unknown size were located on the northern Site parcel from 1950 through 1971. However, no records pertaining to the installation or closure of USTs at the Site were identified during the preparation of this Phase I ESA. Accordingly, the potential presence of orphan USTs and/or potential presence of former USTs with no closure documentation represents a REC/IA in connection with the Site.

The environmental database report generated for the Site and surrounding properties identified a total of 130 database entries associated with 60 facilities within the target ASTM search distances relative to the Site, with seven entries associated with the Site. Based on the information provided on the database report, the only listing associated with the Site that represents a REC/IA is the SPILLS database listing that identified one spill of an unknown amount related to an orphan drum of unknown material in April 2016.

Based on the information provided on the database report and other influencing factors such as the anticipated direction of local groundwater flow, none of the surrounding facilities appear to be likely to impact the Site.

This assessment has revealed no evidence of RECs, CRECs, HRECs, or IAs in connection with the Site with the exception of the following, which are depicted on Figure 3:

**REC/IA-1:** Three gasoline USTs of unknown size were reported located on the northern Site parcel from at least 1950 through 1971; however no records pertaining to the installation or closure of USTs at the Site were identified during the preparation of this Phase I ESA. Accordingly, the potential presence of orphan USTs at the Site and/or potential presence of former USTs with no closure documentation represents a REC/IA in connection with the Site. Anticipated constituents of concern (COCs) associated with this REC/IA include: volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH) gasoline range organics (GRO), and lead.

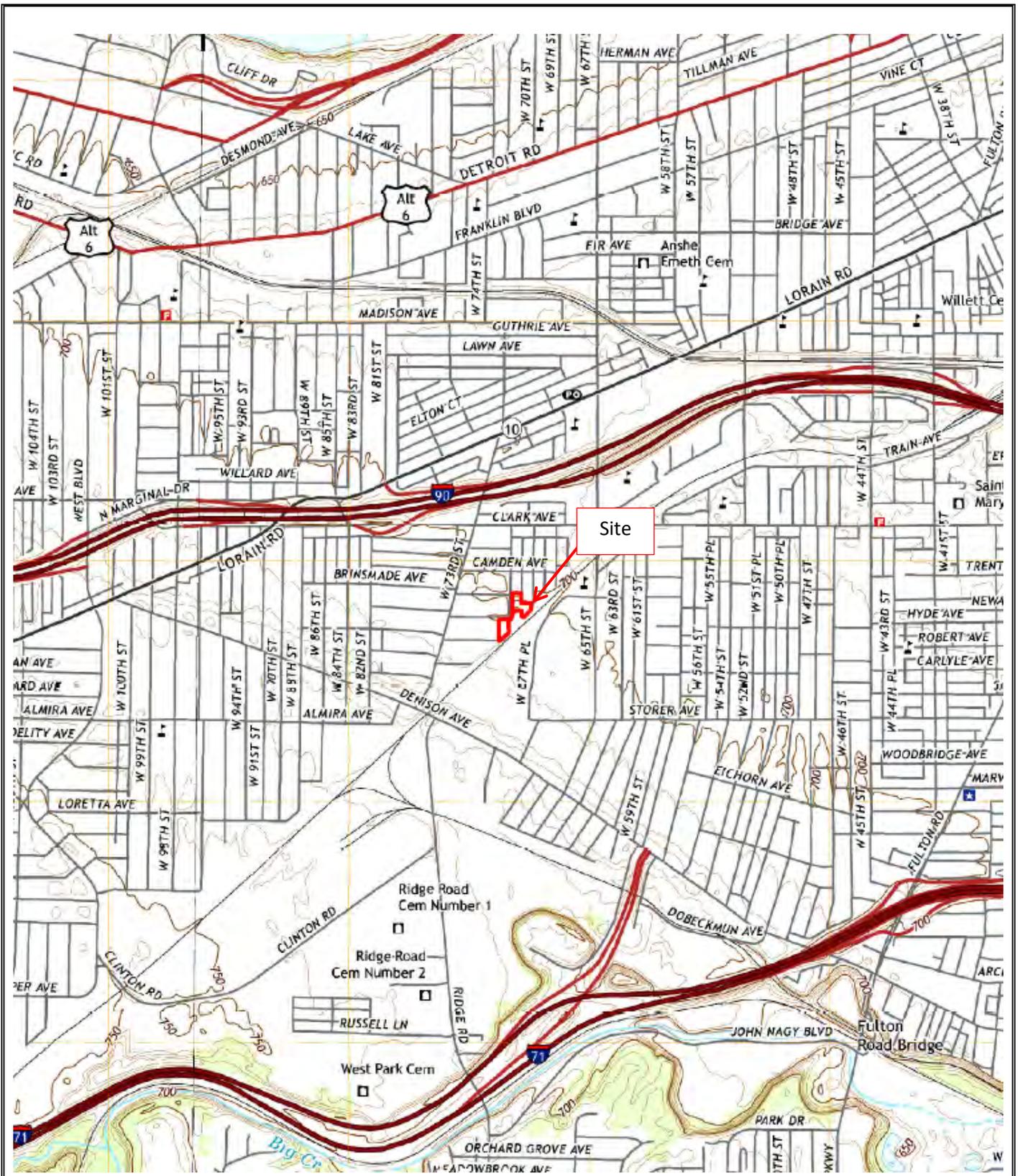
**REC-2/IA:** The SPILLS database identified one spill of an unknown size from an orphan drum of unknown contents on the Site in April 2016. Additionally, the Ohio EPA provided limited records related to the former storage and handling of hazardous materials. The lack of information in the SPILLS database related to the type and quantity of material spilled, affected environmental media, and any subsequent cleanup activities, as well as the Ohio EPA records related to the former storage and handling of hazardous materials, this represents a REC/IA in connection with the Site. Anticipated COCs associated with this REC/IA include: VOCs, semi-volatile organic compounds (SVOCs), PCBs, and heavy metals.

## 8.0 REFERENCES

- American Society for Testing and Materials Designation: E1527-13 and -21. Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Commercial Real Estate; 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959; (610) 832-9585.
- Cleveland Building Department, Written correspondence dated January 5, 2023.
- Cleveland Fire Department, Written correspondence dated January 5, 2023.
- Cleveland Health Department, Written correspondence dated January 5, 2023.
- Cuyahoga County GIS website: [myplace.cuyahogacounty.us/](http://myplace.cuyahogacounty.us/).
- Cuyahoga County Office of Emergency Management, LEPC. Written correspondence dated January 5, 2023.
- Hillson Kennedy, Anne. Owner of neighboring property. Phone interview correspondence dated February 8, 2023.
- Historical Information Gatherers, Inc., January 5, 2023. (Provided environmental database report, aerial photographs, Sanborn maps, topographic maps, and city directories).
- Ohio Department of Natural Resources. <http://ohiodnr.gov/> (Provided geologic, water well, oil/gas well information).
- Patella, Nicole. Ohio EPA, Northeast District Office. Written correspondence dated January 5, 2023.
- Snedegar, Kelly. BUSTR, Written correspondence dated January 5, 2023.
- United States Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey website: <http://websoilsurvey.nrcs.usda.gov> (Provided soil types for the Site).

APPENDIX A  
FIGURES





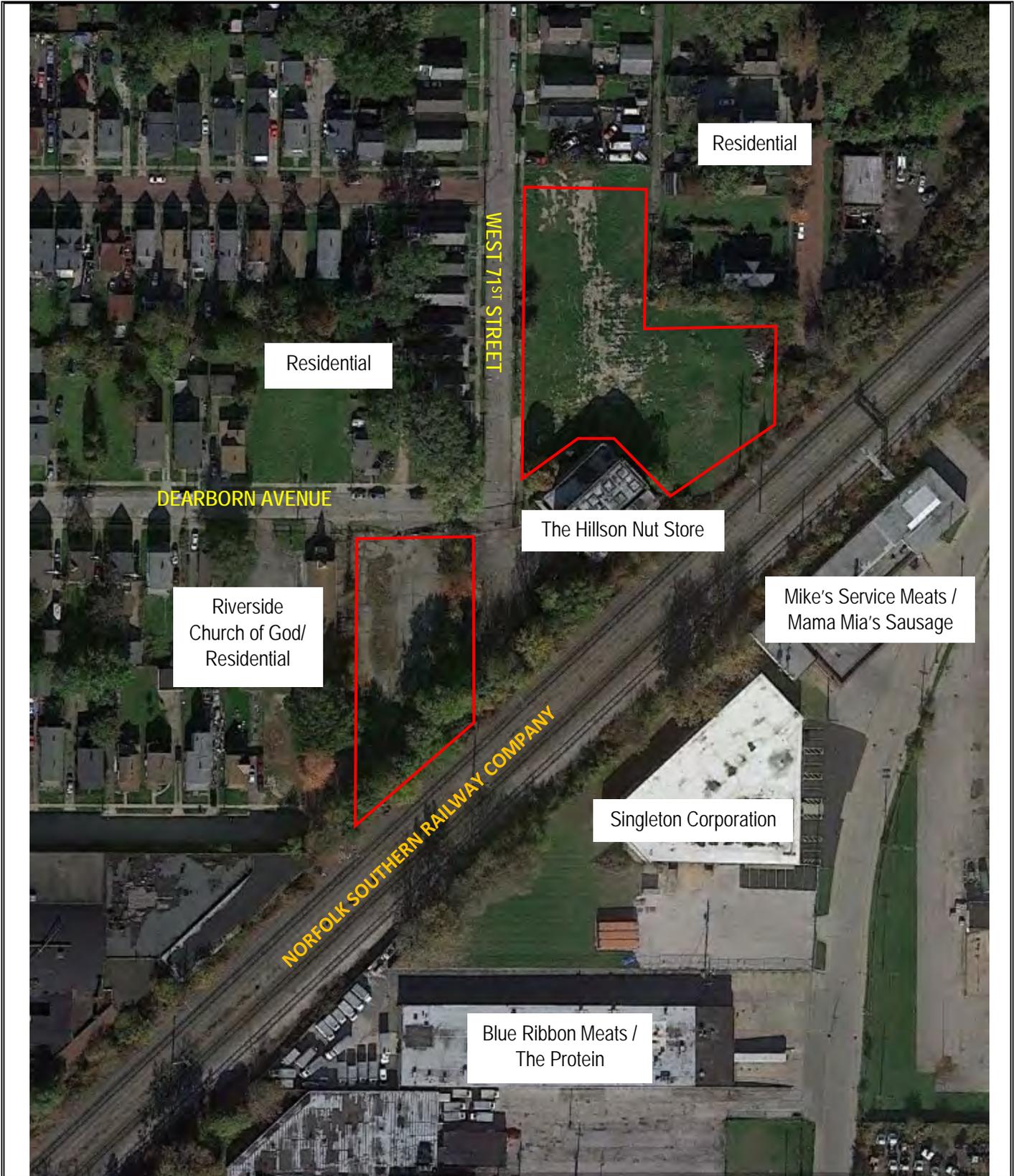
20600 Chagrin Blvd., Suite 500  
 Shaker Heights, Ohio 44122  
 Tel: 216.378.1490  
 Fax: 216.378.1497  
 www.MannikSmithGroup.com

**Figure 1:**  
**Site Location Map**  
 3203 W. 71<sup>st</sup> Street and  
 Dearborn Avenue,  
 Cleveland, Ohio

Notes: Map adapted from USGS,  
 2019 Cleveland South, Ohio and  
 Lakewood, Ohio Quadrangles  
 7.5 Minute series

Scale: 1 inch = 0.25 miles



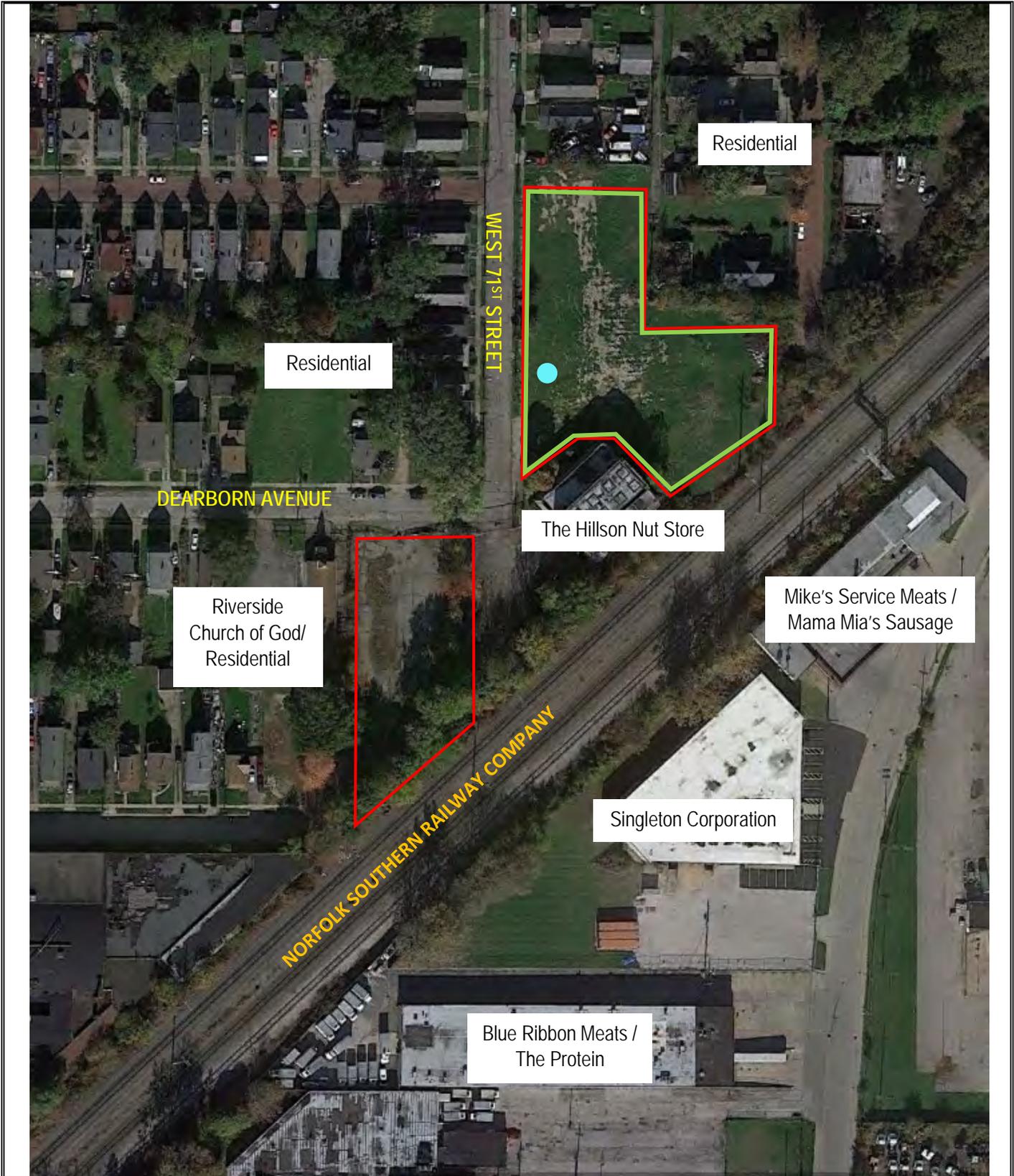


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**Figure 2: Site Detail Map**  
 3203 W. 71<sup>st</sup> Street and  
 Dearborn Avenue,  
 Cleveland, Ohio

Base Map adapted from Aerial  
 Photograph from Google Earth.  
 — Approx. Site Boundaries  
 Approx. Scale: 1 inch = 120 feet





20600 Chagrin Blvd., Suite 500  
 Shaker Heights, Ohio 44122  
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 Fax: 216.378.1497  
 www.MannikSmithGroup.com

**Figure 3: REC/IA Map**  
 3203 W. 71<sup>st</sup> Street and  
 Dearborn Avenue,  
 Cleveland, Ohio

Base Map adapted from Aerial  
 Photograph from Google Earth.  
 — Approx. Site Boundaries  
 ● REC/IA-1  
 — REC/IA-2

Approx. Scale: 1 inch = 120 feet



APPENDIX B  
RESUMES OF KEY PERSONNEL



## Professional Background

Claire Cerne is an Environmental Scientist working in the geo-environmental field. She has a background in environmental geoscience and extensive research on historic environmental events in relation to human experience. She has experience in physical material sampling for testing purposes and proficient lab work as subcontracted labor. She also has experience in conducting environmental site assessments (ESAs), asbestos evaluations, and building contractor-client relationships. She has an extensive field work background, giving her the confidence and ability to perform necessary tasks for clients and providing solutions on the fly. Claire's eagerness to take on challenges makes her dependable and confident to provide the best solutions for her client's needs.

## Specializations

### Environmental Site Assessments

Claire has experience in writing and performing Phase I and Phase II Environmental Site Assessments. With her background in geoscience, she is able to research and understand each environment the clients possess. She is well-versed in different field environments and uses her past experiences to perform her site assessments thoroughly.

### Asbestos Surveys

Claire is skilled in performing asbestos surveys and providing clients with the sampling data, analysis, and a completed report.

### HUD Noise Assessments

Claire is experienced in performing HUD noise studies following the noise assessment guidelines and procedures. She is capable of providing accurate results and reports for her clients.

### Environmental Research and Technical Writing

Claire has extensive environmental research experience from writing her academic thesis. Her two-year-long research process started before the Covid-19 pandemic, but she quickly made adjustments as the pandemic began. Her research focused on glaciology and dendrochronology in Alaska. To adapt to the pandemic, she had to pivot to remote research, but was able to gather her support and samples through video calls. With the data she was sent from colleagues in Alaska and the access to academic sources from advisors, she was able to complete a full written thesis, present at the annual American Geophysical Union fall meeting, and successfully defend her research.

## Specializations

Environmental Site Assessments

Asbestos Survey

HUD Noise Assessment

Environmental Research and Technical Writing

## Education

BA, Environmental Geoscience, The College of Wooster, 2021

## Certifications / Affiliations

OSHA 40-Hour Hazardous Waste Operations and Emergency Response

Ohio Asbestos Hazard Evaluation Specialist

Radiation and Nuclear Gauge certification: RT12662

ODOT Level I Aggregate Sampling

## Years of Experience

With MSG	2022 - Present
Other Firms	2021 - 2022

## Experience

### Environmental Site Assessments

#### **Flicore Phase 1 ESA, Beachwood Ohio, Flicore – Environmental Scientist**

Claire was involved in a Phase I Environmental Site Assessment for a restaurant and bar. She completed the preliminary research, conducted the site inspection, performed interviews, and provided the client with a completed report. Results of the study found evidence of no RECs allowing the client to proceed with their plans, knowing there were no outstanding environmental areas of concern.

#### **Lakewood Phase 1 ESA, Lakewood Ohio, Handy Rents – Environmental Scientist**

Claire conducted an Environmental Site Assessment for a vacant commercial property that had formerly been an equipment rental store. During the Phase 1 ESA, it was determined that the site had previously been used as a retail filling station and as a dry cleaner. This survey allowed her to consult the client on the following steps to remediate the RECs associated with the site's historical use.

### HUD Noise Assessment

#### **E. 15<sup>th</sup> Street Noise Assessment, Columbus, Stone Environmental – Environmental Scientist**

Claire prepared the noise assessment for a residential property with the intent to build a single-family unit. Her contributions included data collection, roadway, railway, and airport calculations, and report generation. The assessment allowed her to consult the client to proceed with the appropriate Department of Housing & Urban Development (HUD) recommendation for the site.

### Asbestos Surveys

#### **Pre-Demolition Survey, Eastlake Ohio, Handy Rents – Environmental Scientist**

Claire was involved with a pre-demolition asbestos survey for a bar and restaurant. She collected asbestos samples, prepared lab documentation, created the corresponding sampling map, and provided the client accurate results. Based on the findings, the client was properly consulted on the steps following the results before demolition of the building.

#### **Blaise Project, Cleveland Ohio, Ohio Environmental Protection Agency – Environmental Scientist**

Claire conducted the asbestos survey for a two-story building with the Ohio Voluntary Action Program (VAP) Phase I Environmental Site Assessment standards. She prepared historical research, collected samples, assessed lab results, and provided her client with the completed report.

# Matthew S. Pesci CPG

Associate / Senior Project Manager

## Professional Background

Matt is a senior project manager with more than 22 years of professional experience. As a project manager, he has routinely proven himself proficient at effectively coordinating multi-disciplinary teams of coworkers and sub-consultants to deliver projects on time and within budget. Matt has been responsible for the completion of a wide variety of projects including Phase I and Phase II ESAs; underground storage tank (UST) site investigations and closure assessments; ODOT-compliant environmental assessments; wetland restorations; streambank restorations and stabilization; dredge material analysis; and storm water biocell construction. He has extensive experience planning, coordinating, and completing environmental site investigations and remediation at petroleum release sites, brownfield redevelopment sites, and Superfund sites. Matt is also a successful grant writer, combining strong writing and organizational skills with a solid understanding of regulatory issues and requirements.

## Specializations

### Environmental Site Investigations

Project manager, task manager, and/or field team leader for the environmental investigation and remediation phases at hundreds of sites including:

- Phase I and Phase II ESAs at suspected release sites;
- ODOT Regulated Materials Reviews (RMR) along transportation improvement areas; and,
- Petroleum bulk terminals, Superfund sites, and brownfield redevelopment sites.

Comprehensive understanding of ASTM Standards, Ohio's Voluntary Action Program (VAP) and ODOT RMR guidelines.

### Underground Storage Tanks

Managed or supervised numerous UST closure projects, associated site investigations, and remediation at petroleum-impacted sites. Well versed in Bureau of Underground Storage Tank Regulations (BUSTR) rules, guidance, and risk assessment procedures. Primary investigator or project manager for over 20 UST closures and/or investigations that received No Further Action (NFA) status from BUSTR.

### Brownfield Redevelopment

Comprehensive understanding of Ohio Environmental Protection Agency (EPA) VAP regulations. Assisted with the completion of VAP-compliant investigations, clean up, and preparation of NFA letter documentation for six VAP project sites that have received a Covenant Not-to-Sue (CNS) from the Ohio EPA. Managed numerous Phase I and II ESAs and remedial planning activities at brownfield sites targeted for revitalization in northwest Ohio.

### Grant Writing

Successful grant writer with particular involvement in brownfield assessment and cleanup grants under both the U.S. EPA's Brownfields Program and the Ohio Department of Development's Brownfield Remediation Program. Also successfully prepared 16 grant applications for Ohio's Abandoned Gas Station Cleanup program that resulted in over \$2.3M of grant funding awarded to 11 Ohio communities to address abandoned, blighted former gas station sites.



## Specializations

Environmental Site Investigations

Underground Storage Tanks

Brownfield Redevelopment

Ecological Restoration

Grant Writing

## Education

MS, Geology, Bowling Green State University

BS, Environmental Science, Bowling Green State University

## Certifications / Affiliations

Certified Professional Geologist (CPG), American Institute of Professional Geologists - Ohio, (No. CPG-11163)

Michigan Certified Underground Storage Tank Professional, No. 1064

OSHA 40-Hour HAZWOPER and Annual 8-hour refresher; 10-Hour Construction Site Safety; 8-Hour Site Supervisor

ASTM Risk-Based Corrective Action (RBCA) at Petroleum Release Sites

Meets ODOT Prequalification Requirements for Regulated Materials Review (RMR)

## Years of Experience

With MSG	2013 - Present
Other Firms	2000 - 2013

# Matthew S. Pesci CPG



Associate / Senior Project Manager

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## Experience

### Environmental Site Investigations

#### Ohio EPA Level of Effort (LOE) Contract Projects – Statewide, Ohio

Project manager for assessment activities through the Ohio EPA's TBA program as well as emergency response, remedial planning, and drilling services in support of Ohio EPA's Site Investigation Field Unit (SIFU). Projects include ASTM and Ohio VAP-compliant Phase I ESAs; preparation of Sampling and Analysis Plans (SAPs); Phase II ESAs; asbestos inspections; geophysical surveys; universal waste surveys; RAPs; and drilling services.

#### ODOT Compliant ESA Screenings, Phase I ESAs, Phase II ESAs and RMR Screenings – Toledo, Napoleon, Norwalk, Waterville, and Defiance, Ohio

Project Manager and/or Primary Investigator for ODOT Compliant ESA Screenings, Phase I ESAs, Phase II ESAs and/or Regulated Materials Management (RMR) Screenings, for over 20 transportation improvement project areas.

#### Energy Development Projects – Oregon and Lordstown, Ohio

Successfully managed multi-disciplinary efforts to assist our clients with the development of the \$800M Oregon Clean Energy and \$890M Lordstown Clean Energy Center natural gas-fired power plant sites. Projects included Phase I and II ESAs; hydrogeological investigations; ecological assessments, delineations, and permitting; geotechnical investigations; geophysical investigations; asbestos surveys; ALTA/NSPS, boundary, and topographic surveying services; and, construction materials testing.

#### Former ACH Sandusky Plant Ohio VAP Project – Sandusky, Ohio

Task Manager and Lead Investigator for a detailed hydrogeological investigation completed at a 356-acre manufacturing facility to ensure that the underlying bedrock aquifer and off-Property locations were protected. The study demonstrated that shallow impacted groundwater would not migrate to off-Property locations and would not be drawn deeper into the aquifer. Also assisted in the preparation of the NFA letter documentation submitted to the Ohio EPA in support of a CNS request for the Property.

#### Bofors-Nobel Superfund Site - Muskegon, Michigan

Project involved investigations and oversight of remedial actions at a Superfund site. Field responsibilities included health and safety planning, contractor coordination, supervising drilling operations during site investigations, soil sampling, and leading field teams during quarterly low-flow groundwater sampling events. Also, responsible for maintaining strict quality control of sampling procedures and collecting field data to meet federal and state regulatory agencies' requirements. In addition, provided contractor oversight during remedial wetlands construction. (*previous employment*)

### Underground Storage Tanks

#### Former Citgo Gas Station – Castalia, Ohio

Project Manager for the implementation of a \$100,000 Ohio Abandoned Gas Station Cleanup Program grant awarded to the Erie County Land Reutilization Corporation to address orphan USTs at this abandoned gas station site. Project involved the removal of two gasoline USTs (10,000-gallon and 6,000-gallon), collection of closure samples in accordance with BUSTR protocols, completion of a BUSTR UST Closure Report, and completion of a BUSTR Tier 1 Investigation that resulted in two NFA letters being issued by BUSTR for the successful remediation of two active BUSTR releases at this facility.

#### Former Gasoline Station – 2060 Broadway Street, Toledo, Ohio

Project Manager for the implementation of a \$100,000 Ohio Abandoned Gas Station Cleanup Program grant awarded to the City of Toledo to address orphan USTs at this abandoned gas station site. Project involved the

# Matthew S. Pesci CPG



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## Associate / Senior Project Manager

removal of three gasoline USTs (1,000-gallon, 6,000-gallon, and 8,000-gallon), collection of closure samples in accordance with BUSTR protocols, completion of a BUSTR UST Closure Report, and completion of a BUSTR Tier 1 Investigation that resulted in two NFA letters being issued by BUSTR for the successful remediation of two active BUSTR releases at this facility.

### **Former Fulper's Auto – Vermilion, Ohio**

Project Manager for the implementation of a \$100,000 Ohio Abandoned Gas Station Cleanup Program grant awarded to the City of Vermilion to address a petroleum release at this abandoned gas station site. Project involved the completion of a BUSTR Tier 1 Delineation, preparation of an Interim Response Action (IRA) Notification, removal of 59 cubic yards of petroleum impacted soil from two excavations at the site, and completion of IRA confirmation sampling and reporting that resulted in a NFA letter being issued by BUSTR for the successful remediation of the active BUSTR release at this facility.

### **Former Sunoco Station – 1651 Tiffin Avenue, Sandusky, Ohio**

Project Manager for the implementation of two \$100,000 Ohio Abandoned Gas Station Cleanup Program grants awarded to the City of Sandusky to address orphan USTs at this abandoned gas station site. Project involved the removal of seven USTs (two, 8,000-gallon, four, 1,000-gallon and one 1,000-gallon), collection of closure samples in accordance with BUSTR protocols, completion of a BUSTR UST Closure Report, completion of a BUSTR Tier 1 Delineation, and completion of a BUSTR Tier 2 Evaluation that resulted in two NFA letters being issued by BUSTR for the successful remediation of two active BUSTR releases at this facility.

### **Former Clark Station – 4433 Woodville Road, Northwood, Ohio**

Project Manager for the implementation of a \$100,000 Ohio Abandoned Gas Station Cleanup Program grant awarded to the City of Northwood to address orphan USTs at this abandoned gas station site. Project involved the removal of four USTs (three, 7,500-gallon gasoline and one 1,000-gallon kerosene), collection of closure samples in accordance with BUSTR protocols, completion of a BUSTR UST Closure Report, and completion of a BUSTR Tier 1 Investigation that resulted in two NFA letters being issued by BUSTR for the successful remediation of two active BUSTR releases at this facility.

### **Former Nickel's Gulf Station – 3299 Port Clinton Road, Fremont, Ohio**

Project Manager for the implementation of a \$100,000 Ohio Abandoned Gas Station Cleanup Program grant awarded to the Sandusky County Land Reutilization Corporation to address orphan USTs at this abandoned gas station site. Project involved the demolition of the former service station building, removal of five USTs (two, 4,000-gallon gasoline; one, 6,000-gasoline; and two 550-gallon used oil), collection of closure samples in accordance with BUSTR protocols, and completion of a BUSTR UST Closure Report that resulted in a NFA letter being issued by BUSTR for the successful remediation of the active BUSTR release at this facility.

## Brownfield Redevelopment

### **UpTown Green Signature Park Ohio VAP Project – City of Toledo, Ohio**

Worked closely with the City of Toledo to revitalize a 2.5-acre former commercial and industrial brownfield property in Toledo's UpTown Neighborhood into a community park with sustainable storm water management features and a neighborhood fresh food market. Completed environmental assessments in accordance with Ohio's VAP and served as lead author in the preparation of the NFA letter documentation that resulted in a CNS from the Ohio EPA.

### **Former Sandusky Cabinets Ohio VAP Project – City of Sandusky, Ohio**

Worked closely with the City of Sandusky to revitalize a 1.7-acre former industrial brownfield property just two blocks from Sandusky Bay into a rejuvenated corner property suitable for the mixed commercial-residential use that the community envisioned. Completed environmental assessments and site remediation in accordance with Ohio's VAP

and served as lead author in the preparation of the NFA letter documentation that resulted in a CNS from the Ohio EPA.

### **US EPA Community-Wide Assessment Projects – Lucas County, Ohio**

Project Manager, Task Manager and/or Lead Investigator for grant-funded assessments at several strategic brownfield sites targeted for redevelopment in the Toledo area on behalf of the City of Toledo and its coalition grant partners (Toledo-Lucas County Port Authority, Lucas County Land Reutilization Corporation, and Metroparks Toledo). Projects have included Phase I and II ESAs; asbestos inspections; universal waste surveys; remedial action plans; preparation of asbestos abatement and building demolition specifications; community engagement plans; and brownfield site inventories.

### **US EPA Community-Wide Assessment Projects – Cuyahoga County, Ohio**

Project Manager for grant-funded assessments at several strategic brownfield sites targeted for redevelopment in Cuyahoga County, Ohio on behalf of the Cuyahoga County Land Reutilization Corporation. Projects have included Phase I ESAs, Phase II ESAs, asbestos inspections, and remedial planning.

### **US EPA Community-Wide Assessment Projects – Sandusky, Ohio**

Project Manager for grant-funded assessments at several strategic brownfield sites targeted for redevelopment in the City of Sandusky, Ohio on behalf of the City of Sandusky. Projects have included Phase I and II ESAs; asbestos inspections; remedial action plans; and development of a city-wide urban setting designation (USD).

### **US EPA Community-Wide Assessment Projects – Youngstown, Ohio**

Project Manager for grant funded assessments at several strategic brownfield sites targeted for redevelopment in the City of Youngstown, Ohio on behalf of the City of Youngstown. Projects have included Phase I and II ESAs; asbestos inspections; and remedial action plans.

## Ecological Restoration

### **Combined Disposal Facility #3 Dredge Material Analysis – Toledo, Ohio**

Project Manager for a comprehensive sediment characterization study of dredged material located within designated portions of the Toledo-Lucas County Port Authority's Facility #3 confined disposal facility (CDF). The project involved evaluating the chemical and geotechnical properties of the dredged material for beneficial reuse at projects throughout northwest Ohio.

### **Maumee River Streambank Stabilization and Restoration – Defiance, Ohio**

Project Manager for a Great Lakes Restoration Initiative (GLRI) funded project to stabilize and restore approximately 0.6-mile of streambanks along the north and south sides of the Maumee River in Defiance, Ohio. The project involved ecological and cultural resource assessments; permitting; topographic surveys; and design of bioengineering restoration techniques.

### **Blue Creek Conservation Area Wetland and Ditch Restoration – Whitehouse, Ohio**

Project Manager for two GLRI funded projects to restore and enhance the Blue Creek Conservation Area wetland system and a ditch (Mosquito Creek) that feeds the wetland. The project involved ecological assessments; permitting; topographic surveys; design of bioengineering restoration techniques; and beneficial reuse of sediment.

### **Belmont-Forest Biocells – Toledo, Ohio**

Project Manager for a GLRI funded project to construct two biocells on vacant lots to collect storm water from adjacent Belmont and Forest Avenues in Toledo, Ohio to improve water quality in the Lake Erie watershed by filtering

# Matthew S. Pesci CPG



Associate / Senior Project Manager

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sediment, pollutants, and nutrients from storm water; reduce flooding and stress on the storm water system; and, provide a landscape element to enhance these vacant properties into community assets.

## Grant Writing

### Ohio's Abandoned Gas Station Cleanup Program

Successfully prepared 16 grant applications for Ohio's Abandoned Gas Station Cleanup program that resulted in over \$2.3M of grant funding awarded to 11 Ohio communities to address abandoned, blighted former gas station sites.

### U.S. EPA Brownfields Program

Assisted the City of Toledo and its coalition partners – the Toledo-Lucas County Port Authority, Metroparks Toledo, Lucas County Land Bank, and ConnecToledo – with the successful development of a fiscal year 2022 \$500,000 grant from U.S. EPA to fund community-wide assessment and remedial planning activities.

Assisted the City of Sandusky with the successful development of a fiscal year 2022 \$500,000 grant from U.S. EPA to fund community-wide assessment and remedial planning activities.

### Ohio Department of Development's Brownfield Remediation Program

Assisted the Richland County Land Bank with the successful development of a \$3M grant from the Ohio Department of Development (DOD) to complete asbestos abatement, building demolition, and brownfield remediation activities at the former Westinghouse manufacturing facility in Mansfield, Ohio.

Assisted the Port Authority of Allen County with the successful development of an \$860,500 grant from the Ohio DOD to complete asbestos abatement, building demolition, and brownfield remediation activities at the former EDCO industrial site in Lima, Ohio.

Assisted the Growth Partnership for Ashtabula County with the successful development of an \$1.2M grant from the Ohio DOD to complete impacted soil removal and the installation of a vapor mitigation system at the Astatic property in Ashtabula, Ohio.

Assisted the Cuyahoga County Land Bank with the successful development of a \$68,475 grant from the Ohio DOD to complete environmental assessment activities at the former Bradbury Landfill site in Cuyahoga County, Ohio.

APPENDIX C  
LIMITATIONS OF PHASE I ESAS



## LIMITATIONS OF PHASE I ENVIRONMENTAL ESAs

The Mannik & Smith Group, Inc. (MSG) prepared the evaluations and opinions presented in the preceding report in general accordance with the methodologies and protocols set forth in the ASTM-International Standard Practice E1527-13 and E1527-21, commensurate with a standard of care afforded by other Environmental Professionals at the time this assessment was completed and in the region of the country where this work was performed. This Phase I Environmental Site Assessment (ESA) report been prepared to assist our Client with making a reasonable assessment of recognized environmental conditions (RECs)<sup>1</sup>, controlled recognized environmental conditions (CRECs)<sup>2</sup>, historical recognized environmental conditions (HRECs)<sup>3</sup>, and/or *de minimis* conditions<sup>4</sup> associated with the Site as defined in the preceding report and is intended to reduce, but not necessarily eliminate uncertainty regarding the likelihood for RECs to exist on the Site. The results of this Phase I ESA should not and cannot be construed as a certification as to the presence or absence of environmental contamination at the Site, but rather, as a diligent and prudent review of available information within an established work scope, timeframe, and budget.

During the course of this property-specific assessment, various documents, data and information published and obtained from private organizations, as well as from municipal, state, and federal agencies have been relied upon. No independent verification or confirmation with regard to the accuracy of these documents, data, and information has been made, and MSG neither warrants nor guarantees the accuracy or completeness of the information provided by any outside source.

This Phase I ESA report is provided for the exclusive use of our Client, as named within the preceding report. This Client has the right to reproduce this Phase I ESA report, in whole or in part, but no other party may rely upon the contents of this report without the expressed written consent of MSG. The reliance of any and all persons, parties, entities, and/or organizations on the contents of the preceding report is subject to MSG's Standard Terms and Conditions, unless otherwise specifically agreed to in writing. A copy of MSG's Standard Terms and Conditions can be obtained by contacting MSG.

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<sup>1</sup> A REC is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to a release to the environment; (2) under conditions indicative a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

<sup>2</sup> A CREC is defined as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g., property use restrictions, activity and use limitations, institutional controls or engineering controls).

<sup>3</sup> A HREC is defined as a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (e.g., property use restrictions, activity and use limitations, institutional controls or engineering controls). HRECs are generally not considered RECs.

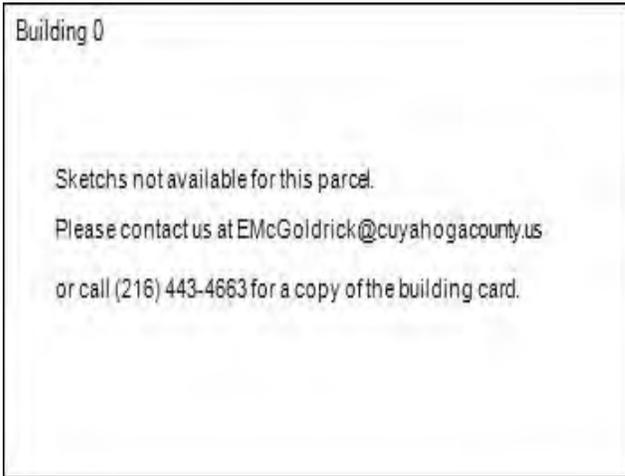
<sup>4</sup> A *de minimis* condition is defined as a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. *De minimis* conditions are not RECs.

APPENDIX D  
PARCEL INFORMATION AND CITY DIRECTORIES



**Owner** CUYAHOGA COUNTY LAND REUTILIZATION CORPORATION  
**Address** 3203 W 71 ST  
 CLEVELAND, OH. 44102  
**Land Use** () E -  
**Legal Description** 34 S/L 31 TO 34 WP 39 46 47 ALL 40 TO 45 ALL 107 SP 108 0037 NEP 109 ALL & PT VAC ST 00628040 00628041 00628050  
**Neighborhood Code** 71306

### SKETCH



### MAP VIEW



### BUILDING INFORMATION

#### LAND

Code	Frontage	Depth	Acreage	Sq Ft
PRM			1.28	55,610

#### VALUATION

2021 Values	Taxable Market Value	Exempt Market Value	Abated Market Value	Assessed Taxable Value
Land Value	\$0	\$56,200	\$0	\$0
Building Value	\$0	\$0	\$0	\$0
Total Value	\$0	\$56,200	\$0	\$0
Land Use		6210		EXEMPT COUNTY LANDBANK

#### PERMITS

Tax Year	Reason	Tax Change	Exempt Change	Percent Complete	Reinspect	Notes
2018	10 - Razing	(\$45,000)	\$	50%	Yes	DEMO BUILDING 50% COMPLETE 1-1-2018 REINSPECT: 2019 FOR COMPLETE RAZING [TAXBLD -45,000]
2017	30 - New Construction	\$	\$	100%	No	BOARD-UP COMPLETE NO VALUE CHANGE 1-1-2017
2016	10 - Razing	(\$216,100)	\$	100%	No	2016 NEW CONSTRUCTION - PERMIT#15032609 - VERY POOR CONDITION GUTTED INTERIOR APPEARS FIRE DAMAGED. REDUCED BUILDING VALUE DUE TO CONDITION. (-216,100) (JJC)

#### IMPROVEMENTS

Type	Description	Size	Height Depth
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#### SALES

Date	Buyer	Seller	Price
7/21/2022	CUYAHOGA COUNTY LAND REUTILIZATION CORPORATION	STATE OF OHIO FORF CV # 922832	\$0
8/30/2021	STATE OF OHIO FORF CV # 922832	W 71st Assoc	\$0
12/27/2001	Cala, Joseph A.	W 71st Assoc	\$365,000
1/1/1987	W 71st Assoc		\$0

#### Taxes

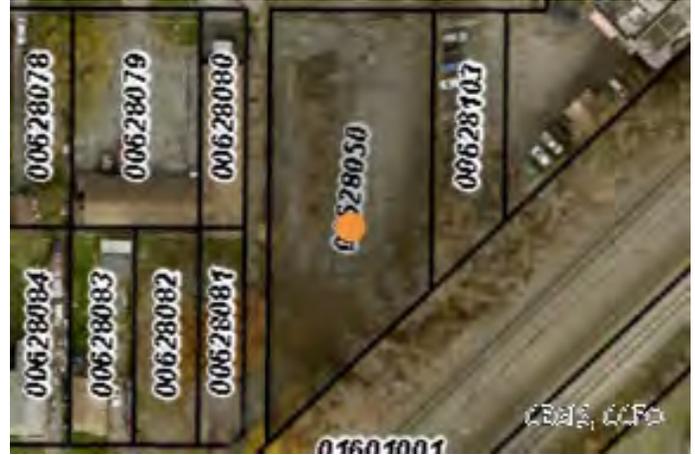
2021 Taxes	Charges	Payments	Balance Due
Tax Balance Summary	\$0.00	\$0.00	\$0.00

Owner: CALA, JOSEPH A.  
 Address: DEARBORN AVE  
 CLEVELAND, OH. 44102  
 Land Use: (3000) I - VAC INDUSTRIAL LAND  
 Legal Description: 00628038  
 Neighborhood Code: 71306

**SKETCH**



**MAP VIEW**



**BUILDING INFORMATION**

**LAND**

Code	Frontage	Depth	Acreage	Sq Ft
PRM	104	270	0.51	22,250

**VALUATION**

2021 Values	Taxable Market Value	Exempt Market Value	Abated Market Value	Assessed Taxable Value
Land Value	\$22,400	\$0	\$0	\$7,840
Building Value	\$0	\$0	\$0	\$0
Total Value	\$22,400	\$0	\$0	\$7,840
Land Use	3000			INDUSTRIAL VACANT LAND

**PERMITS**

Tax Year	Reason	Tax Change	Exempt Change	Percent Complete	Reinspect	Notes
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**IMPROVEMENTS**

Type	Description	Size	Height Depth
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**SALES**

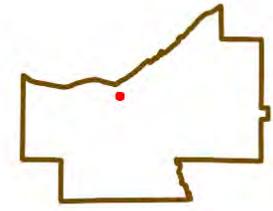
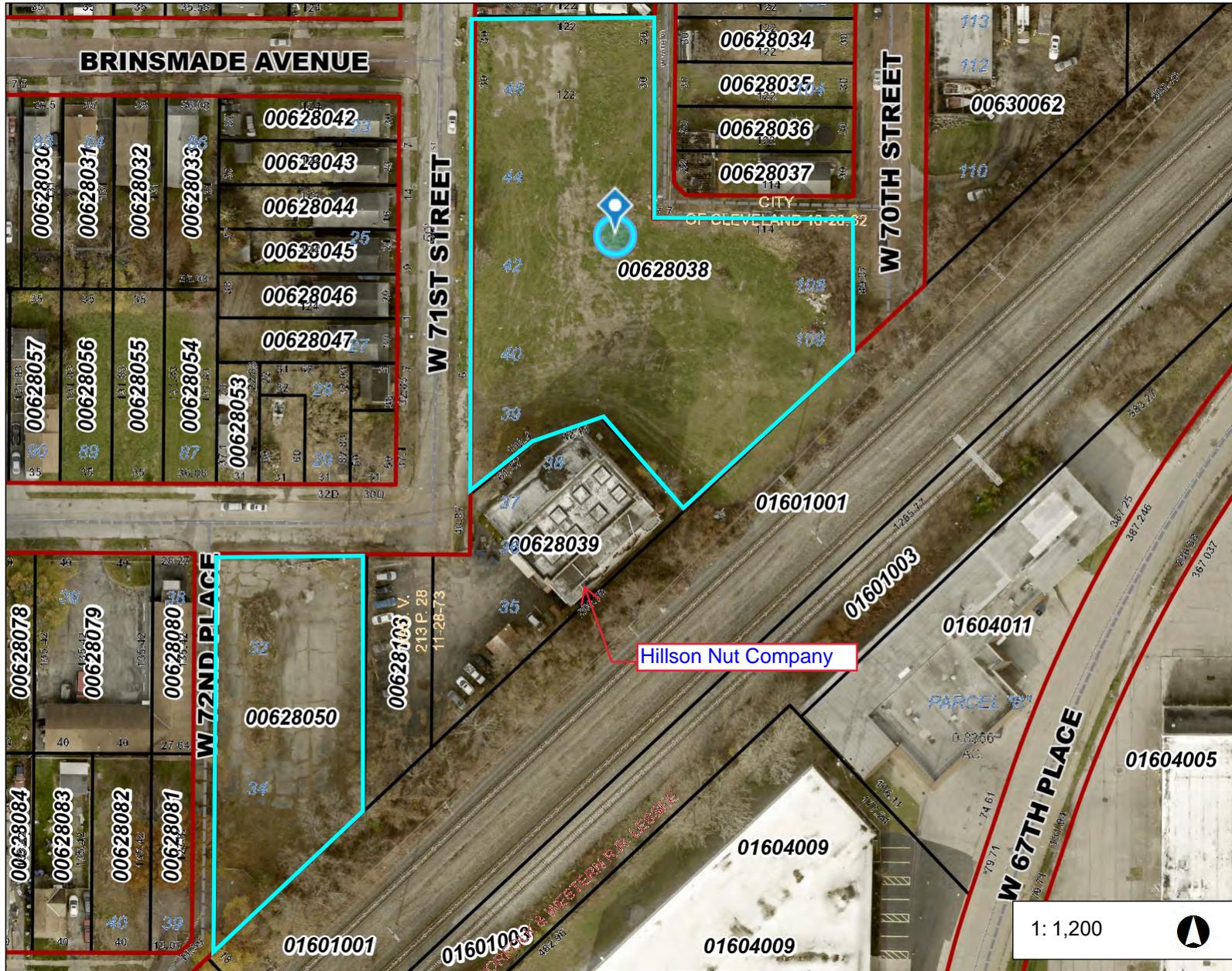
Date	Buyer	Seller	Price
12/27/2001	CALA, JOSEPH A.	W 71st Assoc	\$365,000
1/1/1987	W 71st Assoc		\$0

**Taxes**

2021 Taxes	Charges	Payments	Balance Due
Tax Balance Summary	\$3,580.79	\$0.00	\$3,580.79



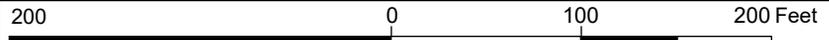
# Exhibit 3 - Property Location Map



Date Created: 11/29/2022

### Legend

- Municipalities
- Right Of Way
- Platted Centerline
- Parcel
- Property Parcels



Projection:  
WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.  
**THIS MAP IS NOT TO BE USED FOR NAVIGATION**



# Chain of Title and Environmental Lien/Activity and Use Limitations Search Results

Prepared for: Historical Information Gatherers, Inc.  
HIG Project No. 2071190

Prepared by: The Fox Group, LLC  
TFG File No. T8145

Subject Property: HILLSON NUT CO.  
4303 WEST 71<sup>ST</sup> STREET  
CLEVELAND, OHIO

Public records on the subject real property identified above revealed the following information effective to January 12, 2023:

## Subject Property Description

**Location:** Cuyahoga County

**Land/Description:** Parcel of Land  
Parcel No.006-28-038

**Location:** Cuyahoga County

**Land/Description:** Parcel of Land  
Parcel No.006-28-050

## Deed1/Parcel No. 006-28-038; 006-28-050

**Grantee(s):** Cuyahoga County Land Reutilization Corp.  
**(Buyer)**

**Grantor(s):** Bryan Dunn, Deputy County Fiscal Officer  
**(Seller)**

**Conveys:** Parcel of Land

Date Executed: July 18, 2022  
Date Recorded: July 21, 2022  
Document Number: 202207210680

Note: Copy attached as Exhibit "A".



**Deed 2/Parcel No. 006-28-038; 006-28-050**

**Grantee(s):**           **Treasurer of Cuyahoga County, Ohio**  
**(Buyer)**

**Grantor(s):**           **Joseph A. Cala**  
**(Seller)**

**Conveys:**               Parcel of Land

Date Executed:       August 30, 2021  
Date Recorded:       August 30, 2021  
Document Number:   202108300560

**Deed 3/Parcel No. 006-28-038; 006-28-050**

**Grantee(s):**           **Joseph A. Cala**  
**(Buyer)**

**Grantor(s):**           **West 71<sup>st</sup> Street Associates**  
**(Seller)**

**Conveys:**               Parcel of Land

Date Executed:       December 20, 2001  
Date Recorded:       December 27, 2001  
Document Number:   200112271458

**Deed 4/Parcel No. 006-28-038; 006-28-050**

**Grantee(s):**           **West 71<sup>st</sup> Street Associates**  
**(Buyer)**

**Grantor(s):**           **Rohco, Incorporate**  
**(Seller)**

**Conveys:**               Parcel of Land

Date Executed:       January 2, 1985  
Date Recorded:       February 22, 1985  
DBV/PG:               85-0742/54



**Deed 5/Parcel No. 006-28-038; 006-28-050**

**Grantee(s):** Eohco, Inc.  
**(Buyer)**

**Grantor(s):** R. O. Hull & Company Inc.  
**(Seller)**

**Conveys:** Parcel of Land

Date Executed: May 11, 1979  
Date Recorded: May 17, 1979  
DBV/PG: 15034/471

**Deed 6/Parcel No. 006-28-038; 006-28-050**

**Grantee(s):** R. O. Hull & Company Inc.  
**(Buyer)**

**Grantor(s):** Robert C. McDowell and Lorraine McDowell  
**(Seller)**

**Conveys:** Parcel of Land

Date Executed: November 29, 1962  
Date Recorded: November 29, 1962  
DBV/PG: 10651/251

**Deed 7/Parcel No. 006-28-038; 006-28-050**

**Grantee(s):** Robert C. McDowell and Lorraine McDowell  
**(Buyer)**

**Grantor(s):** Robert A. McDowell  
**(Seller)**

**Conveys:** Parcel of Land

Date Executed: December 31, 1948  
Date Recorded: December 31, 1948  
DBV/PG: 6662/81



### **Examiner's Note**

Public Records of Cuyahoga County, Ohio were searched from January 1, 1940 to January 12, 2023. No other deeds vesting title in the subject property were found of record during the period searched. Parcel number 006-28-050 was combined with Parcel 006-28-050.

### **Environmental Liens**

Public Records of Cuyahoga County, Ohio were searched from January 1, 1940 to January 12, 2023. No environmental liens on the subject property were found of record during the period searched.

### **Activity or Use Limitations**

Public Records of Cuyahoga County, Ohio were searched from January 1, 1940 to January 12, 2023. No activity or use limitations on the subject property were found of record during the period searched.

### **Easements**

Public Records of Cuyahoga County, Ohio were searched from January 1, 1940 to January 12, 2023. No easements on the subject property were found of record during the period searched.

### **Legal Description**

Legal description included on Exhibit "A".

## **DISCLAIMER**

*This report was prepared by The Fox Group, LLC for Historical Information Gatherers, Inc. (HIG). The Fox Group, LLC is a licensed and registered legal entity in the State of Louisiana. The Fox Group, LLC reports contain public record information, which its accuracy cannot be guaranteed. Therefore, HIG's liability and the liability of The Fox Group, LLC for this report extends only to the fee charged for this report. The Fox Group, LLC follows all regulated Federal and State laws governing the research conducted. This report should not be interpreted to qualify for any credit, insurance or employment decisions pertaining to the Fair Credit Reporting Act (15 USC 1681, etseq). This report should not be considered a certificate or guarantee of title.*

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EXHIBIT A

CUYAHOGA COUNTY FISCAL OFFICER  
006-28-038 *Michael Chambers* 7/21/2022 E  
I-07212022-13  
CUYAHOGA COUNTY LAND R Tax Dist. 3100  
Fiscal Officer - EX LUC: 3000 EX: A  
Sale Amnt: \$ 0.00 LAND: 58,200  
Conv. Fee: \$ 0.00 BLDG: 0  
CASH TOTAL: 58,200



CUYAHOGA COUNTY  
OFFICE OF FISCAL OFFICERS - 4  
DEAU 7/21/2022 1:42:10 PM  
**202207210680**

## *Fiscal Officer's Deed*

(FORFEITED LAND SALE)

KNOW ALL MEN THESE PRESENTS: That whereas, the Real Estate hereinafter described, having become and being delinquent for non-payment of taxes, assessments, penalties, interest and costs, was forfeited to the State of Ohio, as will fully appear by the records of the Cuyahoga County Court of Common Pleas or the Cuyahoga County Board of Revision or the Fiscal Officer of Cuyahoga County, Ohio; and

WHEREAS, said County Fiscal Officer, after the lapse of time as provided by law and pursuant to ORC 5722.01, et seq. and ORC 5723.04(B) has received a duly attested written request from the Cuyahoga County Land Reutilization Corporation, enabled by S.B. 353 of the 127<sup>th</sup> Ohio General Assembly, and Incorporated by the Cuyahoga County Treasurer on or about April 16, 2009 pursuant to Resolution 091413, adopted by the Cuyahoga County Commissioners of Ohio, April 16, 2009, and designating the Cuyahoga County Land Reutilization Corporation as agent of Cuyahoga County under ORC 5722.02 pursuant to Resolution 091709, adopted April 30, 2009 by the Cuyahoga County Commissioners; and approved and authorize the execution and delivery of an agreement and plan with the Cuyahoga County Land Reutilization Corporation under ORC 5722.02 pursuant to Resolution 092456 adopted June 4, 2009 by the Cuyahoga County Commissioners.

THEREUPON, on the 16 day of July, in the Year 2022 Cuyahoga County Land Reutilization Corporation did request in writing that the Real Estate hereinafter described be directly conveyed to the Cuyahoga County Land Reutilization Corporation, the Cuyahoga County Fiscal Officer, acting as an agent of the State of Ohio, then and there conveyed said real estate to the said Cuyahoga County Land Reutilization Corporation as prescribed in ORC 5723.04(B) and as otherwise prescribed by law;

NOW THEREFORE, I, MICHAEL CHAMBERS, as Fiscal Officer of Cuyahoga County, Ohio, acting as agent of the State of Ohio, in consideration of the premises and the agreement of the Cuyahoga County Land Reutilization Corporation to receive the Real Estate and to take and hold possession thereof and the additional sum of Forty Five Dollars (\$45.00), as prescribed by law in ORC 5723.12, do hereby GRANT, BARGAIN, SELL and CONVEY unto the said Cuyahoga County Land Reutilization Corporation, its successors and assigns forever, the Real Estate conveyed as aforesaid and further described in Exhibit A hereto incorporated herein as if fully re-written herein.:

Also known as: 3203 W. 71<sup>st</sup> St., Cleveland, OH 44102

**PERMANENT PARCEL NO.: 006-28-038**

*TO HAVE AND TO HOLD said premises, with all the privileges and appurtenances thereunto belonging, to the said Cuyahoga County Land Reutilization Corporation, its successors and assigns forever.*

*EXECUTED BY Michael Chambers, Fiscal Officer of Cuyahoga County, Ohio, acting as agent of the State of Ohio and by and through the duly appointed Deputy Fiscal Officer below, have hereunto set my hand, this 18<sup>th</sup> day of July in the Year 2022.*



Deputy County Fiscal Officer  
Of Cuyahoga County, Ohio  
Acting as Agent of the State of Ohio.

*This deed prepared by:  
Robert P. Rink, Esq.  
812 Huron Road, E., Suite 800,  
Cleveland, Ohio 44115*

**The State of Ohio, CUYAHOGA County, ss.**

*The foregoing instrument was acknowledged before me this 18<sup>th</sup> day of July in the Year 2022 by Bryan Dunn, Deputy County Fiscal Officer, acting as agent of the State of Ohio.*



Notary Public

AUDREY L. RODRIGUEZ  
NOTARY PUBLIC • STATE OF OHIO  
Recorded in Cuyahoga County  
My commission expires Feb. 18, 2024

**EXHIBIT A**

**Legal Description of PPN 006-28-038**

**Description of land**

**PARCEL NO. 1:**

Situated in the City of Cleveland, County of Cuyahoga and State of Ohio:

And known as being Sublots Nos. 40, 41, 42, 43, 44, 45, 107, 108 and part of Sublots Nos. 37, 38, 39, 109 and part of a 12 foot alley, now vacated, and part of West 70<sup>th</sup> Place, now vacated, in the James M. Hoyt and Son's Allotment of part of Original Brooklyn Township Lot No. 34, as shown by the recorded plat in Volume 5 of Maps, Page 55 of Cuyahoga County Records and together forming a parcel of land, bounded and described as follows:

Beginning on the Easterly line of West 71<sup>st</sup> Street (formerly Lindsley Street), at the Northwesterly corner of said Sublot No. 45;

Thence Southerly along the Easterly line of West 71<sup>st</sup> Street, 264.08 feet to the most Southerly corner of land conveyed to Robert A. McDowell by deed dated May 20, 1947 and recorded in Volume 6408, Page 510 of Cuyahoga County Records; Thence Northeasterly along the Southeasterly line of land so conveyed to Robert A. McDowell, 100.40 feet to an angle therein;

Thence Southeasterly along the Southwesterly line of land so conveyed to Robert A. McDowell, and along the Northeasterly line of land conveyed to the Cleveland Union Terminals Company, by deed dated August 1, 1947 and recorded in Volume 6408, Page 508 of Cuyahoga County Records, 105.57 feet to the Northwesterly line of the Cleveland, Columbus, Cincinnati and Indianapolis Railroad Company's Right of Way; Thence Northeasterly along the Northwesterly line of said Right of Way, 155.15 feet to the Westerly line of West 70<sup>th</sup> Street (formerly Leyden Street); Thence Northerly along the Westerly line of West 70<sup>th</sup> Street, 93 feet 4-1/2 inches to the Southerly line of a 12 foot Alley; Thence Westerly along the Southerly line of said 12 foot alley which is also the Northerly line of said Sublot No. 107, 114 feet to an angle therein; Thence Southwesterly along a Northwesterly line of said Sublot No. 107 to the Northerly line of that part of West 70<sup>th</sup> Place, vacated by Ordinance No. 1770-46 of the City of Cleveland; Thence Westerly along the Northerly line of that part of West 70<sup>th</sup> Place, now vacated by said Ordinance No. 1770-46 to the Easterly line of said Sublot No. 43; Thence Northerly along the Easterly line of said Sublots Nos. 43, 44 and 45, which is also the Westerly line of West 70<sup>th</sup> Place, to the Northeasterly corner of said Sublot No. 45; Thence Westerly along the Northerly line of said Sublot No. 45, 122 feet to the place of beginning, be the same more or less, but subject to all legal highways; provided however, there is hereby excepted and excluded from the aforesaid real estate the following described strip of land, being a part of said Sublot No. 107:

Beginning on the Westerly line of West 70<sup>th</sup> Street at its intersection with the Northerly line of said Sublot No. 107 being also the Southerly line of an alley 12 feet in width; Thence Westerly along the Southerly line of said 12 foot alley, 114 feet to an angle; Thence Southwesterly along the general

Southerly line of said 12 foot alley, 5.66 feet; Thence Easterly 118 feet to a point in said Westerly line of West 70<sup>th</sup> Street, which point is 4 feet Southerly measured along said Westerly line from its intersection with the Southerly line of said 12 foot alley; Thence Northerly 4 feet to the place of beginning.

**PARCEL NO. 2:**

Situated in the City of Cleveland, County of Cuyahoga and State of Ohio:

And known as being the Westerly 104 feet of Sublots Nos. 31, 32, 33 and 34 in James M. Hoyt's Allotment of part of Original Brooklyn Township Lot No. 34 as shown by the recorded plat in Volume 5 of Maps, Page 55 of Cuyahoga County Records and together forming a parcel of land having a frontage of 269.58 feet on the Easterly side of West 72<sup>nd</sup> Place, 104 feet on the Northerly line which is also the Southerly line of Dearborne Avenue, S.W., about 143.41 feet deep on the Southeasterly line which is also the Northwesterly line of the New York Central Right of Way and having a rear line of 171.15 feet, as appears by said plat.

**PARCEL No. 3:**

Situated in the City of Cleveland, County of Cuyahoga and State of Ohio:

And known as being Sublots Nos. 46 AND 47 IN James M. Hoyt and Son's Allotment of part of Original Brooklyn Township Lot No. 34, as shown by the recorded plat in Volume 5 of Maps, Page 55 of Cuyahoga County Records, and together forming a parcel of land having a frontage of 60 feet on the Easterly side of West 71<sup>st</sup> Street (formerly Lindsley Street), and extending back of equal width 122 feet to the Westerly line of 70<sup>th</sup> Place, (formerly Lindsley Alley), as appears by said plat.

[Legal Description Continues on Next Page]

PARCEL NO. 4:

Situated in the City of Cleveland, County of Cuyahoga and State of Ohio:

And known as being part Sublot Nos. 38 and 39 in James M. Hoyt and Son's Allotment of a part of Original Brooklyn Township Lot Number 34 as shown by the recorded plat in Volume 5 of Maps, Page 55 of Cuyahoga County Records and being bounded and described as follows:

Beginning at a point in the intersection of the centerlines of West 71<sup>st</sup> Street, 50 feet wide, and Dearborne Avenue, 50 feet wide; Thence North 90 degrees 00' 00" East and perpendicular to the centerline of West 71<sup>st</sup> Street, 50 feet wide a distance of 25.00 feet to a point in the East line of West 71<sup>st</sup> Street; Thence North 00 degrees 00' 00" East along the aforesaid East line of West 71<sup>st</sup> Street, 50 feet wide a distance of 15.87 feet to a point therein; Thence North 46 degrees 28' 00" East a distance of 100.40 feet to the Northeast corner of land conveyed to the Hillson Nut Company, and also the principal place of beginning; Thence South 43 degrees 32' 00" East along Hillson's Northeasterly line a distance of 16.50 feet to a point therein; Thence South 69 degrees 29' 20" West a distance of 42.19 feet to a point in Hillson's Northwesterly line; Thence North 46 degrees 28' 00" East along aforesaid Hillson's Northwesterly line a distance of 38.83 feet to a point being the principal place of beginning.

Be the same more or less, but subject to all legal highways. Also subject to zoning ordinances if any.

Parcel No.: 006-28-038/040/041/050/101

Commonly known as: 3203 West 71<sup>st</sup> Street, Cleveland, Ohio 44102

# Research Summary for City Directory Abstract

**Site Location**

Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH

**Conducted For**

The Mannik & Smith Group, Inc.  
1800 Indian Wood Circle  
Maumee, OH

**HIG Project #**

2071190

**Client Project #**

ODAS0003

**Date Created**

01/09/2023



Historical  
Information  
Gatherers

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HIG has produced a city directory abstract for one or more streets associated with the site location indicated above. The publications used to create the CD Abstract are listed below.

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The information below is taken directly from the city directory books. The following are definitions as they are found in the Haines books:

XXXX = is no phone, no people or non-published phone.

600 XXXX = Correct address only. No other information.

X Streetname = intersecting cross street

**Publication year, publisher and title**

2018 Haines Cleveland

2011 Haines Cleveland

2006 Haines Cleveland

2000-01 Haines Cleveland

1995-96 Haines Cleveland

1990 Haines Cleveland

1985 Haines Cleveland

1980 Haines Cleveland

1975 Haines Cleveland

1970 Haines Cleveland

1966 Haines Greater Cleveland

1960 Haines Greater Cleveland

**Abstract Section 1- This section includes the city directory data sorted by address.**

**3111 West 71st Street**

2018	CHAMBERS Kelly
2018	KLEIN April
2011	CHAMBERS Dorothy
2011	ROBERTS Cherrise
2011	THORTON Juanita
2006	CHAMBERS Dorothy
2000-01	CHAMBERS Dorothy
1995-96	WHYEL Geo E
1990	WHYEL Geo E
1985	WHYEL GEO E
1980	XXXX
1975	XXXX
1966	PALGUT THOS
1960	SEEBER DAVID R

**3112 West 71st Street**

2018	JONES Jennifer
2011	HASROUNI Elias
2006	DACEY Anna
2000-01	ANNA Marie
2000-01	DACEY J
1995-96	DACEY J
1990	DACEY J
1985	DACEY J
1980	DACEY J
1975	DACEY JOHN J
1970	NAUMAN HELEN
1966	NAUMAN HELEN
1960	PARKS DAN

**3113 West 71st Street**

2018	SANTOS Teah
2011	CHAMBERS Thomas C Jr
2006	XXXX
2000-01	ANDERSON Maritta
1990	VEALEY D

1980	XXXX
1975	TOKAR MICHAEL
1970	CHARRON L MRS
1966	XXXX
1960	WARREN MARGARET L

#### 3116 West 71st Street

2018	PERRY Mia
2011	PERRY Timothy
2006	PERRY Timothy
2000-01	PERRY Timothy
1990	XXXX
1985	XXXX
1980	SMITH S B
1975	BRIGGS JERRY W
1975	HATHWAY LAWRENCE
1966	BRIGGS SHIRLEY
1966	KOWALSKI ANTHONY

#### 3117 West 71st Street

2018	HARDMAN Arthur
2018	SURMA Edward
2011	HARDMAN N
2006	LAMB John
2000-01	KARN Patrick
1990	KARIN Patk
1985	GAINER PAUL
1980	GAINER PAUL
1975	GAINER PAUL
1970	CAINER PAUL
1966	GAINER PAUL
1960	GAINER PAUL

#### 3120 West 71st Street

2018	ROBINSON Robert
2018	THORNE Gloria
2011	THORNE George
2006	ROBINSON Robert
2006	THORNE George
2000-01	MARTHA V

1990	XXXX
1985	PETERSON M V
1980	PETERSON M V
1975	PETERSON M V
1970	XXXX
1966	XXXX
1960	MFRGL GEO

### 3122 West 71st Street

2018	ROBINSON Maggie
2018	THORNE Geore
2011	HARTE Jason
2011	ROBINSON Maggie
2011	THORNE George
2006	THORNE George
2000-01	THORNE George
1990	CECIL M B
1985	CECIL M B
1980	CECIL M B
1975	CECIL M B
1970	CFCIL M B
1966	CECIL M B
1960	CECIL MARCELLA B

### 3123 West 71st Street

2018	ACREE Shelia
2011	ACREE Gary
2011	DORSEY Nanyamka
2006	ACREE Shelia
2000-01	CONNELLY Albert
2000-01	LEIHENSEDER V
1995-96	LEIHENSEDER V
1990	XXXX
1985	SOLIMAN FREDRICK
1980	SOLIMAN FREDRICK
1975	PHILLIPS BURL E
1966	FULOP JULIUS
1960	GAINER EDW F

### 3127 West 71st Street

2018	SANOVICH Peter
2018	TORRES Javier
2011	SANOVICH Peter
2006	MOSES Anthony
2000-01	MOSES Anthony
1995-96	MOSES Anthony
1990	MOSES Anthony
1985	MOSES ANTHONY
1980	MOSES ANTHONY
1975	MOSES ANTHONY
1970	MOSFS ANTHONY
1966	MOSES ANTHONY
1960	FELLER MICHAEL

#### 3129 West 71st Street

2018	KARN Jerome
2011	MENCINI James
2006	MENCINI James
2000-01	MENCINI James
2000-01	SANOVICH Louis
1995-96	SANOVICH Louis
1990	XXXX
1980	XXXX
1975	MINARCHIO RUSSELL
1970	MINARCHIO RUSSFL
1966	MINARCHIO RUSSELL
1960	FLYNT S

#### 3134 West 71st Street

2018	IRWIN Jeffrey
2011	IRWIN Jeffrey
2006	IRWIN Charlene
2000-01	PENNY B B
1995-96	PENNEY B B
1990	PENNEY B B
1985	PENNEY B B
1980	CISMAR MARGARET
1980	PENNEY B B
1975	CISMAR MARGARET

1975	PENNEY CHAS F
1970	CISMAR MARGARET
1970	PENNEY CHAS F
1966	STRAUB EUGENE
1960	STRAUB EUGENE

#### 3135 West 71st Street

2018	SANOVICH Frank
2018	SANOVICH Rose
2018	SANOVICH Sarah
2011	SANOVICH Janet
2006	SANOVICH Frank
2000-01	SANOVICH Frank
1995-96	SANOVICH Frank
1990	SANOVICH Frank
1985	SANOVICH FRANK
1980	SANOVICH PETER P
1975	SANOVICH PETER P
1970	SANOVICH PETER P
1966	FREEDMAN FREDK W
1960	FREEDMAN FREDK W

#### 3136 West 71st Street

2018	SCHMIDT Ronald E
2011	SCHMIDT Ronald E
2000-01	SCHMIDT Ronald E
1995-96	SCHMIDT Ronald E
1990	SCHMIDT Ronald E
1985	XXXX
1980	RICHARDSON OWEN
1975	RICHARDSON OWEN
1970	RICHARDSON OWEN
1966	RICHARDSON OWEN
1960	COCHILLA STEVE

#### 3137 West 71st Street

2018	SANOVICH Louis
2011	SANOVICH Norma
2006	SCHERER Norman
2000-01	SCHERER Norman

1995-96	SCHERER Norman
1990	SCHERER Norman
1985	SCHERER NORMAN
1980	SCHERER NORMAN
1975	SCHEERER NORMAN
1970	SCHFRFR NORMAN
1966	SCHERER NORMAN
1960	SANSBURY FRANK P

#### 3141 West 71st Street

2011	SANOVICH Louis
2006	SCHMIDT Ronald E
2006	SCHERER Norman
1995-96	SANOVICH N
1990	XXXX
1985	XXXX
1980	BURNS FRED A
1975	BURNS FRED A
1970	XXXX
1966	XXXX

#### 3142 West 71st Street

2018	GARRA Sarina
2006	XXXX
2000-01	BARCELA Andrew J
1995-96	XXXX
1990	PEKAREK Jerry J
1985	SZKUP ANDREW
1980	LANDIS DONALD JR
1980	MASTERSON BRIAN
1975	MASTERSON BRIAN
1970	BLACKWOOD ROY F
1970	MASTERSON BRIAN
1970	PEKAREK GEO F
1966	ANDERSON FRANK E
1966	MASTERSON BRIAN
1966	PEKAREK GEO E
1960	MASTERSON BERNARD

#### 3143 West 71st Street

2018	DAVIS Dominique
2018	OLIVER Douglas
2011	DAVIS Daryl
2006	XXXX
2000-01	XXXX
1995-96	XXXX
1990	XXXX
1985	XXXX
1980	ZIRWES RUTH E
1975	ZIRWES RUTH E
1970	ZIRWFS RUTH E
1966	ZIRWES RUTH E
1960	ZIRWES RUTH E

### 3146 West 71st Street

2018	FARRIER Mona
2018	MORALES Yessenia
2011	BARCELA Andrew
2011	FARRIER Mona
2011	RODRIGUEZ Erica
2011	SERRANO Francheska
2006	BARCELA Andrew
2006	SILVA Ariel
2000-01	WRIGHT Paul D
1995-96	WRIGHT Paul D
1990	WRIGHT Paul D
1985	WRIGHT PAUL D
1980	WRIGHT PAUL D
1975	WRIGHT PAUL D
1970	GROOMS LEROY
1966	GAMBLE JOHN C
1960	JUNKINS WALTER E
1960	STECER DC DEAN

### 3147 West 71st Street

2018	OLAVARRIA Noma
2011	XXXX
1980	XXXX
1975	STANSBERRY HOWARD

1970	STANSBERRY HOWARD
1966	STANSBERRY HOWARD
1960	WAGNER JOS

### 3148 West 71st Street

2018	CORDERO Nancy
2011	VILLAFANE Edwin
2006	KOLTHOFF William
2000-01	KOLTHOFF Wm
1995-96	KOLTHOFF Wm
1990	KOLTHOFF Wm
1985	KOLTHOFF D E
1985	KOLTHOFF DOROTHY
1980	KOLTHOFF DOROTHY
1975	KOLTHOFF DOROTHY
1975	PETERS NORMAN E
1970	HOLT JOHN
1970	KOLTHOFF DOROTHY
1966	KOLTHOFF DOROTHY
1966	PARODA STEPHEN A JR
1960	KOLTHOFF DOROTHY

### 3151 West 71st Street

2018	MILAN Charlene
2018	WILLIAMS Charlene
2011	MILAM Clayton
2011	WILLIAMS Charlene
2006	WILLIAMS Charlene
2000-01	MILAM Catherine
2000-01	WILLIAMS Charlene
1995-96	XXXX
1990	WILLIAMS Charlene
1990	WILLIAMS Chas E
1985	FECKLEY DAVID
1980	FECKLEY DAVID
1975	KOHL E
1970	KOHL E
1966	BROOKS SUSAN MRS
1966	STANSBERRY WM P

1960 SLEDZIEWSKI THADEUS

3152 West 71st Street

2018 ALLEN Dennis  
2018 ARROYO Sandra  
2011 YONTS S  
2006 ARROYO Angel  
2006 CABAN Andrea  
2000-01 RYAN Kevin  
1995-96 XXXX  
1990 XXXX  
1985 SEGIUN PAUL S  
1980 XXXX  
1975 MATTHEWS FRANK JR  
1975 XXXX  
1966 MORIARTY BILL  
1960 DAVIDSON GEO M

3153 West 71st Street

2018 WALKER William  
2011 WALKER Kathy  
2006 WALKER Kathy  
2000-01 PACHANA Patricia  
1985 SHADDOCK THOS  
1980 SINCLAIR WILLARD T  
1975 SINCLAIR WILLARD T  
1970 SINCLAIR WILLARD T  
1966 SINCLAIR WILLARD T  
1960 SINCLAIR WILLARD T

3156 West 71st Street

2018 KEYS Bruce  
2018 KEYS Phenica  
2011 KEYS Frances  
2006 KEYS Bruce  
2000-01 KEYS Bruce  
1995-96 XXXX  
1990 XXXX  
1985 LAWSON ROBIN  
1980 SCHERER WILLIAM

1975	THORN KENNETH O
1970	THORN KENNETH O
1966	THORN KENNETH O
1960	BISHOP G B

#### 3157 West 71st Street

2018	DEJESUS Felix
2018	RUIZ Nancy
2011	RUIZ Nancy
2006	RUIZ Nancy
2000-01	WEBB Michael
1995-96	WEBB M
1990	BURNS D
1980	XXXX
1975	PETEK T
1970	XXXX
1966	XXXX
1960	KOSON ALEX

#### 3163 West 71st Street

2018	LABOY Abel
2011	LABOY Luz N
2006	LABOY Abel
2000-01	LABOY Abel
1995-96	XXXX
1990	MASSEY Lorraine
1980	XXXX
1975	PIROZZOLI N
1970	PIROZZOLI NICOLA
1966	PIROZZOLI NICOLA
1960	HEINLEN CHAS E JR

#### 3164 West 71st Street

2018	CRAWFORD April
2018	GATHAGAN Kella
2018	GODLEY Bruce
2018	WITKOIWSKI Jerome
2011	GODLEY Bruce
2011	WITKOIWSKI Jerome
2006	WITKOIWSKI Jerome

2000-01	XXXX
1990	XXXX
1985	BOKHARI SAEED
1980	COLOBIANCHI SAM
1980	RYAN TERRANCE
1975	RYAN TERRANCE
1975	WEISS ROBT J
1970	DICELLO ANTHONY
1970	HFRBSTER THOS W
1970	RYAN TERRANCE
1966	CHECKI JULIUS
1966	DICELLO ANTHONY
1960	CHECKI JULIUS

#### 3165 West 71st Street

2011	XXXX
2006	PLUMLEY S
1990	XXXX
1985	XXXX
1980	XXXX
1975	STAFFORD EUGENE
1966	BUNCH JIMMY
1960	JUST THEODORE

#### 3167 West 71st Street

2018	THOMAS Phill M
2011	PARO Jason
2011	THOMAS P M
2006	XXXX
2000-01	FRANCIS Michael
1990	GRAY E
1985	HENRY WILLIS J
1980	HENRY WILLIS J
1980	SWANNER THOS E SR
1975	CARPENTER JOS G
1975	SWANNER THOS E SR
1970	ROYSDEN CHARLIF REV
1970	STAFFORD EUGFNF
1960	GOODMAN FRANCIS J

1960 RIEDEL W A MRS

3168 West 71st Street

2018 JIMENEZ Colasa  
2018 LOPEZ Diaz  
2011 JIMENEZ Colasa  
2006 JIMENEZ Colasa  
2000-01 MICHALSKI Anthony  
1990 RUNISIER Anne  
1985 XXXX  
1980 FIELDING HAROLD C  
1980 MARQUARD WM E  
1975 FIELDING HAROLD C  
1975 MARQUARD WM E  
1970 FRMERSON A M  
1970 MARQUARD WM F  
1966 MARQUARD WM E

3169 West 71st Street

2018 HENDERSHOT Michael J  
2011 HENDERSHOT Michael  
2006 HENDERSHOT Michael  
2000-01 HENDERSHOT Michael  
1990 XXXX  
1985 XXXX  
1980 HAY RAYMOND  
1980 HENDERSHOTT DICK  
1975 HAY RAYMOND  
1975 HENDERSHOTT DICK  
1966 MCCREADY THOS J  
1960 BECKA CHAS

3172 West 71st Street

2011 KLAMM Richard  
2006 DREAMER George  
2006 KLAMM Richard  
2000-01 KAUSEN Ronald  
2000-01 KLAMM Richard  
1995-96 XXXX  
1990 VESELY H

1985	VESELY H
1980	VESELY H
1975	VESELY H
1970	VFSFLY H
1966	DIMAURO JOS
1966	VESELY HELEN MRS
1960	VESELY HELEN MRS

#### 3173 West 71st Street

2018	PETRENCSIK Steven P
2011	PETRENCSIK Eugene
2006	PETRENCSIK Eugene
2000-01	PETRENCSIK Eugene
1995-96	PETRENCSIK Eugene
1990	PETRENCSIK Eugene
1985	PETRENCSIK EUGENE
1980	PERRENCSIK EUGENE
1975	PETRENCSIK EUGENE
1970	PETRENCSIK EUCFNE
1966	PETRNCSIK EUGENE
1960	PALONEY HELEN MRS

#### 3176 West 71st Street

2011	OTTO Catherine
2006	OTTO Catherine
2000-01	OTTO Catherine
1995-96	OTTO L
1990	MOLCHAK Dennis
1985	OTTO C
1980	OTTO C
1975	OTTO C
1970	XXXX
1966	XXXX
1960	ABBESS MIKE

#### 3177 West 71st Street

2018	WHYEL Beverly A
2011	WHYEL George E
2006	WHYEL George E
2006	WHYEL J

2000-01	BASTIAN Cheryl
2000-01	WHYL George E
1995-96	KAUSEN Ronald
1990	KAUSEN Ronald
1985	XXXX
1980	SWANNER DENZIL
1975	SWANNER DENZIL
1970	SWANNER DENZIL
1966	NAGY MIKE
1960	KRUPANSKY LOUIS

#### 3180 West 71st Street

2018	CUNNINGHAM Donald
2011	CUNNINGHAM Donald
2006	CUNNINGHAM Donald
2000-01	ZOLDAK Rose
1995-96	XXXX
1990	XXXX
1985	KEOUGH JOHN R
1980	KEOUGH JOHN R
1975	KEOUGH JOHN R
1970	KFOUCH JOHN R
1966	KEOUGH JOHN R
1960	KEOUGH JOHN R

#### 3181 West 71st Street

2018	KLAMM Doris
2018	KLAMM Richard D
2011	KLAMM D
2006	KLAMM D
2000-01	KLAMM D
1995-96	KLAMM D
1995-96	KLAMM Richard
1990	KLAMM D
1985	KLAMM BRIAN
1985	KLAMM D
1980	HARDULAK NEIL
1975	XXXX
1970	SIMMONS E P

1966	XXXX
1960	EGGERT O J
1960	GLENN ELEANORE J

#### 3184 West 71st Street

2018	ROMIA Nada
2011	EAKIN John
2006	EAKIN John
2000-01	MIHUT Dorin
1995-96	XXXX
1990	KLAMM Richard
1990	CIANCOLA Michael A
1985	CIANCIOLA MICHAEL
1980	CIANCIOLA MICHAEL
1975	XXXX
1970	ROTHACKER AL C
1966	HOFKENSKYD L MISS
1960	HOFKENSKYD L MISS

#### 3185 West 71st Street

2018	HENDERSHOT Michael
2018	REYES Marlissa G
2011	HENDERSHOT Michael
2006	FRANCIS Michael
2000-01	CRUMBLY Bobby
2000-01	MASON Joanne
1995-96	HARDULAK Neil
1990	HARDULAK Neil
1985	HARDULAK NEIL
1980	PERIANDRI C
1975	OLSEN A S
1970	OLSFN A S
1966	OLSEN A S
1960	OLSEN ALMA S

#### 3186 West 71st Street

2018	BISHOP Donald
2018	REYES Sandra
2011	BISHOP Linda
2011	BRYDON Linda

2006	BISHOP Donald
2006	BRYDON Linda
2000-01	LAREW Dorothy
1966	RATLIFF RALPH

#### 3194 West 71st Street

2018	DIAZ William
2018	QUINONES Alexander
2018	RODRIGUEZ Edith
2011	QUINONES Alexander
2006	FONSECA Isis
2006	QUINONES Alexander
2000-01	LAREW Dorothy
1980	XXXX
1975	KLINGENBERG OSCAR
1970	KLINGENBFRG OSCAR
1966	KLINGENBERG OSCAR
1960	KLINGENBERG OSCAR

#### 3198 West 71st Street

2018	HURLEY Gene
2011	HURLEY Gene
2006	HURLEY Gene
2000-01	HURLEY Gene
1995-96	HURLEY Gene
1990	HURLEY Gene
1985	HURLEY GENE
1980	HURLEY GENE
1975	XXXX
1970	RECK RICHARD
1966	BECK RICHARD

#### 3202 West 71st Street

2018	LASLO Petere
2011	JOHNSON D
2011	MURRAY Mickey
2011	SUHY Larry
2006	BOLDEN Bonnie
2000-01	BOLDEN Bonnie
1995-96	LETSGO R

1990	LETSGO R
1980	XXXX
1975	XXXX
1970	XXXX
1966	XXXX

#### 3203 West 71st Street

2018	VENDETTA TOWING INC
2011	ADVANCE HANDLING & STRG PRDCTS
2011	CALA Joseph A
2006	ADVANCE HANDLING& STORAGE PRDCT
2006	ADVANCE HANDLING& STORAGE PRODS
2006	CALA JOSEPH A
2000-01	ADVANCE HANDLING&STORAGE PRDCT
2000-01	ADVANCE HANDLING&STORAGE PRODS
2000-01	CALA JOSEPH A
1995-96	ADVANCE HANDLING
1995-96	C & P SERV CO
1995-96	CALA JOSEPH A
1995-96	HAELY JIM
1995-96	PROTECTIVE PACKAGNG
1995-96	WESTMORELAND JRNL
1990	C&P SERV CO
1990	NURSE ONE INC
1990	S S D DISTRIBUTION
1990	WESTMORELAND JRNL
1985	XXXX
1980	ROHCO INC
1975	HULL R O&CO INC
1970	HULL R O&CO INC
1966	HULL R O CO INC

#### 3204 West 71st Street

2018	LASLO Peter
2011	SUHY Larry
2006	SIEBECKER Ernst
2000-01	SIEBECKER Ernst
1980	XXXX
1975	XXXX

1970	BRICK K
1966	CACOLICI JOS
1960	CACOLICI JOS

#### 3206 West 71st Street

2018	STROPKI Jennifer
2018	STROPKI Mary
2018	STROPKI Robert
2011	STROPKI Jennifer
2006	STROPKI Robert
2000-01	STROPKI Robert
1995-96	XXXX
1990	XXXX
1985	STROPKI ROBT
1980	STROPKI ROBERT
1966	PIERCE BERNARD V
1960	PIERCE BERNARD V

#### 3208 West 71st Street

2018	GOHLSTIN Edward
2011	CARNEY F
2011	GOHLSTIN Edward
2006	CARNEY F
2000-01	DANIEL W
2000-01	KETTEL Angelina
1995-96	KETTEL A
1990	UMSTOTT M
1980	XXXX
1975	FRANK WM G
1970	FRANK WM C
1966	FRANK WM G
1960	FRANK WM G

#### 3214 West 71st Street

2018	BILL Matthew
2018	CONNER Andre
2011	BILL Matthew
2006	BILL Matthew
1995-96	CYRUS Shorty
1990	XXXX

1985	TAYLOR J
1980	XXXX
1975	BURKHART C L
1970	BURKHART C L
1966	XXXX
1960	BOROCZ FRANK

3225 West 71st Street

2018	HILLSON NUT CO
2011	HILLSON NUT CO
2006	HILLSON NUT CO
2000-01	HILLSON Edward
2000-01	HILLSON NUT CO
1995-96	HILLSON NUT CO
1990	HILLSON NUT CO
1985	HILLSON NUT CO
1980	HILLSON NUT CO
1975	HILLSON NUT CO
1970	HILLSON NUT CO
1966	HILLSON NUT CO
1966	KELLY CO THE NUTS
1960	HILLSON NUT CO
1960	KELLY CO THE

31722 West 71st Street

2018	XXXX
2018	ADORNOROLDAN Saadia
2018	KLAMM Richard

**Abstract Section 2: This section includes the city directory data sorted by the year the city directory was published.**

2018

	X CLARK AVE
3111	CHAMBERS Kelly
3111	KLEIN April
3112	JONES Jennifer
3113	SANTOS Teah
	X SEINE CT
3116	PERRY Mia

3117	HARDMAN Arthur
3117	SURMA Edward
3120	ROBINSON Robert
3120	THORNE Gloria
3122	ROBINSON Maggie
3122	THORNE Geore
3123	ACREE Shelia
3127	SANOVICH Peter
3127	TORRES Javier
3129	KARN Jerome
	X SCHNEIDER CT
3134	IRWIN Jeffrey
3135	SANOVICH Frank
3135	SANOVICH Rose
3135	SANOVICH Sarah
3136	SCHMIDT Ronald E
3137	SANOVICH Louis
3142	GARRA Sarina
3143	DAVIS Dominique
3143	OLIVER Douglas
3146	FARRIER Mona
3146	MORALES Yessenia
3147	OLAVARRIA Noma
3148	CORDERO Nancy
3151	MILAN Charlene
3151	WILLIAMS Charlene
3152	ALLEN Dennis
3152	ARROYO Sandra
3153	WALKER William
3156	KEYS Bruce
3156	KEYS Phenica
	X CAMDEN AVE
3157	DEJESUS Felix
3157	RUIZ Nancy
3163	LABOY Abel
3164	CRAWFORD April
3164	GATHAGAN Kella

3164 GODLEY Bruce  
3164 WITKOIWSKI Jerome  
3167 THOMAS Phill M  
3168 JIMENEZ Colasa  
3168 LOPEZ Diaz  
3169 HENDERSHOT Michael J  
3173 PETRENCNIK Steven P  
3177 WHYEL Beverly A  
3180 CUNNINGHAM Donald  
3181 KLAMM Doris  
3181 KLAMM Richard D  
3184 ROMIA Nada  
3185 HENDERSHOT Michael  
3185 REYES Marliisa G  
3186 BISHOP Donald  
3186 REYES Sandra  
X BRINSMADE AVE  
3194 DIAZ William  
3194 QUINONES Alexander  
3194 RODRIGUEZ Edith  
3198 HURLEY Gene  
3202 LASLO Petere  
3203 VENDETTA TOWING INC  
3204 LASLO Peter  
3206 STROPKI Jennifer  
3206 STROPKI Mary  
3206 STROPKI Robert  
3208 GOHLSTIN Edward  
3214 BILL Matthew  
3214 CONNER Andre  
X DEARBORN AVE  
3225 HILLSON NUT CO  
31722 XXXX  
31722 ADORNOROLDAN Saadia  
31722 KLAMM Richard

2011

X CLARK AVE

3111	CHAMBERS Dorothy
3111	ROBERTS Cherrise
3111	THORTON Juanita
3112	HASROUNI Elias
3113	CHAMBERS Thomas C Jr
	X SEINE CT
3116	PERRY Timothy
3117	HARDMAN N
3120	THORNE George
3122	HARTE Jason
3122	ROBINSON Maggie
3122	THORNE George
3123	ACREE Gary
3123	DORSEY Nanyamka
3127	SANOVICH Peter
3129	MENCINI James
	X SCHNEIDER CT
3134	IRWIN Jeffrey
3135	SANOVICH Janet
3136	SCHMIDT Ronald E
3137	SANOVICH Norma
3141	SANOVICH Louis
3143	DAVIS Daryl
3146	BARCELA Andrew
3146	FARRIER Mona
3146	RODRIGUEZ Erica
3146	SERRANO Francheska
3147	XXXX
3148	VILLAFANE Edwin
3151	MILAM Clayton
3151	WILLIAMS Charlene
3152	YONTS S
3153	WALKER Kathy
3156	KEYS Frances
	X CAMDEN AVE
3157	RUIZ Nancy
3163	LABOY Luz N

3164 GODLEY Bruce  
 3164 WITKOIWSKI Jerome  
 3165 XXXX  
 3167 PARO Jason  
 3167 THOMAS P M  
 3168 JIMENEZ Colasa  
 3169 HENDERSHOT Michael  
 3172 KLAMM Richard  
 3173 PETRENCSEK Eugene  
 3176 OTTO Catherine  
 3177 WHYEL George E  
 3180 CUNNINGHAM Donald  
 3181 KLAMM D  
 3184 EAKIN John  
 3185 HENDERSHOT Michael  
 3186 BISHOP Linda  
 3186 BRYDON Linda  
 X BRINSMADE AVE  
 3194 QUINONES Alexander  
 3198 HURLEY Gene  
 3202 JOHNSON D  
 3202 MURRAY Mickey  
 3202 SUHY Larry  
 3203 ADVANCE HANDLING & STRG PRDCTS  
 3203 CALA Joseph A  
 3204 SUHY Larry  
 3206 STROPKI Jennifer  
 3208 CARNEY F  
 3208 GOHLSTIN Edward  
 3214 BILL Matthew  
 3225 HILLSON NUT CO  
 X DEARBORN AVE

2006

X CLARK AVE  
 3111 CHAMBERS Dorothy  
 3112 DACEY Anna  
 3113 XXXX

X SEINE CT  
3116 PERRY Timothy  
3117 LAMB John  
3120 ROBINSON Robert  
3120 THORNE George  
3122 THORNE George  
3123 ACREE Shelia  
3127 MOSES Anthony  
3129 MENCINI James  
X SCHNEIDER CT  
3134 IRWIN Charlene  
3135 SANOVICH Frank  
3137 SCHERER Norman  
3141 SCHMIDT Ronald E  
3141 SCHERER Norman  
3142 XXXX  
3143 XXXX  
3146 BARCELA Andrew  
3146 SILVA Ariel  
3148 KOLTHOFF William  
3151 WILLIAMS Charlene  
3152 ARROYO Angel  
3152 CABAN Andrea  
3153 WALKER Kathy  
3156 KEYS Bruce  
X CAMDEN AVE  
3157 RUIZ Nancy  
3163 LABOY Abel  
3164 WITKOIWSKI Jerome  
3165 PLUMLEY S  
3167 XXXX  
3168 JIMENEZ Colasa  
3169 HENDERSHOT Michael  
3172 DREAMER George  
3172 KLAMM Richard  
3173 PETRENCSIK Eugene  
3176 OTTO Catherine

3177 WHYEL George E  
 3177 WHYEL J  
 3180 CUNNINGHAM Donald  
 3181 KLAMM D  
 3184 EAKIN John  
 3185 FRANCIS Michael  
 3186 BISHOP Donald  
 3186 BRYDON Linda  
 X BRINSMADE AVE  
 3194 FONSECA Isis  
 3194 QUINONES Alexander  
 3198 HURLEY Gene  
 3202 BOLDEN Bonnie  
 3203 ADVANCE HANDLING& STORAGE PRDCT  
 3203 ADVANCE HANDLING& STORAGE PRODS  
 3203 CALA JOSEPH A  
 3204 SIEBECKER Ernst  
 3206 STROPKI Robert  
 3208 CARNEY F  
 3214 BILL Matthew  
 3225 HILLSON NUT CO  
 X DEARBORN AVE

2000-01

3111 CHAMBERS Dorothy  
 3112 ANNA Marie  
 3112 DACEY J  
 X SEINE CT  
 3113 ANDERSON Maritta  
 3116 PERRY Timothy  
 3117 KARN Patrick  
 3120 MARTHA V  
 3122 THORNE George  
 3123 CONNELLY Albert  
 3123 LEIHENSEDER V  
 3127 MOSES Anthony  
 3129 MENCINI James  
 3129 SANOVICH Louis

3134	PENNY B B
3135	SANOVICH Frank
3136	SCHMIDT Ronald E
3137	SCHERER Norman
	X SCHNEIDER AV
3142	BARCELA Andrew J
3143	XXXX
3146	WRIGHT Paul D
3148	KOLTHOFF Wm
3151	MILAM Catherine
3151	WILLIAMS Charlene
3152	RYAN Kevin
3153	PACHANA Patricia
3156	KEYS Bruce
	X CAMDEN AV
3157	WEBB Michael
3163	LABOY Abel
3164	XXXX
3167	FRANCIS Michael
3168	MICHALSKI Anthony
3169	HENDERSHOT Michael
3172	KAUSEN Ronald
3172	KLAMM Richard
3173	PETRENCNIK Eugene
3176	OTTO Catherine
3177	BASTIAN Cheryl
3177	WHYL George E
3180	ZOLDAK Rose
3181	KLAMM D
3184	MIHUT Dorin
3185	CRUMBLEY Bobby
3185	MASON Joanne
3186	LAREW Dorothy
3194	LAREW Dorothy
3198	HURLEY Gene
	X BRINSMADE AV
3202	BOLDEN Bonnie

3203 ADVANCE HANDLING&STORAGE PRDCT  
 3203 ADVANCE HANDLING&STORAGE PRODS  
 3203 CALA JOSEPH A  
 3204 SIEBECKER Ernst  
 3206 STROPKI Robert  
 3208 DANIEL W  
 3208 KETTEL Angelina  
 X DEARBORN AVE  
 3225 HILLSON Edward  
 3225 HILLSON NUT CO

1995-96

X CLARK AV  
 3111 WHYEL Geo E  
 3112 DACEY J  
 3123 LEIHENSEDER V  
 X SHNEIDER CT  
 3127 MOSES Anthony  
 3129 SANOVICH Louis  
 3134 PENNEY B B  
 3135 SANOVICH Frank  
 3136 SCHMIDT Ronald E  
 3137 SCHERER Norman  
 3141 SANOVICH N  
 3142 XXXX  
 3143 XXXX  
 3146 WRIGHT Paul D  
 3148 KOLTHOFF Wm  
 3151 XXXX  
 3152 XXXX  
 3156 XXXX  
 3157 WEBB M  
 X CAMDEN AV  
 3163 XXXX  
 3172 XXXX  
 3173 PETRENCSIK Eugene  
 3176 OTTO L  
 3177 KAUSEN Ronald

3180	XXXX
3181	KLAMM D
3181	KLAMM Richard
3184	XXXX
3185	HARDULAK Neil
3198	HURLEY Gene
3202	LETSGO R
3203	ADVANCE HANDLING
3203	C & P SERV CO
3203	CALA JOSEPH A
3203	HAELY JIM
3203	PROTECTIVE PACKAGNG
3203	WESTMORELAND JRNL
3206	XXXX
3208	KETTEL A
3214	CYRUS Shorty
3225	HILLSON NUT CO

1990

	X CLARK AV SW
3111	WHYEL Geo E
3112	DACEY J
3113	VEALEY D
3116	XXXX
3117	KARIN Patk
3120	XXXX
3122	CECIL M B
3123	XXXX
	X SCHNEIDER CT SW
3127	MOSES Anthony
3129	XXXX
3134	PENNEY B B
3135	SANOVICH Frank
3136	SCHMIDT Ronald E
3137	SCHERER Norman
3141	XXXX
3142	PEKAREK Jerry J
3143	XXXX

3146	WRIGHT Paul D
3148	KOLTHOFF Wm
3151	WILLIAMS Charlene
3151	WILLIAMS Chas E
3152	XXXX
3156	XXXX
3157	BURNS D
	X CAMDEN AV SW
3163	MASSEY Lorraine
3164	XXXX
3165	XXXX
3167	GRAY E
3168	RUNISIER Anne
3169	XXXX
3172	VESELY H
3173	PETRENCSEK Eugene
3176	MOLCHAK Dennis
3177	KAUSEN Ronald
3180	XXXX
3181	KLAMM D
3184	KLAMM Richard
3184	CIANCOLA Michael A
3185	HARDULAK Neil
3198	HURLEY Gene
3202	LETSGO R
3203	C&P SERV CO
3203	NURSE ONE INC
3203	S S D DISTRIBUTION
3203	WESTMORELAND JRNL
3206	XXXX
3208	UMSTOTT M
3214	XXXX
3225	HILLSON NUT CO

1985

3111	WHYEL GEO E
3112	DACEY J
3116	XXXX

3117	GAINER PAUL
3120	PETERSON M V
3122	CECIL M B
3123	SOLIMAN FREDRICK
3127	MOSES ANTHONY
3134	PENNEY B B
3135	SANOVICH FRANK
3136	XXXX
3137	SCHERER NORMAN
3141	XXXX
3142	SZKUP ANDREW
3143	XXXX
3146	WRIGHT PAUL D
3148	KOLTHOFF D E
3148	KOLTHOFF DOROTHY
3151	FECKLEY DAVID
3152	SEGIUN PAUL S
3153	SHADDOCK THOS
3156	LAWSON ROBIN
3164	BOKHARI SAEED
3165	XXXX
3167	HENRY WILLIS J
3168	XXXX
3169	XXXX
3172	VESELY H
3173	PETRENCSEK EUGENE
3176	OTTO C
3177	XXXX
3180	KEOUGH JOHN R
3181	KLAMM BRIAN
3181	KLAMM D
3184	CIANCIOLA MICHAEL
3185	HARDULAK NEIL
3198	HURLEY GENE
3203	XXXX
3206	STROPKI ROBT
3214	TAYLOR J

3225

HILLSON NUT CO

1980

3111 XXXX  
3112 DACEY J  
3113 XXXX  
3116 SMITH S B  
3117 GAINER PAUL  
3120 PETERSON M V  
3122 CECIL M B  
3123 SOLIMAN FREDRICK  
3127 MOSES ANTHONY  
3129 XXXX  
3134 CISMAR MARGARET  
3134 PENNEY B B  
3135 SANOVICH PETER P  
3136 RICHARDSON OWEN  
3137 SCHERER NORMAN  
3141 BURNS FRED A  
3142 LANDIS DONALD JR  
3142 MASTERSON BRIAN  
3143 ZIRWES RUTH E  
3146 WRIGHT PAUL D  
3147 XXXX  
3148 KOLTHOFF DOROTHY  
3151 FECKLEY DAVID  
3152 XXXX  
3153 SINCLAIR WILLARD T  
3156 SCHERER WILLIAM  
3157 XXXX  
3163 XXXX  
3164 COLOBIANCHI SAM  
3164 RYAN TERRANCE  
3165 XXXX  
3167 HENRY WILLIS J  
3167 SWANNER THOS E SR  
3168 FIELDING HAROLD C  
3168 MARQUARD WM E

3169	HAY RAYMOND
3169	HENDERSHOTT DICK
3172	VESELY H
3173	PERRENCSEK EUGENE
3176	OTTO C
3177	SWANNER DENZIL
3180	KEOUGH JOHN R
3181	HARDULAK NEIL
3184	CIANCIOLA MICHAEL
3185	PERIANDRI C
3194	XXXX
3198	HURLEY GENE
3202	XXXX
3203	ROHCO INC
3204	XXXX
3206	STROPKI ROBERT
3208	XXXX
3214	XXXX
3225	HILLSON NUT CO

## 1975

3111	XXXX
3112	DACEY JOHN J
3113	TOKAR MICHAEL
3116	BRIGGS JERRY W
3116	HATHWAY LAWRENCE
3117	GAINER PAUL
3120	PETERSON M V
3122	CECIL M B
3123	PHILLIPS BURL E
3127	MOSES ANTHONY
3129	MINARCHIO RUSSELL
3134	CISMAR MARGARET
3134	PENNEY CHAS F
3135	SANOVICH PETER P
3136	RICHARDSON OWEN
3137	SCHEERER NORMAN
3141	BURNS FRED A

3142	MASTERSON BRIAN
3143	ZIRWES RUTH E
3146	WRIGHT PAUL D
3147	STANSBERRY HOWARD
3148	KOLTHOFF DOROTHY
3148	PETERS NORMAN E
3151	KOHL E
3152	MATTHEWS FRANK JR
3152	XXXX
3153	SINCLAIR WILLARD T
3156	THORN KENNETH O
3157	PETEK T
3163	PIROZZOLI N
3164	RYAN TERRANCE
3164	WEISS ROBT J
3165	STAFFORD EUGENE
3167	CARPENTER JOS G
3167	SWANNER THOS E SR
3168	FIELDING HAROLD C
3168	MARQUARD WM E
3169	HAY RAYMOND
3169	HENDERSHOTT DICK
3172	VESELY H
3173	PETRENCSEK EUGENE
3176	OTTO C
3177	SWANNER DENZIL
3180	KEOUGH JOHN R
3181	XXXX
3184	XXXX
3185	OLSEN A S
3194	KLINGENBERG OSCAR
3198	XXXX
3202	XXXX
3203	HULL R O&CO INC
3204	XXXX
3208	FRANK WM G
3214	BURKHART C L

3225

HILLSON NUT CO

1970

3112 NAUMAN HELEN  
3113 CHARRON L MRS  
3117 CAINER PAUL  
3120 XXXX  
3122 CFCIL M B  
3127 MOSFS ANTHONY  
3129 MINARCHIO RUSSFLL  
3134 CISMAR MARGARET  
3134 PENNEY CHAS F  
3135 SANOVICH PETER P  
3136 RICHARDSON OWEN  
3137 SCHFRFR NORMAN  
3141 XXXX  
3142 BLACKWOOD ROY F  
3142 MASTERSON BRIAN  
3142 PEKAREK GEO F  
3143 ZIRWFS RUTH E  
3146 GROOMS LEROY  
3147 STANSBERRY HOWARD  
3148 HOLT JOHN  
3148 KOLTHOFF DOROTHY  
3151 KOHL E  
3153 SINCLAIR WILLARD T  
3156 THORN KENNETH O  
3157 XXXX  
3163 PIROZZOLI NICOLA  
3164 DICELLO ANTHONY  
3164 HFRBSTER THOS W  
3164 RYAN TERRANCE  
3167 ROYSDEN CHARLIF REV  
3167 STAFFORD EUGFNF  
3168 FRMERSON A M  
3168 MARQUARD WM F  
3172 VFSFLY H  
3173 PETRENCSIK EUCFNE

3176	XXXX
3177	SWANNER DENZIL
3180	KFOUCH JOHN R
3181	SIMMONS E P
3184	ROTHACKER AL C
3185	OLSFN A S
3194	KLINGENBFRG OSCAR
3198	RECK RICHARD
3202	XXXX
3203	HULL R O&CO INC
3204	BRICK K
3208	FRANK WM C
3214	BURKHART C L
3225	HILLSON NUT CO

## 1966

3111	PALGUT THOS
3112	NAUMAN HELEN
3113	XXXX
3116	BRIGGS SHIRLEY
3116	KOWALSKI ANTHONY
3117	GAINER PAUL
3120	XXXX
3122	CECIL M B
3123	FULOP JULIUS
3127	MOSES ANTHONY
3129	MINARCHIO RUSSELL
3134	STRAUB EUGENE
3135	FREEDMAN FREDK W
3136	RICHARDSON OWEN
3137	SCHERER NORMAN
3141	XXXX
3142	ANDERSON FRANK E
3142	MASTERSON BRIAN
3142	PEKAREK GEO E
3143	ZIRWES RUTH E
3146	GAMBLE JOHN C
3147	STANSBERRY HOWARD

3148 KOLTHOFF DOROTHY  
3148 PARODA STEPHEN A JR  
3151 BROOKS SUSAN MRS  
3151 STANSBERRY WM P  
3152 MORIARTY BILL  
3153 SINCLAIR WILLARD T  
3156 THORN KENNETH O  
3157 XXXX  
3163 PIROZZOLI NICOLA  
3164 CHECKI JULIUS  
3164 DICELLO ANTHONY  
3165 BUNCH JIMMY  
3168 MARQUARD WM E  
3169 MCCREADY THOS J  
3172 DIMAURO JOS  
3172 VESELY HELEN MRS  
3173 PETRNCSIK EUGENE  
3176 XXXX  
3177 NAGY MIKE  
3180 KEOUGH JOHN R  
3181 XXXX  
3184 HOFKENS KYD L MISS  
3185 OLSEN A S  
3186 RATLIFF RALPH  
3194 KLINGENBERG OSCAR  
3198 BECK RICHARD  
3202 XXXX  
3203 HULL R O CO INC  
3204 CACOLICI JOS  
3206 PIERCE BERNARD V  
3208 FRANK WM G  
3214 XXXX  
3225 HILLSON NUT CO  
3225 KELLY CO THE NUTS

1960

3111 SEEBER DAVID R  
3112 PARKS DAN

3113 WARREN MARGARET L  
3117 GAINER PAUL  
3120 MFRGL GEO  
3122 CECIL MARCELLA B  
3123 GAINER EDW F  
3127 FELLER MICHAEL  
3129 FLYNT S  
3134 STRAUB EUGENE  
3135 FREEDMAN FREDK W  
3136 COCHILLA STEVE  
3137 SANSBURY FRANK P  
3142 MASTERSON BERNARD  
3143 ZIRWES RUTH E  
3146 JUNKINS WALTER E  
3146 STECER DC DEAN  
3147 WAGNER JOS  
3148 KOLTHOFF DOROTHY  
3151 SLEDZIEWSKI THADEUS  
3152 DAVIDSON GEO M  
3153 SINCLAIR WILLARD T  
3156 BISHOP G B  
3157 KOSON ALEX  
3163 HEINLEN CHAS E JR  
3164 CHECKI JULIUS  
3165 JUST THEODORE  
3167 GOODMAN FRANCIS J  
3167 RIEDEL W A MRS  
3169 BECKA CHAS  
3172 VESELY HELEN MRS  
3173 PALONEY HELEN MRS  
3176 ABBESS MIKE  
3177 KRUPANSKY LOUIS  
3180 KEOUGH JOHN R  
3181 EGGERT O J  
3181 GLENN ELEANORE J  
3184 HOFKENSKYD L MISS  
3185 OLSEN ALMA S

3194	KLINGENBERG OSCAR
3204	CACOLICI JOS
3206	PIERCE BERNARD V
3208	FRANK WM G
3214	BOROCZ FRANK
3225	HILLSON NUT CO
3225	KELLY CO THE

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1258 Isabella Apt 1-2 Bonacci Saml 3 Ervin John N 4 Puppe Jos 5 39 return 6 Knuck Robt A 7 DiPasio Josephine Mrs

Street continued 1259 D. Del Vecchio Peter 1260 A. Costanzo Salvatore A 1262 V. Yvonne Margt M 1263 A. De Vito Danl 1264 B. Buras Michl W 1264 D. Capasso Jerry rear Floridina Anna Mrs

1267 Chasleres Florence Mrs 1268 J. Collier Jas H 1269 A. DiLoreto Rose 1270 B. Diorelli Eug A 1268 B. DeConce John E 1270 O. Orly Donald E 1271 A. Stewart Jas 1271 D. Mathuse Michl A 1275 D. A. Valis Anthony J

1276 A. P. Ackman Martin J 1276 B. Coniglio Kath 1276 C. Costanzo Orlando 1276 D. Kaminski Jos Jr 1279 A. Coniglio Florence Mrs 1280 A. Pugliese Jas 1280 B. DiLillo Angelina Mrs 1280 C. Guardia Guy A 1282 A. Pomatali Robt 1282 B. DiNardi Jean Mrs rear 1282 C. Santoro Phil 1282 D. Pagan Jas J 1286 F. Poca Bakery Whse 1287 Barone Apts 1 1287 B. Mariani Sophie Mrs 1287 C. Konraski Frank 1287 D. Simpson Beatrice Mrs

Street continued 1292 A. Piacca Bakng Co 1292 B. Piacca John 1296 A. Bonacci Anthony 1298 A. Capobianchi Louis E 1298 B. Busch Michl Herman av intersect 1302 A. Manco Cafe rear 1302 B. Manco Helen Mrs 1302 C. Marini Paul M 1305 A. Barnhill Michl M 1306 A. Polivka Frank 1308 A. Dezo Boss Mrs 1311 D. Sants Apts 1311 B. DeSantis Apts 1311 C. DeSantis Ralph P 1311 D. Sants Bud 1311 E. Vacant 1311 F. Borrelli Frank Street continued 1314 A. Costaro Anthony J 1315 A. Casassa Eustacio A 1315 B. Zilinski Letta P 1320 A. Vicerone Angelo 1320 B. Henry Edw P 1321 A. Casarelli Peter R 1322 A. Santoro Angelo 1326 A. Pastorella Pasquolina 1326 B. Corone Alex 1326 C. Santoro Saml rear 1326 D. DiBario Ross Mrs 1329 A. Sardelle Richd 1330 A. DeSantis Benj 1333 A. Costanzo Albert 1334 A. Casale Ralph 1334 B. DeBello Andrew 1335 A. Zilinski Esther Mrs 1335 B. Vacant 1335 C. Fragnoli John A 1335 D. Costanzo Aracelio T 1339 A. Scalmano Rose Mrs

1342 A. DiMarco Olivia Mrs 1343 A. Conroy Steve V 1343 B. Nestor Peter 1345 A. Gallina John G 1347 A. Scherba Giuseppe C 1349 A. Bovelet Peter P 1354 A. Nuoci Gesario N 1356 A. Ruggiero John 1356 B. Vedona Jos A 1356 C. Sardo Anthony J 1357 A. Iscobelli Anthony P 1357 B. Iscobelli Fred E 1358 A. Carolo Salvatore C 1358 B. Carolo Salvatore C 1358 C. Carolo Salvatore C 1358 D. Carolo Salvatore C 1358 E. Carolo Salvatore C 1358 F. Carolo Salvatore C 1358 G. Carolo Salvatore C 1358 H. Carolo Salvatore C 1358 I. Carolo Salvatore C 1358 J. Carolo Salvatore C 1358 K. Carolo Salvatore C 1358 L. Carolo Salvatore C 1358 M. Carolo Salvatore C 1358 N. Carolo Salvatore C 1358 O. Carolo Salvatore C 1358 P. Carolo Salvatore C 1358 Q. Carolo Salvatore C 1358 R. Carolo Salvatore C 1358 S. Carolo Salvatore C 1358 T. Carolo Salvatore C 1358 U. Carolo Salvatore C 1358 V. Carolo Salvatore C 1358 W. Carolo Salvatore C 1358 X. Carolo Salvatore C 1358 Y. Carolo Salvatore C 1358 Z. Carolo Salvatore C

Franklin Blvd interests 1858 D. O. Sarah Mrs 1862 A. Naylor Sirkus S 1868 D. O'Connor John R 1868 E. Hansen John H 1870 A. Swift Howard 1874 Pruss Frank 1878 A. Wray Pete 1882 A. Hansen Earlman M 1882 B. Hansen Earlman M 1882 C. Hansen Earlman M 1882 D. Vioracion John 1890 A. Gonzalez Pedro 1890 B. Koskaldia Pete J 1891 A. McGinly Thos J 1894 A. Pover Elek Jr 1895 B. Moran Michl R 1897 A. Rogers Chas F 1898 K. Kenny Jos C 1701 A. Rose Woodrow W 1702 A. Pascaro Wm P 1706 A. Pres Walter M 1709 A. Banker Peter J 1710 A. Banker Peter J 1710 B. Banker Peter J 1710 C. Banker Peter J 1710 D. Banker Peter J 1710 E. Banker Peter J 1710 F. Banker Peter J 1710 G. Banker Peter J 1710 H. Banker Peter J 1710 I. Banker Peter J 1710 J. Banker Peter J 1710 K. Banker Peter J 1710 L. Banker Peter J 1710 M. Banker Peter J 1710 N. Banker Peter J 1710 O. Banker Peter J 1710 P. Banker Peter J 1710 Q. Banker Peter J 1710 R. Banker Peter J 1710 S. Banker Peter J 1710 T. Banker Peter J 1710 U. Banker Peter J 1710 V. Banker Peter J 1710 W. Banker Peter J 1710 X. Banker Peter J 1710 Y. Banker Peter J 1710 Z. Banker Peter J

1711 A. Banker Peter J Jr 1713 A. Napier Jas J 1713 B. Napier Jas J 1714 A. Steph Danl P 1717 A. Page Lawrence H 1718 A. Chandler Clita H 1718 B. Barrett Roy W 1721 A. Frawley Denis 1721 B. Frawley Denis 1725 A. Ebel Edw H Wakefield av intersects

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1317 A. Melcher Edw C 1318 A. Melcher Nellie 1318 B. Melcher Nellie 1318 C. Melcher Nellie 1318 D. Melcher Nellie 1318 E. Melcher Nellie 1318 F. Melcher Nellie 1318 G. Melcher Nellie 1318 H. Melcher Nellie 1318 I. Melcher Nellie 1318 J. Melcher Nellie 1318 K. Melcher Nellie 1318 L. Melcher Nellie 1318 M. Melcher Nellie 1318 N. Melcher Nellie 1318 O. Melcher Nellie 1318 P. Melcher Nellie 1318 Q. Melcher Nellie 1318 R. Melcher Nellie 1318 S. Melcher Nellie 1318 T. Melcher Nellie 1318 U. Melcher Nellie 1318 V. Melcher Nellie 1318 W. Melcher Nellie 1318 X. Melcher Nellie 1318 Y. Melcher Nellie 1318 Z. Melcher Nellie

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1285 A. Truck Engineering 1290 A. Corn auto trailer Mrs 1294 A. Nylonge Corp 1310 R. Rossi Ferdinand 1310 S. Rossi Ferdinand 1310 T. Rossi Ferdinand 1310 U. Rossi Ferdinand 1310 V. Rossi Ferdinand 1310 W. Rossi Ferdinand 1310 X. Rossi Ferdinand 1310 Y. Rossi Ferdinand 1310 Z. Rossi Ferdinand 1311 A. Clark Bertha E 1311 B. Clark Bertha E 1311 C. Clark Bertha E 1311 D. Clark Bertha E 1311 E. Clark Bertha E 1311 F. Clark Bertha E 1311 G. Clark Bertha E 1311 H. Clark Bertha E 1311 I. Clark Bertha E 1311 J. Clark Bertha E 1311 K. Clark Bertha E 1311 L. Clark Bertha E 1311 M. Clark Bertha E 1311 N. Clark Bertha E 1311 O. Clark Bertha E 1311 P. Clark Bertha E 1311 Q. Clark Bertha E 1311 R. Clark Bertha E 1311 S. Clark Bertha E 1311 T. Clark Bertha E 1311 U. Clark Bertha E 1311 V. Clark Bertha E 1311 W. Clark Bertha E 1311 X. Clark Bertha E 1311 Y. Clark Bertha E 1311 Z. Clark Bertha E

1312 A. Perry Jos L 1312 B. Perry Jos L 1312 C. Perry Jos L 1312 D. Perry Jos L 1312 E. Perry Jos L 1312 F. Perry Jos L 1312 G. Perry Jos L 1312 H. Perry Jos L 1312 I. Perry Jos L 1312 J. Perry Jos L 1312 K. Perry Jos L 1312 L. Perry Jos L 1312 M. Perry Jos L 1312 N. Perry Jos L 1312 O. Perry Jos L 1312 P. Perry Jos L 1312 Q. Perry Jos L 1312 R. Perry Jos L 1312 S. Perry Jos L 1312 T. Perry Jos L 1312 U. Perry Jos L 1312 V. Perry Jos L 1312 W. Perry Jos L 1312 X. Perry Jos L 1312 Y. Perry Jos L 1312 Z. Perry Jos L

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4371 A. Zabranski Anthony 4372 A. Klinek Michl V 4373 A. Callahan Kath Mrs 4374 A. Klinek Michl V 4375 A. Reimer Norman 4376 A. Peplun Chas 4377 A. Peplun Chas 4378 A. Peplun Chas 4379 A. Peplun Chas 4380 A. Peplun Chas 4381 A. Peplun Chas 4382 A. Peplun Chas 4383 A. Peplun Chas 4384 A. Peplun Chas 4385 A. Peplun Chas 4386 A. Peplun Chas 4387 A. Peplun Chas 4388 A. Peplun Chas 4389 A. Peplun Chas 4390 A. Peplun Chas 4391 A. Peplun Chas 4392 A. Peplun Chas 4393 A. Peplun Chas 4394 A. Peplun Chas 4395 A. Peplun Chas 4396 A. Peplun Chas 4397 A. Peplun Chas 4398 A. Peplun Chas 4399 A. Peplun Chas 4400 A. Peplun Chas 4401 A. Peplun Chas 4402 A. Peplun Chas 4403 A. Peplun Chas 4404 A. Peplun Chas 4405 A. Peplun Chas 4406 A. Peplun Chas 4407 A. Peplun Chas 4408 A. Peplun Chas 4409 A. Peplun Chas 4410 A. Peplun Chas 4411 A. Peplun Chas 4412 A. Peplun Chas 4413 A. Peplun Chas 4414 A. Peplun Chas 4415 A. Peplun Chas 4416 A. Peplun Chas 4417 A. Peplun Chas 4418 A. Peplun Chas 4419 A. Peplun Chas 4420 A. Peplun Chas 4421 A. Peplun Chas 4422 A. Peplun Chas 4423 A. Peplun Chas 4424 A. Peplun Chas 4425 A. Peplun Chas 4426 A. Peplun Chas 4427 A. Peplun Chas 4428 A. Peplun Chas 4429 A. Peplun Chas 4430 A. Peplun Chas 4431 A. Peplun Chas 4432 A. Peplun Chas 4433 A. Peplun Chas 4434 A. Peplun Chas 4435 A. Peplun Chas 4436 A. Peplun Chas 4437 A. Peplun Chas 4438 A. Peplun Chas 4439 A. Peplun Chas 4440 A. Peplun Chas 4441 A. Peplun Chas 4442 A. Peplun Chas 4443 A. Peplun Chas 4444 A. Peplun Chas 4445 A. Peplun Chas 4446 A. Peplun Chas 4447 A. Peplun Chas 4448 A. Peplun Chas 4449 A. Peplun Chas 4450 A. Peplun Chas 4451 A. Peplun Chas 4452 A. Peplun Chas 4453 A. Peplun Chas 4454 A. Peplun Chas 4455 A. Peplun Chas 4456 A. Peplun Chas 4457 A. Peplun Chas 4458 A. Peplun Chas 4459 A. Peplun Chas 4460 A. Peplun Chas 4461 A. Peplun Chas 4462 A. Peplun Chas 4463 A. Peplun Chas 4464 A. Peplun Chas 4465 A. Peplun Chas 4466 A. Peplun Chas 4467 A. Peplun Chas 4468 A. Peplun Chas 4469 A. Peplun Chas 4470 A. Peplun Chas 4471 A. Peplun Chas 4472 A. Peplun Chas 4473 A. Peplun Chas 4474 A. Peplun Chas 4475 A. Peplun Chas 4476 A. Peplun Chas 4477 A. Peplun Chas 4478 A. Peplun Chas 4479 A. Peplun Chas 4480 A. Peplun Chas 4481 A. Peplun Chas 4482 A. Peplun Chas 4483 A. Peplun Chas 4484 A. Peplun Chas 4485 A. Peplun Chas 4486 A. Peplun Chas 4487 A. Peplun Chas 4488 A. Peplun Chas 4489 A. Peplun Chas 4490 A. Peplun Chas 4491 A. Peplun Chas 4492 A. Peplun Chas 4493 A. Peplun Chas 4494 A. Peplun Chas 4495 A. Peplun Chas 4496 A. Peplun Chas 4497 A. Peplun Chas 4498 A. Peplun Chas 4499 A. Peplun Chas 4500 A. Peplun Chas

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- W 67TH ST SW (H-8) - From Lorain av to Clark... W 68TH ST SW (H-8) - From Lorain av to Clark... W 69TH PL SW (H-8) - From Lorain av to Denison... W 70TH ST SW (H-8) - From Lorain av to Denison... W 71ST ST SW (H-8) - From Lorain av to Denison... W 72D PL SW (H-8) - From Lorain av to Westworth... W 73D ST SW (H-8) - From Lorain av to Denison... W 74TH ST SW (H-8) - From Lorain av to Denison... W 75TH ST SW (H-8) - From Lorain av to Denison... W 76TH ST SW (H-8) - From Lorain av to Denison... W 77TH ST SW (H-8) - From Lorain av to Denison... W 78TH ST SW (H-8) - From Lorain av to Denison... W 79TH ST SW (H-8) - From Lorain av to Denison... W 80TH ST SW (H-8) - From Lorain av to Denison... W 81ST ST SW (H-8) - From Lorain av to Denison... W 82D ST SW (H-8) - From Lorain av to Denison... W 83D ST SW (H-8) - From Lorain av to Denison... W 84D ST SW (H-8) - From Lorain av to Denison... W 85D ST SW (H-8) - From Lorain av to Denison... W 86D ST SW (H-8) - From Lorain av to Denison... W 87D ST SW (H-8) - From Lorain av to Denison... W 88D ST SW (H-8) - From Lorain av to Denison... W 89D ST SW (H-8) - From Lorain av to Denison... W 90D ST SW (H-8) - From Lorain av to Denison... W 91D ST SW (H-8) - From Lorain av to Denison... W 92D ST SW (H-8) - From Lorain av to Denison... W 93D ST SW (H-8) - From Lorain av to Denison... W 94D ST SW (H-8) - From Lorain av to Denison... W 95D ST SW (H-8) - From Lorain av to Denison... W 96D ST SW (H-8) - From Lorain av to Denison... W 97D ST SW (H-8) - From Lorain av to Denison... W 98D ST SW (H-8) - From Lorain av to Denison... W 99D ST SW (H-8) - From Lorain av to Denison... W 100D ST SW (H-8) - From Lorain av to Denison...

WHEN YOU BUY A NEW OR USED CAR ON T.P.S. THE LOWEST CIBC PLAN

CLEVELAND ADDRESS TELEPHONE DIRECTORY

WEST 69th ST SW  
(Continued)

3554 Lukso Andrew ME-7476  
3557 Wendt Bernice A Miss AT-2555  
3558 Lukso Joe WO-1062  
3565 Diemas Wm ME-5011  
3567 Stinchcombe Maude F WO-2320  
3571 Darrach Alex AT-0084  
3571 Johnson Perry Mrs ME-1289  
3572 Mickovsky Mona WO-0443  
3575 Balogh Geo AT-0577  
3576 Zavadny John AT-1183  
3583 Facca Peter ME-7883  
3585 Zambetti Harry AT-3057  
3586 Reimann Carl AT-2849  
3587 Bidelman W E AT-1761  
3588 Klesler August AT-3269  
3600 Atlas Foundry Co WO-2014  
4436 Burton Wm S FL-8750  
4447 Lauer Arthur FL-6569

WEST 70th ST NW

1250 Union Products Co ME-3850  
1285 Truck Engineering Corp ME-8000  
1285 Wood Gar Hydraulic Hoist & Body Co ME-8000  
1294 Natl Rayon Corp WO-6161  
1310 MacMichael Harry G AT-2051  
1310 Rossi Fred WO-2296  
1314 Clark Bertha WO-4590  
1320 Taylor Kenneth ME-5281  
1326 Perry A R ME-2585  
1328 Perry Pat Mrs ME-7649  
1330 Bianchi John WO-7805  
1334 Ezzo Louis ME-5605  
1334 Ezzo Viola ME-8766  
1348 Naele Furnr Inc ME-8044  
1348 Upholstersers Textile & Supply Co WO-5439  
1360 Globe Pattern & Mfg Co WO-1159  
1366 Guardian Equipment Co ME-5501  
1388 Tower Candy Co WO-3069

WEST 70th ST SW

3114 Roth Michael J Jr ME-4794  
3115 Johncock Lewis G WO-8717  
3120 Gerstacker Geo E R WO-0351  
3121 Zingelman R R ME-6306  
3125 Kummerlen J R ME-3712  
3126 Karm Wilda Mrs AT-0044  
3129 Kummerlen Martin ME-6987  
3131 Bailey Richard WO-0846  
3134 Crist Monroe ME-8306  
3136 Harmon Lucille B R WO-5396  
3137 Iammarino Salvatore WO-4371  
3138 Hall M E AT-1551  
3141 Swinaski Frank ME-3039  
3148 Toth Mike J ME-5549  
3142 Plagman Henry ME-1297  
3145 Kummerlen Jas R ME-7857  
3147 Steinmeyer Marie R WO-1144  
3152 Ringmeier Marie R ME-2225  
3153 Keller Fred R WO-2004  
3155 Cisko Ernest ME-7628  
3157 Krause Frank WO-3458  
3167 Dwagner Walter ME-8330  
3173 Ferrere Anthony ME-5717  
3174 Plagman Erwin L R ME-1979  
3178 Haebler August R ME-6773  
3186 Hollister Clinton ME-0688  
3190 Valentine Harold ME-1271  
3198 Lutz Fred W R

Actual Street Numbers Not Given  
Colorcraft Co WO-7650  
Mascall Paint Co WO-7650  
Manhattan Paint Co WO-7650  
Monarch Paint Co WO-7650  
Northern Chemical Co WO-7650  
Tropical Paint & Oil Co WO-7650

WEST 71st ST NW

1824 Dillow Lester ME-3890  
1886 Morawitz Carl R ME-2738  
1887 Bollinger C F AT-1568  
1888 Dillen E L R ME-4526  
1888 Lutz J F WO-7551  
1889 Sharp J F ME-7387  
1891 Baldwin Alvin W ME-5279  
1892 Heiden Rachel Miss ME-9203  
1892 Thorp E ME-4023  
1893 Kish Jos ME-4617  
1894 Seigworth Wayne ME-1163  
1895 O'Malley M R R WO-6546  
1896 McDermott Edw F WO-8565  
1896 McDermott John J ME-4952  
1899 Schmucker J P R WO-1644  
1900 Burns Margaret WO-1114  
1902 Hartman Agnes ME-1347  
1903 Roby Elias H ME-3775  
1903 Zeleka Helen WO-5359

WEST 71st ST NW  
(Continued)

1904 Gray Earl O R WO-9182  
1906 Perry Jess WO-9401  
1907 Donovan Lawrence B WO-8064  
1908 Wittliff T H Jr WO-5671  
1910 Houston Frank H WO-5967  
1911 McCaffery G F ME-0052  
1912 McManamon Hugh T WO-3782  
1913 Kish Robt ME-6496  
1914 Haumesser Harold ME-5504  
1915 Schmidt Jos R ME-3624  
1918 Seibel Geo F R ME-4528  
1919 Peters Francis W ME-8586  
1920 McDonald Loretta T WO-1837  
1922 Ryan C J ME-3624  
1922 Solon B ME-8520  
1923 Corrigan Sylvester WO-1528  
1924 Marosky Wm Sr ME-3178  
1925 Aquilla Rose Mrs R WO-1116  
1926 Teller Jos ME-3040  
1927 Clement Lawrence AT-1229  
1928 Tuori Fred WO-3449  
1929 Blake Bert G

WEST 71st ST SW

3111 Zamborsky John Jr WO-4068  
3113 Smith Herbert WO-8781  
3116 Gaiser Leslie F ME-2719  
3117 Walker Paul R ME-6354  
3120 Link Betty ME-5281  
3122 Cooney Patrick J R ME-1217  
3127 Gluth Larry WO-4026  
3135 Freedman F C ME-1851  
3136 Pultz Jos C WO-0132  
3137 Thompson K V ME-6991  
3142 Thyret Lizzie ME-0558  
3146 Steger Kenneth E Rev WO-8483  
3146 Wilson Eileen Mrs WO-8863  
3147 Wagner Jos ME-4886  
3148 Kolthoff Dorothy R ME-1455  
3151 Searie Elfrieda WO-2741  
3152 Davidson Geo H R WO-5383  
3153 Mansfield Mahel Mrs R WO-1432  
3157 Koson Alex R WO-1669  
3165 Just Theodora AT-2525  
3167 Grant Robt WO-6816  
3167 Riedel Walter A R ME-7518  
3168 Glaewe Fred R ME-3134  
3169 Hornick John H WO-9362  
3172 Graf Edw W AT-2245  
3172 Haas Clark J WO-2719  
3173 Knopp Frank WO-4328  
3180 Kerstein Adelbert E WO-8433  
3181 Stevens Winifred WO-4896  
3184 Hofkenskyd L Miss R ME-6091  
3185 Olan Dis R WO-8541  
3186 Morgan John T ME-5743  
3193 Otter Wm E ofc ME-8499  
3194 Howarth Ernest D WO-7461  
3204 Coccolini Jos ME-8534  
3206 Dunyan Bert R ME-0264  
3206 Kasper Betty ME-8417  
3205 Buckholz Fred C SH-8848  
4919 Reynolds W Walker SH-2577  
4922 Dice Miriam E FL-6940  
4936 Tausch Chas FL-0871  
4937 Hinz Chas A FL-6237  
4946 Hicks David D SH-4990  
4947 Wanyha Alex FL-0923  
4957 Hecht Phillip J FL-0513  
4957 Hanzas Jos SH-9000  
4960 Stachowiak Wm G FL-7286  
4967 Schenck Wm G FL-2325  
4972 Hansen Lloyd FL-0805  
4976 Gerber Chas E FL-0650  
4985 Yuhus W SH-1250  
4991 Christensen Earl FL-2167  
4992 Jagusch Wilmer SH-0870  
4995 Winkler Paul E FL-9540  
4999 Thomas Jos E SH-7836  
4400 Cahlar Geo FL-9949  
4405 Spilker L G FL-1084  
4406 Gagner Lawrence SH-0477

WEST 73d ST NW

1284 Wheelidin Geo R WO-0915  
1288 Dowell Bertha ME-9419  
1293 Lincoln Coal Co WO-3020  
1300 Costanzo Sylvester WO-2114  
1304 Chianello Antonietta ME-8902  
1308 Dougherty Martin ME-3424  
1308 Gallagher Martin R ME-1682  
1308 Wasterson M W Mrs WO-5169  
1310 Velloni John J ME-4476  
1314 Chester C Fred R WO-2388  
1314 Chester Fred C R WO-2389  
1317 Manacopelli Jos ME-1383  
1360 Cowell Phillip C J ME-5676  
1363 Gregor John ME-3985  
1364 De Jen Adrian M ME-7698  
1366 Zurlief Frank ME-1241  
1370 Hartwick Bertha WO-6986  
1372 Diederichs Carl L R WO-9486  
1376 Ziegemeyer E G R WO-7163  
1380 Angelo Carmen ME-1327  
1382 Cletreth Wm B AT-0762  
1386 Dorn Wm U R WO-0455

WEST 73d ST NW  
(Continued)

1893 Fuerst O H ME-5570  
1895 Kitzel Dell Burt WO-7237  
1896 Hawley Bill R WO-5996  
1897 Perry Thos J ME-5035  
1899 Alice F Miss R WO-8852  
1901 De Phillips Peter WO-0088  
1902 Casale Romeo ME-9207  
1903 Angelone Carmen ME-4955  
1905 Knipper Clayton ME-1292  
1906 Haddad Geo ME-4384  
1907 Murray Nelson R ME-2786  
1911 Melvin Edw R ME-5780  
1912 Altfield Herbert R WO-1526  
1913 White Geo P ME-0558  
1915 Florea Oliver ME-0341  
1918 Finch Henry R WO-5082  
1919 Limben A R WO-7747  
1919 Sherbar Jean WO-7747  
1921 Marth P C ME-3471  
1922 Byrne Rose Marie ME-3126  
1923 Dickerson M Mrs R ME-4243  
1925 Tomisk Robt WO-953  
1927 Reinhold Wm R WO-8492  
1928 Anderson J Mrs R WO-8851  
1930 Handy Louis ME-6690  
1931 Sathre Gus R WO-1108  
1932 Art Ole R WO-9146  
1934 Parker H J R ME-4408  
1940 McChrystal John ME-5505  
1942 McGuiness F L R ME-0064

WEST 73d ST SW

2014 Frass Leo ME-1705  
2016 Dolwig Phillip ME-7428  
2017 Bradshaw Chas M WO-1431  
2018 Plagman Kenneth WO-0751  
2020 Plinick Olga R WO-5199  
2044 Kerr Edwin J WO-0809  
2055 Accurate Demonstrating Associates WO-0799  
2055 Conser's Oil Store WO-0799  
2055 White Front General Store WO-9577  
2069 Mazak Wm ME-1866  
2082 Lazzor Confectionery ME-9682  
2083 Abend John ME-0105  
2093 Hoffman Elmer R ME-4558  
2098 Conroy Jas F ME-8933  
2098 Manheimer Sam ME-9144  
2098 Wooldridge Glenn E ME-2806  
2104 Benjamin Robt N WO-4677  
2104 Melvin Mary E ME-9159  
2104 Summerville John W AT-1414  
2108 Edwards Frank WO-8490  
2108 Gorta Evelyn WO-8470  
2108 Grace Robt ME-7733  
2129 Zidek Paul ME-3447  
2132 Bowe J L R ME-2119  
2157 Carman Catherine ME-6110  
2157 Thompson Bernice Mrs AT-1419  
2162 Sharkey Marlan WO-1760  
2163 Hensel Dovie Mrs WO-8909  
2175 Berger Irvin H ME-5227  
2180 Reinheimer Harry J R ME-2835  
2182 Hittler Ella Mrs ME-7328  
2186 Ehrbar John R WO-8197  
2190 Kilbane Bryan AT-0453  
2193 Nash W F AT-2957  
2194 Steltz Anna WO-4209  
2197 Gelski Mathew WO-6130  
2201 Eiben Frank WO-8181  
2204 Bert Clarence A WO-4403  
2204 Holmok Elmer W R ME-0353  
2205 Fisher Geo ME-6947  
2205 Kline Jas WO-9778  
2206 Martoch Chas A ME-9067  
2208 Shirk Fred W ME-0563  
2212 Sharpe Beatrice WO-7894  
2213 Porter Ward S R ME-1614  
2213 Porter Ward S Cafe ME-9545  
2219 Putsch E A ME-1767  
2220 Budd Wm ME-2258  
2220 O'Malley Emma Mrs WO-1053  
2224 Halek Chas ME-7383  
2225 Putsch C M WO-5228  
2228 Hickman Bette ME-4903  
2228 Hill Wm T ME-8073  
2232 Hecht Margaret A ME-1652  
2234 Fischbach Lawrence WO-7809  
2234 Walsh N J ME-4249  
2234 Steiner Jos ME-0272  
2244 Kraft John P ME-6515  
2246 Kightlinger Melvin WO-2429  
2246 Schmidt Fred Wm WO-9984  
2249 De Luca Louis WO-4035  
2250 Jansen Einar ME-4114  
2250 Wertz R E ME-7394  
2251 Tischler John WO-5516  
2253 Jenoval Phillip WO-3224  
2254 Burke Annes R ME-8188  
2257 Jabs Harrietta ME-6318  
2258 Dunsomr John A R ME-8482  
2258 Falkenstein J R WO-2528  
2260 Pagel Wm ME-4491  
2262 Manelli Dan ME-6020  
2263 Patt Ralph B WO-1473  
2263 Smith Jas A Mrs WO-7876  
2265 Duvo Roland C ME-6945  
2269 Voigt Nelson R ME-9328  
2270 Tucker's Shell Sta ME-9886  
3101 Ina's Confty WO-9719

WEST 73d ST SW  
(Continued)

3102 Marino's Gulf Sew Sta AT-3296  
3103 Seferd Gladys ME-0688  
3106 Hirt Insulating Co AT-0900  
3106 Michalske Chas R WO-3142  
3106 Michalske Melvin W WO-8459  
3107 Hess Harry E WO-4705  
3109 Lenhart Albert AT-0794  
3110 Masek Drug Store WO-9518  
3111 Shackelford Walter E AT-3484  
3115 Burgo Ross ME-0504  
3116 Ridge Theatre WO-6707  
3120 Stoll Wilbert C WO-3738  
3121 Rossino Ronald D ME-1097  
3126 Borth Frank G R WO-8481  
3127 Galvin Alma ME-7153  
3127 Glaser Wm ME-4937  
3130 Barnes Jos ME-6400  
3133 Spilker Henry E R WO-7358  
3136 King's Dry Cng & Tailoring WO-8960  
3137 Lunato Ralph L Jr WO-4806  
3138 Gerson Bert A Constr Co WO-1487  
3140 Alber Rosanne WO-3865  
3140 Bogdanski Geraldine WO-6359  
3140 George E WO-5245  
3143 Huck Baiser WO-5239  
3145 Fawley Kathryn M R WO-3248  
3146 Ziska Book Binding Co ME-6590  
3148 Fragnoli Anthony WO-4322  
3149 Kilbane June WO-2271  
3150 Elsie's Beauty Shop ME-4238  
3153 Mangano Martin J ME-2512  
3154 Biven Ella ME-0149  
3154 Kramer Jos F WO-8010  
3158 Moore John R WO-2308  
3164 Weidner Archie Mrs AT-3953  
3168 Hennig August WO-7409  
3169 Sisley Herman R ME-4668  
3171 Barban Frank ME-5545  
3173 Breiligan Elizabeth WO-1164  
3173 Prister Meat Mkt WO-6838  
3178 Mueller Pete ME-1673  
3181 Graf E AT-3347  
3184 Geer Deussen AT-2661  
3189 Van Millcent Paul F AT-0960  
3192 Fisher Bros Co Retail Stores AT-2746  
3194 Knarr Geo J WO-2327  
3200 Becker John R ME-1773  
3204 Bender Rosa Mrs ME-2625  
3204 David Frank ME-7812  
3204 David's Food Store ME-7832  
3205 Gastony Mary ME-5477  
3208 Kesselbauer Henry R WO-5668  
3209 Wurm Kenneth W R ME-5171  
3212 Lau A R WO-2596  
3213 Eland Bertha R WO-1277  
3213 Hayduk Carl ME-3485  
3214 Aufmuth A J WO-3369  
3223 Lux Beauty Salon ME-5660  
3223 Phillip John W ME-2180  
3224 Walter Carl WO-9705  
3225 Barta Margaret E R WO-5137  
3225 Brown Geo ME-1452  
3225 Hotes Arthur Jr ME-6275  
3228 Hager Ruth ME-2781  
3229 Haman J F Jr WO-4407  
3229 Mother's Grill ME-7496  
3229 Wheeler L D ME-7486  
3236 Migeed John R ME-7146  
3236 Terback Betty ME-7146  
3241 Karr Lillian R WO-0656  
3241 Mackoyak Joe WO-3331  
3244 Klostermeyer Mary Mrs WO-4808  
3245 Moran Gertrude WO-3792  
3248 Halderman Ross ME-5253  
3248 Preising Robt ME-5665  
3253 Branks Earl J WO-2982  
3255 Elster W S ME-2765  
3256 Smock's Cafe WO-9713  
3263 Hitchfield Jas WO-0911  
3264 Hennings Jack R WO-3013  
3267 Rudd Henry WO-2498  
3268 Holmes Harry G ME-4419  
3271 Lutturi Jos R ME-5462  
3271 Richardson Edw F ME-2902  
3272 Vonker Geo F ME-2258  
3274 Sauer Paul R AT-2879  
3275 Rielinger A H WO-1345  
3276 Du-Pan Susan ME-9691  
3279 Gates Edw J ME-5553  
3292 Shripley Ethel M R WO-4674  
3296 Cernik John P WO-1299  
3296 Eyleson Paul ME-4575  
3300 Hamamey Helen ME-5248  
3300 Turner Bruce ME-5248  
3311 Glenn Cartage Co ME-3566  
3322 Hill Granville WO-9222  
3322 Pockis Jos AT-1995  
3326 Vargo Frank ME-5178  
3328 Marlini Chas ME-2833  
3332 McGregor Hugh AT-0231  
3336 Schmidt Edw J ME-9350  
3336 Vissusky Frank ME-9058  
3337 Cleve City Of

For Electric Light and Power Service THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

Call CHERRY 4200

The Doty McCaslin Co. Building Management Real Estate Appraisals Insurance Member Cleveland Real Estate Board Williamson Bldg. Main 4386 Berea Post Office Block Phone 853

W 65TH ST SW (H-8) - From Denison av to Barberton av south
2120 Waldeck Robinson
2124 Denison Wm
Elmer et interests
2120 Bruno Nellie T Mrs
2121 Klein Mrs
2128 Zeman Frank
21210 Nemeth Wm L
21211 Louiska Miel
21212 Lakatos Steph
21213 Klein Marie Mrs
21214 Keschik Mrs
21215 Pomykny John real est
21216 Murphy Jas
21217 Jaksic Kath Mrs

2120 DiBello Marco
21202 Buzalero Mary Mrs
21203 Julia Adam
21204 Corone Frank
21205 DiBello Dominick
21206 Danilutti John
21207 Denison Wm
21208 Weak Lewis F
21209 Concilio Jos
21210 Pompeati Angelo
21211 DiMassa Pietro
21212 Basciotta Louis
21213 Daugenti Peter
21214 Denison Wm
21215 DiBello Santo
21216 DiBello Salvatore
21217 Denison Wm
21218 Cook Nicholas
21219 Coletto Antonio
21220 Lafranco Domenico
21221 Paulhaber Frank J
21222 Barge Gilbert E
21223 Zimmer Adolph N
21224 Neumann Mary Mrs
21225 Stein Jos F
21226 Denison Wm
21227 Elmer et interests
21228 Stein Ralph H
21229 Kren Frank
21230 Davies Wm J
21231 Malloy Anthony
21232 Hartley Geo
21233 Kreny John J
21234 Kambolis Dan
21235 Stefan Mary B Mrs
21236 Costanzo Anthony
21237 Denison Wm
21238 Vellony Nicholas P
21239 Vellony Anthony L
21240 Denison Wm
21241 Parente Frank
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W 68TH PL SW (H-8) - From Seine et to Camden av (No houses)
21291 Denison Wm
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21318 Denison Wm
21319 Denison Wm
21320 Denison Wm

W 68TH ST SW (H-8) - From Hague av to Conrad av, Clark av to Big Four RR
21321 Zimmer Geo L
21322 Zucchari Peter
21323 Winkler Helen
21324 Kiavis Leo A
21325 Novak Frank J trucking
21326 Kent Harvey D
21327 Lewis Ora
21328 Williamson Henrietta
21329 Mrs. Heagy John
21330 Roseberry Mrs
21331 Hemmattich
21332 Robacker Phillo L
21333 Denison Wm
21334 Semoy Louis J
21335 Radel Andrew
21336 Denison Wm
21337 Redefield Carl F
21338 Creadon Wm F
21339 Denison Wm
21340 Heidinger Chas W
21341 Yarwood John J
21342 Paulhaber Frank J
21343 Barge Gilbert E
21344 Zimmer Adolph N
21345 Neumann Mary Mrs
21346 Stein Jos F
21347 Denison Wm
21348 Elmer et interests
21349 Stein Ralph H
21350 Kren Frank
21351 Davies Wm J
21352 Malloy Anthony
21353 Hartley Geo
21354 Kreny John J
21355 Kambolis Dan
21356 Stefan Mary B Mrs
21357 Costanzo Anthony
21358 Denison Wm
21359 Vellony Nicholas P
21360 Vellony Anthony L
21361 Denison Wm
21362 Parente Frank
21363 Denison Wm
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W 68TH PL SW (H-8) - From Seine et to Camden av (No houses)
21371 Denison Wm
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W 70TH ST SW (H-8) - From Clark av to Big Four RR
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21418 Denison Wm
21419 Denison Wm
21420 Denison Wm
21421 Denison Wm
21422 Denison Wm
21423 Denison Wm
21424 Denison Wm
21425 Denison Wm
21426 Denison Wm
21427 Denison Wm
21428 Denison Wm
21429 Denison Wm
21430 Denison Wm

W 71ST ST SW (H-8) - From Franklin bvd to Wakefield av
21431 Denison Wm
21432 Denison Wm
21433 Denison Wm
21434 Denison Wm
21435 Denison Wm
21436 Denison Wm
21437 Denison Wm
21438 Denison Wm
21439 Denison Wm
21440 Denison Wm
21441 Denison Wm
21442 Denison Wm
21443 Denison Wm
21444 Denison Wm
21445 Denison Wm
21446 Denison Wm
21447 Denison Wm
21448 Denison Wm
21449 Denison Wm
21450 Denison Wm
21451 Denison Wm
21452 Denison Wm
21453 Denison Wm
21454 Denison Wm
21455 Denison Wm
21456 Denison Wm
21457 Denison Wm
21458 Denison Wm
21459 Denison Wm
21460 Denison Wm

Metzger General Insurance HICKOX BLDG. - CHERRY 5860 Metzger Surety Bonds

CLEVELAND ADDRESS TELEPHONE DIRECTORY

WEST 65th ST NW  
(Continued)

Cleve Trust Co  
Lorain-85th St Branch .....EV-2944  
Gordon Sq Hotel .....EV-2011  
Gordon Sq Hotel .....EV-5071  
Gordon Square Mkt .....WO-9848  
Institute of Family Serv Assn  
ciated Charities Edgewater Ofc.WO-5230  
New York Central Lines  
Yardmaster .....WO-1246  
Smith L J MD ofc .....WO-3010  
Steinle Wolfe Constr Co.....WO-4891

WEST 65th ST SW

2007 Sisters of St Joseph .....WO-0936  
2008 Don's Confectionery .....EV-5139  
2008 Link Edna .....EV-1095-5  
2027 St Coleman Church .....WO-4977  
2034 Serrin H & Son .....ME-7020  
2050 Socony-Vacuum Oil Co West Side  
Serv Sta .....WO-9862  
2059 Robert C J F .....EV-1536-R  
2063 Manning Mollie E F .....EV-4802  
2063 Roberts Thos W .....WO-4802  
2071 Huttlinger Anthony G r .....WO-7765-W  
2080 Eucker J N Gomer shop.....ME-0964  
2082 LORAIN 65th BUILDING  
Cleve Trust Co Lorain-65th St  
Branch .....WO-2944  
Fallon F G MD .....WO-8039  
Haas P A DDS .....ME-0978  
Hannibal John E Dr .....ME-2613  
Rogers Wm J MD .....ME-0950  
Steyer C E MD .....ME-1508

2110 Twichell Frances L r .....EV-5092-R  
2114 Rhodes Martha J r .....EV-5092-J  
2114 Wemmer Lucille J r .....EV-5092-J  
2119 O'Toole Austin J .....EV-1435-J  
2123 Rapp J S r .....EV-1435-R  
2136 Gordon School .....WO-1753  
2136 Gordon School  
Attendance Center .....ME-4989  
Attendance Center .....ME-4997  
2137 Rowarth G T .....WO-9757  
2157 Ace Awning Co .....WO-2270  
2157 Hasselo Awning Co .....WO-2270  
2157 Hasselo Sales Co .....WO-2270  
2165-1 Vining Vera r .....EV-2407-M  
2174 Wiemels Stephen H r .....WO-9497-W  
2177 Perko Geo r .....EV-3032-W  
2187 Kappert Art r .....WO-6633-W  
2188 Schuerger Am r .....EV-5662-W  
2190 Wehr F Wm r .....WO-4466-W  
2191 Seith W L Rev r .....ME-3008-J  
2196 Byrne John J r .....EV-434-W  
2202 Burns Hortelme D r .....EV-5083-R  
2216 Pflager John r .....ME-1032-J  
2221 Walsh Joseph W r .....ME-1032-J  
2225 Sylvester Wm R r .....EV-3017-W  
2229 Knopf Estelle Mrs r .....EV-0278-W  
2237 Anthony Elizabeth Miss r .....EV-3460-J  
2245 Holl John r .....EV-3460-W  
2246 McCarthy John J .....WO-9883  
2260 Goodyear Service .....ME-2900  
2275 Korecky Mary restrnt.....EV-6336  
2187 Koblenzer Bros .....WO-0137  
2187 Koblenzer Bros .....WO-0138  
2187 Koblenzer Bros .....WO-0139  
2199 Gibbs Earl C .....WO-6600  
2199 Gibbs Slaughter House .....WO-6600  
2199 Hughes Provision Co .....WO-6600

3200 LIVE STOCK EXCHANGE BLDG  
Barton Floyd .....WO-2238  
Barton Live Stock Commission .....WO-2238  
Cleve Union Stock Yards Co. ME-6172  
Consolidated Commission Co. WO-2183  
Faden Warren B .....WO-3060  
Grain Drying Co The .....WO-3060  
Nat'l Live Stock Commission Co. WO-0227  
Nesbit Jas O Poultry Co. ME-1727  
New York Central Lines Live  
Stock Agent .....EV-0925  
O'Donnell H D Grain Drying  
Co .....WO-3060  
Postal Telegraph Cable Co Stock  
yards branch .....EV-1384  
Producers Cooperative  
Commission .....WO-0379  
Timerman Miner & Pesta .....ME-0628  
Trans Atlantic Freight Inc. WO-2477  
Union Freight Forwarders Inc. WO-2477  
Union Stock Yards .....ME-6172  
United States Government  
Public Stockyards Inspection WO-3208  
Western Union Telegraph Co  
Stock Yards branch .....ME-0626  
3207 Federal Packing Co .....WO-5612  
3237 Gilpin Geo S Dr .....ME-2660  
3237 Swift & Co Union Stock Yds. ME-2660  
3261 Rose D E & Co .....ME-2517  
3265 General Wrecking & Salvage Co. ME-3125  
3265 Newman Bros Wrecking & Salvage  
Co .....ME-3125  
3268 Tepper Joe & Co .....WO-4705  
3300 Fromson & Davis Co .....WO-3207  
3300 Great Lakes Packing Co .....WO-4700  
3300 Kreinberg & Krasny Inc. ME-4313  
3310 Bennett Wm J .....WO-6022  
3310 Coverett Frank J .....WO-5255

WEST 65th ST SW  
(Continued)

3310 Curtis Morse .....WO-0865  
3310 Flick Co .....WO-0743  
3310 Flick Co .....ME-0726  
3310 Osher Bros Co .....WO-4663  
3310 Read Guy S Inc. ....WO-6562  
3316 Lasko Coal & Supply Co .....WO-3250  
3325 Sebek Bros .....WO-2246  
3325 Teufel Bros .....ME-4330  
3325 Webb Co .....WO-1788  
3325 Webb Co .....WO-4145  
3325 Webb Beef Co .....ME-6262  
3335 Roth Henry E .....ME-6262  
3335 Roth J .....ME-6262  
3335 Wittner M & Co. ....ME-6262  
3378 Cleve Provision Co  
Gen'l Ofc & Plant .....WO-9000

3390 Disbarger A F .....EV-5202-J  
3391 Paloczy Irene P .....EV-1561-J  
3394 Schroeder C F r .....EV-3797-R  
3399 Lick Fred r .....ME-4329-W  
3403 Katz Ann M r .....EV-1561-R  
3414 Hadley Dorothy r .....EV-5202-W  
3421 Michalek Mary r .....EV-1728-R  
3422 O'Malley T E r .....WO-0915-J  
3428 Jaromsh John J r .....EV-0482-R  
3438 Dalny Michael r .....EV-0482-W  
3443 Newman Chas r .....EV-1744-R  
3450 Shumaker Stafford C r .....EV-5202-R  
3460 Heckman Royden F r .....EV-2858-J  
3460 Podvorac John G r .....EV-5578-J  
3509 Lush Walter W r .....EV-3719-R  
3535 Buys L F r .....EV-0629-W  
3538 Reichel C J r .....EV-1188-R  
3543 Janovich Carl r .....EV-0629-W  
3547 Klinec Jos r .....EV-1188-M  
3552 Netzel John A r .....EV-1188-J  
3555 Proppe Edw r .....EV-2072-W  
3558 Harding Elmer Geo r .....EV-2072-J

Benstead Bryans & Co. ....WO-0210  
Bower & Bower .....WO-0213  
Bryans W L .....WO-0210  
Cleve City of Public Health &  
Welfare Dept Stock Yards Ofc. WO-5352  
Colonial Woolen Mills Co W 65th  
& Barberton av. ....WO-3150  
Gordon Arcade Bldg .....WO-4264  
Greenhut Improvement Co .....WO-4264  
Kilgore R L .....WO-0210  
Riemenschneider Walter E DDS. ME-0966  
Standard Oil Co Serv Sta. ....WO-9840

WEST 66th PL SW

2200 Burns James r .....EV-1434-M  
2216 Lakatos E Mrs r .....EV-5083-J  
2226 Becker Carl Frederick r .....EV-5083-W

WEST 66th ST SW

3539 Gedeon Frank r .....EV-3500-J  
3564 Lonchanski Mita r .....EV-1463-J  
3572 Blaher J Jr r .....EV-1463-M  
3579 Klitch Chas J r .....EV-1463-W  
3588 Loftus Mary E Mrs r .....WO-0289-J

WEST 67th ST NW

1197 Cleve Chaplet & Mfg Co. ....WO-0769  
1197 Cleve Copper Ferrule Co .....WO-0769  
1197 Cleve Elbow Co .....WO-0769  
1197 Cleve Nickel Works Foundry  
Supplies .....WO-0769  
1197 Hohlfeiler F Co .....WO-0769  
1276 Vallenty N P r .....EV-2022-M  
1279 Vandino Joe r .....EV-4438-J  
1285 Piliot Alfonso M r .....ME-3027-J  
1337 Patton M A r .....EV-1836-R  
1341 Konker Henry W r .....EV-1836-W  
1359 Wright K L Brass Foundry .....WO-2063

WEST 67th ST SW

2129 Deers Thomas G r .....EV-1334-M  
2141 Garvey John r .....EV-1334-W  
2143 Madden Geo B r .....EV-5248-J  
2159 Getz Joseph r .....EV-5248-W  
2176 Henrietta Beauty Shoppe .....ME-0970  
2181 Heppner Fred J r .....EV-1333-W  
2185 Faulhaber Frank r .....ME-0736  
2186 Barge Gilbert E r .....EV-4854-J  
2190 Stein Jos P r .....EV-4856-J  
2192 Stein Ralph F .....EV-4856-M  
2195 Davies W J r .....EV-1434-J  
2217 Riedel E H r .....EV-4457-R  
2219 Hart John Mrs r .....EV-4848-W  
2223 Brunington Margaret M r .....EV-3831-W  
3536 Schmidt Rose r .....WO-4459-J  
3539 Garrett Olga L Mrs r .....ME-2789-J  
3539 Garrett Raymond F .....EV-4401-R  
3552 McCormick J P r .....EV-4401-J  
3552 Farkas Margaret .....EV-0079-J  
3560 Broz Josephine r .....WO-5678  
3584 Hawthorne Coal Co .....WO-1764  
3584 Reliable Coal Co .....WO-5678  
3584 Rosebud Coal Co .....WO-5678  
McCarthy Mfg & Supply Co. ....EV-1084  
Standard Oil Co serv sta .....WO-9278

WEST 68th ST SW

3122 Traeg Olga r .....EV-2502-R  
3133 Javorka Wm F .....EV-2502-W  
3150 Hayek Chas F .....EV-2502-M  
3152 Empira Frank r .....EV-2502-J  
3159 Empira Marble Co. ....ME-2463  
Leng Dressed Beef Co W 68th &  
Big 4 RR. ....ME-5620  
Marks & Sons .....ME-5320  
Phillip's Provision Co. ....ME-3186  
Segal Bros cor W 68th & Big 4 RR. ME-0659

WEST 69th ST NW

1210 Air Reduction Sales Co. ....WO-1221  
1210 Davis Bournville Co. ....WO-1221  
1210 Nutt Carbide Sales Corp. ....WO-1221  
1210 Pure Carbonic Inc. ....WO-1221  
1248 Zitiello P r .....WO-3975  
1249 Zitiello J r .....EV-2022-W  
1280 Zitiello Peter r .....EV-1658-J  
1282 Fusco Thad r .....WO-2394-J  
1292 Fiocca Bros Bakery .....WO-9881  
1292 Fiocca Corradino .....WO-9881  
1296 Zitiello Luigi r .....ME-4400-W  
1302 Manco Frank r .....WO-6382  
1311 Biagiotti Eliseo Dr .....WO-2356  
1311 Biagiotti Eliseo Dr r .....WO-2356  
1362 Isabella Bros .....WO-1586  
1365 Caporaso Louis r .....EV-1409-J  
1369 Marinella Jerry r .....EV-1409-M  
1377 LaGuardia Joseph r .....WO-0952-J  
1380 Rose Karl r .....EV-1752-M  
1658 Baldwin G T DDS r .....EV-1752-W  
1662 Black T George r .....EV-3270-M  
1674 Pruss Frank Mrs r .....WO-9724  
1682 Wright H R .....EV-1692-J  
1686 Law James S r .....EV-0597-J  
1690 Webb Alice M Mrs r .....EV-4290-R  
1694 Stoffel Louis r .....WO-8513-W  
1701 Chicago Clyde L r .....WO-8513-W  
1701 Gaede J W r .....ME-0890  
1702 Brennan Isabell M F .....ME-0890  
1710 Martin Thos r .....EV-2661-M  
1717 Annable Chas V r .....EV-1958-W

WEST 69th ST SW

3538 Palko Mary A r .....EV-4431-R  
3548 Schmiel Irene r .....ME-1726-J  
3558 Luksoe Joe r .....WO-1062  
3587 Walsh F H r .....WO-2320-J  
3600 Atlas Foundry Co .....WO-2014

WEST 70th ST NW

1294 Acme Rayon Corp. ....WO-6661  
1318 Vrana Frank r .....EV-1477-J  
1320 Taylor Frank r .....EV-1658-R  
1326 Perry A r .....EV-1477-R  
1348 Lakewood Lounge Co. ....WO-5439  
1360 Globe Pattern & Mfg Co. ....WO-1159  
1366 Commercial Screw Products Inc. WO-2711  
1366 General Scrap Products Co. ....WO-5630  
1366 Stuart-Bates Electric Manicure  
Co .....WO-6370

WEST 70th ST SW

3120 Gerstacker Irene Miss r .....EV-1330-R  
3121 Zingelman R r .....ME-6306-W  
3129 Bryson J G r .....EV-4045-J  
3131 Bunsey F F r .....EV-3438-J  
3136 Harmon Lucille B r .....EV-4981-M  
3145 Kummerten L r .....EV-3438-R  
3150 Augustime Wm r .....WO-0931-J  
3153 Keller Fred r .....EV-0999-M  
3194 Coleman Herbert T r .....EV-5183-J  
Colorcraft Co .....WO-7650  
Hascall Paint Co .....WO-7650  
Manhattan Paint Co .....WO-7650  
Monarch Paint Co .....WO-7650  
Tropical Paint & Oil Co. ....WO-7650  
Union Products Co .....WO-7650

WEST 71st ST SW

3116 Ihlenfeld Elsie Miss r .....EV-4674-J  
3117 Gajevski Paul r .....ME-6354-W  
3129 Keich Anna Mrs r .....EV-1978-R  
3134 Meyer Frank E r .....EV-1978-J  
3135 Freedman F C r .....EV-4724-R  
3135 Mansfield Clyde R r .....EV-0288-W  
3172 Eichler George C r .....EV-5183-M  
3172 Janke Robt R r .....EV-0846-M  
3184 Hofkensky L Miss r .....EV-1406-W  
3185 Olsen Olaf r .....EV-5183-W

WEST 73d ST NW

1284 Wheelidin Geo r .....WO-0915-J  
1293 Lincoln Coal Co .....WO-3020  
1350 Cleve Plate Cooling Co .....WO-4341  
1354 Cusick D J r .....EV-4166-M  
1364 Lowry Robt .....EV-1299-M  
1368 Smith Katherine Mrs r .....EV-2346-W  
1372 Diederichs Carl L r .....EV-2346-R  
1376 Ziegelmeyer E G r .....WO-7168-W  
1382 Reese Thos E r .....WO-1368-J  
1386 Dorn Wm U r .....WO-0455  
1893 Cowles Rita B .....ME-5952-W  
1895 Dever A V Mrs r .....ME-0265-R  
1896 Hawley Bill r .....EV-1954-W  
1897 Smyth Howard L r .....EV-1954-R  
1899 Kelly Alice F Miss r .....EV-2940-J  
1903 Gibson J D r .....EV-2940-M  
1905 Gallagher Michael E r .....EV-2940-M  
1911 Duckey Sign Service .....ME-6749  
1913 Vanderweyl Elmer J r .....EV-2940-R  
1917 Hauser Roy r .....EV-3199-J  
1921 Dickerson Chas V r .....EV-1988-W  
1921 Dickerson J Mrs r .....EV-1850-J  
1928 Anderson J Mrs r .....EV-2737-R  
1929 Estel Carol Mrs r .....EV-1995-M  
1930 Taylor Wm J r .....EV-4345-W  
1932 Artt Ole r .....EV-1307-M  
1934 Parker H J r .....EV-1850-M  
1938 Handy Louis r .....EV-5644-W  
1942 Mc Guinness F L r .....EV-3212-R  
Natl Carbon Co .....ME-3100

WEST 73d ST SW

2016 Frass L r .....EV-2724-J  
2020 Godfrey Goldie r .....WO-4595-J  
2044 Lazar Confectionery .....EV-5522  
2055 A A Co .....WO-0799  
2055 Bargain Oil Co .....WO-9577  
2055 Conser's Oil Store .....WO-0799  
2055 White Front General Store .....WO-0799  
2122 Herrlich L Gas Sta. ....EV-5498  
2123 Krister J .....WO-9694  
2123 Bawe J L r .....ME-2119  
2186 Ehrbar John r .....EV-5847-J  
2204 Holmok Ed r .....EV-0827-R  
2204 Krause Alfred J r .....ME-2035-J  
2205 Kloss Jos .....EV-5373-R  
2212 Mesker John L .....EV-4361  
2213 Steyer's Beer Garden .....ME-5914  
2224 Shea Alice E r .....EV-0476-M  
2225 Kaehny Aug r .....EV-5373-J  
2228 Gazur Paul A r .....ME-4491-W  
2260 Pangel Jos r .....EV-4095-R  
2263 Shell Petroleum Corp serv sta EV-9712  
2270 McCreary's Confy .....WO-5879  
3106 Nischalski Chas r .....WO-3142-J  
3110 Macek Chas .....WO-9518  
3115 Hawver F E r .....EV-4674-M  
3120 Stoll Wm J & Son .....WO-2341  
3121 Oberle Louis r .....EV-4674-R  
3126 Borth Frank C r .....EV-4913-W  
3130 Hruby Joseph .....WO-9568  
3133 March Ruth A r .....EV-3047-M  
3133 Rauffer Sophia Mrs r .....EV-3047-J  
3136 King's Dry Cng & Tailoring .....WO-8960  
3140 Palmer J W r .....EV-4901-W  
3140 Swonger Jas r .....EV-3879-M  
3145 Fawley Kathryn M r .....EV-0078-R  
3148 Phillips Howard A r .....ME-0095  
3153 Moore Funeral Home Inc. ....EV-2899-M  
3158 Moore John r .....WO-5445  
3171 Karban Frank .....WO-2327  
3173 Knarr Geo J .....WO-9855  
3181 Fisher Bros Co .....WO-8543  
3194 Powers & Co amngs .....EV-4880-W  
3195 Neumann Katherine r .....EV-4880-R  
3206 Backer John r .....EV-4880-R  
3204 Medve John r .....EV-4880-J  
3208 Kesselmeier Henry r .....EV-0837-J  
3212 Kestmeyer Geo r .....EV-1920-R  
3223 Eiben's Beauty Shop .....ME-5660  
3223 Eiben Lottie .....ME-5660  
3223 Home Permanent Wave Shop .....ME-5660  
3224 Wagner E L .....EV-5275-W  
3228 Fetke Frank r .....EV-9511  
3229 Knippenberg Karl E r .....EV-9511  
3229 Mother's Lunch .....EV-4818-W  
3236 Midget John r .....EV-4818-R  
3244 Klostermeyer F r .....EV-1038-J  
3256 Jacobs Edw r .....WO-3013-J  
3264 Hennings Jack r .....EV-1039-R  
3272 Vonker Geo F r .....EV-4870-W  
3274 Krenz L r .....EV-4412-J  
3275 Rieflinger A r .....EV-2910-J  
3296 Roy R r .....EV-2910-J  
3311 Perfection Steel Co .....WO-7445

INSURANCE COMPANY FUNDS

A. F. PHASE

509 GUARDIAN BLDG. CHERRY 1293

REAL ESTATE LOANS

W 82TH ST NW (H-7) From N Y C R to De-... 1714 Baumgartner Richd 1717 O'Connor Pat 1718 Annolik Chas O 1719 Haverhill John H 1720 Haloran Martin E 1721 Duran John T 1722 McAnamoy John W 1723 Moran John T

W 78TH ST NW (H-5) From Franklin Blvd to Washfield av 1844 Wallace Johannes Mrs 1845 Moravitz Carl 1846 Foster Frank 1847 Nicolic Frank O 1848 Stroud Hott J 1849 Strauch Jacob 1850 Falco John E 1851 Metro Paul 1852 Faltin Otto 1853 Wachtel Theresia Mrs 1854 Schindler Anna L O 1855 Perry J Stuart 1856 Hufes John 1857 Rilly Paul 1858 Gendson Carl J 1859 Toth Joe 1860 Arlian Joe 1861 Lukic Joe 1862 Spita Andrew O 1863 Kutnak Joe O 1864 Wocierowski John 1865 Lockwood John 1866 Frank 1867 Halach Geo 1868 Halach Andrew 1869 Toth Geo 1870 Berka Michl 1871 Holik John 1872 Holik Andrew 1873 Bencherit Adolph O 1874 Holak John 1875 Ockel Andrew 1876 Fackler Fred O 1877 Hensy Joe 1878 Poval Frank 1879 Hovis Frank 1880 Eshk Mary E 1881 Eshk Blare Mrs 1882 Eshk Christ O 1883 WALKER Atlas Fred O

W 71ST ST NW (H-3) From Washfield av to Washfield av 1844 Wallace Johannes Mrs 1845 Moravitz Carl 1846 Foster Frank 1847 Nicolic Frank O 1848 Stroud Hott J 1849 Strauch Jacob 1850 Falco John E 1851 Metro Paul 1852 Faltin Otto 1853 Wachtel Theresia Mrs 1854 Schindler Anna L O 1855 Perry J Stuart 1856 Hufes John 1857 Rilly Paul 1858 Gendson Carl J 1859 Toth Joe 1860 Arlian Joe 1861 Lukic Joe 1862 Spita Andrew O 1863 Kutnak Joe O 1864 Wocierowski John 1865 Lockwood John 1866 Frank 1867 Halach Geo 1868 Halach Andrew 1869 Toth Geo 1870 Berka Michl 1871 Holik John 1872 Holik Andrew 1873 Bencherit Adolph O 1874 Holak John 1875 Ockel Andrew 1876 Fackler Fred O 1877 Hensy Joe 1878 Poval Frank 1879 Hovis Frank 1880 Eshk Mary E 1881 Eshk Blare Mrs 1882 Eshk Christ O 1883 WALKER Atlas Fred O

W 70TH ST NW (H-2) From Desires av south 3249 Johnson Nelson C 3250 Nicolic Frank O 3251 3252 3253 3254 3255 3256 3257 3258 3259 3260 3261 3262 3263 3264 3265 3266 3267 3268 3269 3270 3271 3272 3273 3274 3275 3276 3277 3278 3279 3280 3281 3282 3283 3284 3285 3286 3287 3288 3289 3290 3291 3292 3293 3294 3295 3296 3297 3298 3299 3300 3301 3302 3303 3304 3305 3306 3307 3308 3309 3310 3311 3312 3313 3314 3315 3316 3317 3318 3319 3320 3321 3322 3323 3324 3325 3326 3327 3328 3329 3330 3331 3332 3333 3334 3335 3336 3337 3338 3339 3340 3341 3342 3343 3344 3345 3346 3347 3348 3349 3350 3351 3352 3353 3354 3355 3356 3357 3358 3359 3360 3361 3362 3363 3364 3365 3366 3367 3368 3369 3370 3371 3372 3373 3374 3375 3376 3377 3378 3379 3380 3381 3382 3383 3384 3385 3386 3387 3388 3389 3390 3391 3392 3393 3394 3395 3396 3397 3398 3399 3400 3401 3402 3403 3404 3405 3406 3407 3408 3409 3410 3411 3412 3413 3414 3415 3416 3417 3418 3419 3420 3421 3422 3423 3424 3425 3426 3427 3428 3429 3430 3431 3432 3433 3434 3435 3436 3437 3438 3439 3440 3441 3442 3443 3444 3445 3446 3447 3448 3449 3450 3451 3452 3453 3454 3455 3456 3457 3458 3459 3460 3461 3462 3463 3464 3465 3466 3467 3468 3469 3470 3471 3472 3473 3474 3475 3476 3477 3478 3479 3480 3481 3482 3483 3484 3485 3486 3487 3488 3489 3490 3491 3492 3493 3494 3495 3496 3497 3498 3499 3500 3501 3502 3503 3504 3505 3506 3507 3508 3509 3510 3511 3512 3513 3514 3515 3516 3517 3518 3519 3520 3521 3522 3523 3524 3525 3526 3527 3528 3529 3530 3531 3532 3533 3534 3535 3536 3537 3538 3539 3540 3541 3542 3543 3544 3545 3546 3547 3548 3549 3550 3551 3552 3553 3554 3555 3556 3557 3558 3559 3560 3561 3562 3563 3564 3565 3566 3567 3568 3569 3570 3571 3572 3573 3574 3575 3576 3577 3578 3579 3580 3581 3582 3583 3584 3585 3586 3587 3588 3589 3590 3591 3592 3593 3594 3595 3596 3597 3598 3599 3600 3601 3602 3603 3604 3605 3606 3607 3608 3609 3610 3611 3612 3613 3614 3615 3616 3617 3618 3619 3620 3621 3622 3623 3624 3625 3626 3627 3628 3629 3630 3631 3632 3633 3634 3635 3636 3637 3638 3639 3640 3641 3642 3643 3644 3645 3646 3647 3648 3649 3650 3651 3652 3653 3654 3655 3656 3657 3658 3659 3660 3661 3662 3663 3664 3665 3666 3667 3668 3669 3670 3671 3672 3673 3674 3675 3676 3677 3678 3679 3680 3681 3682 3683 3684 3685 3686 3687 3688 3689 3690 3691 3692 3693 3694 3695 3696 3697 3698 3699 3700 3701 3702 3703 3704 3705 3706 3707 3708 3709 3710 3711 3712 3713 3714 3715 3716 3717 3718 3719 3720 3721 3722 3723 3724 3725 3726 3727 3728 3729 3730 3731 3732 3733 3734 3735 3736 3737 3738 3739 3740 3741 3742 3743 3744 3745 3746 3747 3748 3749 3750 3751 3752 3753 3754 3755 3756 3757 3758 3759 3760 3761 3762 3763 3764 3765 3766 3767 3768 3769 3770 3771 3772 3773 3774 3775 3776 3777 3778 3779 3780 3781 3782 3783 3784 3785 3786 3787 3788 3789 3790 3791 3792 3793 3794 3795 3796 3797 3798 3799 3800 3801 3802 3803 3804 3805 3806 3807 3808 3809 3810 3811 3812 3813 3814 3815 3816 3817 3818 3819 3820 3821 3822 3823 3824 3825 3826 3827 3828 3829 3830 3831 3832 3833 3834 3835 3836 3837 3838 3839 3840 3841 3842 3843 3844 3845 3846 3847 3848 3849 3850 3851 3852 3853 3854 3855 3856 3857 3858 3859 3860 3861 3862 3863 3864 3865 3866 3867 3868 3869 3870 3871 3872 3873 3874 3875 3876 3877 3878 3879 3880 3881 3882 3883 3884 3885 3886 3887 3888 3889 3890 3891 3892 3893 3894 3895 3896 3897 3898 3899 3900 3901 3902 3903 3904 3905 3906 3907 3908 3909 3910 3911 3912 3913 3914 3915 3916 3917 3918 3919 3920 3921 3922 3923 3924 3925 3926 3927 3928 3929 3930 3931 3932 3933 3934 3935 3936 3937 3938 3939 3940 3941 3942 3943 3944 3945 3946 3947 3948 3949 3950 3951 3952 3953 3954 3955 3956 3957 3958 3959 3960 3961 3962 3963 3964 3965 3966 3967 3968 3969 3970 3971 3972 3973 3974 3975 3976 3977 3978 3979 3980 3981 3982 3983 3984 3985 3986 3987 3988 3989 3990 3991 3992 3993 3994 3995 3996 3997 3998 3999 4000 4001 4002 4003 4004 4005 4006 4007 4008 4009 4010 4011 4012 4013 4014 4015 4016 4017 4018 4019 4020 4021 4022 4023 4024 4025 4026 4027 4028 4029 4030 4031 4032 4033 4034 4035 4036 4037 4038 4039 4040 4041 4042 4043 4044 4045 4046 4047 4048 4049 4050 4051 4052 4053 4054 4055 4056 4057 4058 4059 4060 4061 4062 4063 4064 4065 4066 4067 4068 4069 4070 4071 4072 4073 4074 4075 4076 4077 4078 4079 4080 4081 4082 4083 4084 4085 4086 4087 4088 4089 4090 4091 4092 4093 4094 4095 4096 4097 4098 4099 4100 4101 4102 4103 4104 4105 4106 4107 4108 4109 4110 4111 4112 4113 4114 4115 4116 4117 4118 4119 4120 4121 4122 4123 4124 4125 4126 4127 4128 4129 4130 4131 4132 4133 4134 4135 4136 4137 4138 4139 4140 4141 4142 4143 4144 4145 4146 4147 4148 4149 4150 4151 4152 4153 4154 4155 4156 4157 4158 4159 4160 4161 4162 4163 4164 4165 4166 4167 4168 4169 4170 4171 4172 4173 4174 4175 4176 4177 4178 4179 4180 4181 4182 4183 4184 4185 4186 4187 4188 4189 4190 4191 4192 4193 4194 4195 4196 4197 4198 4199 4200 4201 4202 4203 4204 4205 4206 4207 4208 4209 4210 4211 4212 4213 4214 4215 4216 4217 4218 4219 4220 4221 4222 4223 4224 4225 4226 4227 4228 4229 4230 4231 4232 4233 4234 4235 4236 4237 4238 4239 4240 4241 4242 4243 4244 4245 4246 4247 4248 4249 4250 4251 4252 4253 4254 4255 4256 4257 4258 4259 4260 4261 4262 4263 4264 4265 4266 4267 4268 4269 4270 4271 4272 4273 4274 4275 4276 4277 4278 4279 4280 4281 4282 4283 4284 4285 4286 4287 4288 4289 4290 4291 4292 4293 4294 4295 4296 4297 4298 4299 4300 4301 4302 4303 4304 4305 4306 4307 4308 4309 4310 4311 4312 4313 4314 4315 4316 4317 4318 4319 4320 4321 4322 4323 4324 4325 4326 4327 4328 4329 4330 4331 4332 4333 4334 4335 4336 4337 4338 4339 4340 4341 4342 4343 4344 4345 4346 4347 4348 4349 4350 4351 4352 4353 4354 4355 4356 4357 4358 4359 4360 4361 4362 4363 4364 4365 4366 4367 4368 4369 4370 4371 4372 4373 4374 4375 4376 4377 4378 4379 4380 4381 4382 4383 4384 4385 4386 4387 4388 4389 4390 4391 4392 4393 4394 4395 4396 4397 4398 4399 4400 4401 4402 4403 4404 4405 4406 4407 4408 4409 4410 4411 4412 4413 4414 4415 4416 4417 4418 4419 4420 4421 4422 4423 4424 4425 4426 4427 4428 4429 4430 4431 4432 4433 4434 4435 4436 4437 4438 4439 4440 4441 4442 4443 4444 4445 4446 4447 4448 4449 4450 4451 4452 4453 4454 4455 4456 4457 4458 4459 4460 4461 4462 4463 4464 4465 4466 4467 4468 4469 4470 4471 4472 4473 4474 4475 4476 4477 4478 4479 4480 4481 4482 4483 4484 4485 4486 4487 4488 4489 4490 4491 4492 4493 4494 4495 4496 4497 4498 4499 4500 4501 4502 4503 4504 4505 4506 4507 4508 4509 4510 4511 4512 4513 4514 4515 4516 4517 4518 4519 4520 4521 4522 4523 4524 4525 4526 4527 4528 4529 4530 4531 4532 4533 4534 4535 4536 4537 4538 4539 4540 4541 4542 4543 4544 4545 4546 4547 4548 4549 4550 4551 4552 4553 4554 4555 4556 4557 4558 4559 4560 4561 4562 4563 4564 4565 4566 4567 4568 4569 4570 4571 4572 4573 4574 4575 4576 4577 4578 4579 4580 4581 4582 4583 4584 4585 4586 4587 4588 4589 4590 4591 4592 4593 4594 4595 4596 4597 4598 4599 4600 4601 4602 4603 4604 4605 4606 4607 4608 4609 4610 4611 4612 4613 4614 4615 4616 4617 4618 4619 4620 4621 4622 4623 4624 4625 4626 4627 4628 4629 4630 4631 4632 4633 4634 4635 4636 4637 4638 4639 4640 4641 4642 4643 4644 4645 4646 4647 4648 4649 4650 4651 4652 4653 4654 4655 4656 4657 4658 4659 4660 4661 4662 4663 4664 4665 4666 4667 4668 4669 4670 4671 4672 4673 4674 4675 4676 4677 4678 4679 4680 4681 4682 4683 4684 4685 4686 4687 4688 4689 4690 4691 4692 4693 4694 4695 4696 4697 4698 4699 4700 4701 4702 4703 4704 4705 4706 4707 4708 4709 4710 4711 4712 4713 4714 4715 4716 4717 4718 4719 4720 4721 4722 4723 4724 4725 4726 4727 4728 4729 4730 4731 4732 4733 4734 4735 4736 4737 4738 4739 4740 4741 4742 4743 4744 4745 4746 4747 4748 4749 4750 4751 4752 4753 4754 4755 4756 4757 4758 4759 4760 4761 4762 4763 4764 4765 4766 4767 4768 4769 4770 4771 4772 4773 4774 4775 4776 4777 4778 4779 4780 4781 4782 4783 4784 4785 4786 4787 4788 4789 4790 4791 4792 4793 4794 4795 4796 4797 4798 4799 4800 4801 4802 4803 4804 4805 4806 4807 4808 4809 4810 4811 4812 4813 4814 4815 4816 4817 4818 4819 4820 4821 4822 4823 4824 4825 4826 4827 4828 4829 4830 4831 4832 4833 4834 4835 4836 4837 4838 4839 4840 4841 4842 4843 4844 4845 4846 4847 4848 4849 4850 4851 4852 4853 4854 4855 4856 4857 4858 4859 4860 4861 4862 4863 4864 4865 4866 4867 4868 4869 4870 4871 4872 4873 4874 4875 4876 4877 4878 4879 4880 4881 4882 4883 4884 4885 4886 4887 4888 4889 4890 4891 4892 4893 4894 4895 4896 4897 4898 4899 4900 4901 4902 4903 4904 4905 4906 4907 4908 4909 4910 4911 4912 4913 4914 4915 4916 4917 4918 4919 4920 4921 4922 4923 4924 4925 4926 4927 4928 4929 4930 4931 4932 4933 4934 4935 4936 4937 4938 4939 4940 4941 4942 4943 4944 4945 4946 4947 4948 4949 4950 4951 4952 4953 4954 4955 4956 4957 4958 4959 4960 4961 4962 4963 4964 4965 4966 4967 4968 4969 4970 4971 4972 4973 4974 4975 4976 4977 4978 4979 4980 4981 4982 4983 4984 4985 4986 4987 4988 4989 4990 4991 4992 4993 4994 4995 4996 4997 4998 4999 5000 5001 5002 5003 5004 5005 5006 5007 5008 5009 5010 5011 5012 5013 5014 5015 5016 5017 5018 5019 5020 5021 5022 5023 5024 5025 5026 5027 5028 5029 5030 5031 5032 5033 5034 5035 5036 5037 5038 5039 5040 5041 5042 5043 5044 5045 5046 5047 5048 5049 5050 5051 5052 5053 5054 5055 5056 5057 5058 5059 5060 5061 5062 5063 5064 5065 5066 5067 5068 5069 5070 5071 5072 5073 5074 5075 5076 5077 5078 5079 5080 5081 5082 5083 5084 5085 5086 5087 5088 5089 5090 5091 5092 5093 5094 5095 5096 5097 5098 5099 5100 5101 5102 5103 5104 5105 5106 5107 5108 5109 5110 5111 5112 5113 5114 5115 5116 5117 5118 5119 5120 5121 5122 5123 5124 5125 5126 5127 5128 5129 5130 5131 5132 5133 5134 5135 5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148 5149 5150 5151 5152 5153 5154 5155 5156 5157 5158 5159 5160 5161 5162 5163 5164 5165 5166 5167 5168 5169 5170 5171 5172 5173 5174 5175 5176 5177 5178 5179 5180 5181 5182 5183 5184 5185 5186 5187 5188 5189 5190 5191 5192 5193 5194 5195 5196 5197 5198 5199 5200 5201 5202 5203 5204 5205 5206 5207 5208 5209 5210 5211 5212 5213 5214 5215 5216 5217 5218 5219 5220 5221 5222 5223 5224 5225 5226 5227 5228 5229 5230 5231 5232 5233 5234 5235 5236 5237 5238 5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250 5251 5252 5253 5254 5255 5256 5257 5258 5259 5260 5261 5262 5263 5264 5265 5266 5267 5268 5269 5270 5271 5272 5273 5274 5275 5276 5277 5278 5279 5280 5281 5282 5283 5284 5285 5286 5287 5288 5289 5290 5291 5292 5293 5294 5295 5296 5297 5298 5299 5300 5301 5302 5303 5304 5305 5306 5307 5308 5309 5310 5311 5312 5313 5314 5315 5316 5317 5318 5319 5320 5321 5322 5323 5324 5325 5326 5327 5328 5329 5330 5331 5332 5333 5334 5335 5336 5337 5338 5339 5340 5341 5342 5343 5344 5345 5346 5347 5348 5349 5350 5351 5352 5353 5354 5355 5356 5357 5358 5359 5360 5361 5362 5363 5364 5365 5366 5367 5368 5369 5370 5371 5372 5373 5374 5375 5376 5377 5378 5379 5380 5381 5382 5383 5384 5385 5386 5387 5388 5389 5390 5391 5392 5393 5394 5395 5396 5397 5398 5399 5400 5401 5402 5403 5404 5405 5406 5407 5408 5409 5410 5411 5412 5413 5414 5415 5416 5417 5418 5419 5420 5421 5422 5423 5424 5425 5426 5427 5428 5429 5430 5431 5432 5433 5434 5435 5436 5437 5438 5439 5440 5441 5442 5443 5444 5445 5446 5447 5448 5449 5450 5451 5452 5453 5454 5455 5456 5457 5458 5459 5460 5461 5462 5463 5464 5465 5466 5467 5468 5469 5470 5471 5472 5473 5474 547

# Research Summary for City Directory Abstract

**Site Location**

Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH

**Conducted For**

The Mannik & Smith Group, Inc.  
1800 Indian Wood Circle  
Maumee, OH

**HIG Project #**

2071190

**Client Project #**

ODAS0003

**Date Created**

01/09/2023



Historical  
Information  
Gatherers

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HIG has produced a city directory abstract for one or more streets associated with the site location indicated above. The publications used to create the CD Abstract are listed below.

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The information below is taken directly from the city directory books. The following are definitions as they are found in the Haines books:

XXXX = is no phone, no people or non-published phone.

600 XXXX = Correct address only. No other information.

X Streetname = intersecting cross street

**Publication year, publisher and title**

2018 Haines Cleveland

2011 Haines Cleveland

2006 Haines Cleveland

2000-01 Haines Cleveland

1995-96 Haines Cleveland

1990 Haines Cleveland

1985 Haines Cleveland

1980 Haines Cleveland

1975 Haines Cleveland

1970 Haines Cleveland

1966 Haines Greater Cleveland

1960 Haines Greater Cleveland

**Abstract Section 1- This section includes the city directory data sorted by address.**

**7102 Dearborn Avenue**

2011	FILBIN Alice
2006	FILBIN Alice
2006	TUREK Jos
2000-01	FILBIN Alice
1995-96	TUREK Jos
1990	TUREK Jos
1985	TUREK JOS
1980	SMITH DONALD
1966	SCHAUER CAROLJNE
1960	SCHAUER CAROLJNE

**7104 Dearborn Avenue**

2018	SAPP Kenneth
2018	WALKER Janet
2011	SAPP Kenneth
2006	SAPP Kenneth
2000-01	TUREK Jos
1995-96	RICHARDS J M
1990	XXXX
1985	XXXX
1980	DIETTERICH H L
1975	DIETTERICH H L
1975	TEMKO JOS
1970	REESE M R
1970	TEMKO JOS
1966	KLAR ELIZABETH
1960	LKAR ANTHONY

**7108 Dearborn Avenue**

2011	MCCRARY Frank
2006	FLEMING Robert
2000-01	JAHNKE Warren
1995-96	XXXX
1990	HASTINGS Geo Jr
1985	HASTINGS GEO JR
1980	CLARK P

1975	JAHNKE WARREN
1970	HAVANCHAK JOEL
1966	HAVANCHAK JOEL

#### 7110 Dearborn Avenue

2018	CARRASQUILLO Josue
2018	FIGUEROA Angelica
2011	BARTON James
2006	BARTON James
2000-01	COTTOM John
1995-96	XXXX
1990	MCCANN R
1980	HARPER ROBT D
1975	XXXX
1970	FIKENBURG ROBT J
1966	RUTLEDGE ROBT

#### 7114 Dearborn Avenue

2011	HOWZE Warnell
2011	LOPEZ Michelle
2006	LOPEZ Michelle
2000-01	XXXX
1995-96	XXXX
1990	XXXX
1985	F&J CONTRS
1985	SHELVEY FRED
1980	SHELVEY FRED
1975	SHELVEY FRED
1970	PRIBOJAN MILAN
1966	XXXX

#### 7115 Dearborn Avenue

2018	RIVERSIDE CH OF GOD
2011	RIVERSIDE CH OF GOD
2006	RIVERSIDE CH OF GOD
2000-01	RIVERSIDE CH OF GOD
1995-96	RIVERSIDE CH OF GOD
1990	UNITY FREE BAPT CH
1985	UNITY FREE BAPT CH
1980	UNITY FREE BAPT CH

1975	UNITY FREE WLL BAPT
1970	CIBSON NATHAN REV
1970	UNITY BAPT CHURCH
1966	HUCK WM J
1960	ALTA FNTN FOOD EQPT

#### 7116 Dearborn Avenue

2011	JACKSON Jamah
2006	JACKSON Jamah
2000-01	HARB Jeffrey
2000-01	SCHWARZ Phillip
1995-96	XXXX
1990	XXXX
1985	XXXX
1980	XXXX
1975	WILLRICH J C
1970	WILLRICH J C
1966	WILLRICH J C
1960	GRAVA ALFRED

#### 7118 Dearborn Avenue

2018	MIRANDA M
2011	XXXX
2006	XXXX
2000-01	HOWARD Roy
1995-96	XXXX
1990	ZELEK Alan E
1985	SHAFER J
1980	XXXX
1975	XXXX
1970	MIKLACIC THS J
1966	WARD VINCENT A
1960	KRAJEWSKI VALENTINE

#### 7122 Dearborn Avenue

2000-01	VENTURA Mark
1995-96	XXXX
1990	XXXX
1985	XXXX
1980	XXXX

1975	DEMAIO FRANK
1975	KOWALSKI ALFRD J JR
1970	KOWALSKI ALFRD J JR
1966	BASSETT RICHARD L
1966	KOWALSKI ALFRD J JR
1960	LANGHARD JULIUS
1960	PELKA NORBERT

#### 7126 Dearborn Avenue

2018	RICHARDS Judy
2018	SEIBER Matthew
2011	STOHLMAN Howard
2006	STOHLMAN Howard H
2000-01	STOHLMAN Howard H
1995-96	STOHLMAN Howard H
1990	STOHLMAN Howard H
1985	STOHLMAN HOWARD H
1980	SMITH ROBERT R
1980	STOHLMAN HOWARD H
1975	SMITH ROBT R
1975	STOHLMAN HOWARD H
1970	HOLMES DANNY
1970	SMITH ROBT R
1966	XXXX
1960	PARRISH JAS

#### 7127 Dearborn Avenue

2018	METZ Danielle
2018	MODIC Louis
2011	MODIC Louis
2006	METZ Danielle
2006	MODIC Louis
2000-01	MODIC Louis
1995-96	LOVINGOOD Ernest
1990	LOVINGOOD Ernest
1985	HAHNER E M
1980	HAHNER E M
1966	HIGBEE CLARENCE J
1960	HIGBEE CLARENCE J

### 7130 Dearborn Avenue

2018	PECK Vickie
2011	PECK Amanda
2011	SOMERVILLE Sean
2006	PECK John
2000-01	PECK John F
1995-96	PECK John F
1990	PECK John F
1985	PECK JOHN F
1980	PECK JOHN F
1975	XXXX
1966	PECK MARGARET
1966	REMESNICEK JOS P
1960	BAKER GLENN

### 7131 Dearborn Avenue

2018	CHERNEY Fredrick
2011	CHERNEY M V
2006	CHERNEY M V
2000-01	CHERNEY M V
1995-96	CHERNEY M V
1990	CHERNEY Margaret
1985	CHERNEY MARGARET
1980	CHERNEY MARGARET
1975	CHERNEY FRANCES M
1975	CHERNEY MARGARET
1975	ZIESKE FRANCES M
1975	ZIESKE GARY P
1970	CHERNEY FRANCES M
1966	CHERNEY FRANCES M
1966	PETRIME THOS
1960	CHERNEY MARGARET
1960	WINKELMANN W A

### 7134 Dearborn Avenue

2018	JOHNSON Delbert
2011	JOHNSON Delbert
2011	PAPALARDO Syvester
2006	WHEATON Robert

2000-01	WHEATON Robert
1995-96	KEOVISAY Heua
1990	KUPSKI Ray
1985	KUPSKI JEAN
1980	KUPSKI JEAN
1975	KUPSKI JEAN
1970	KUPSKI JEAN
1966	KUPSKI JEAN

#### 7135 Dearborn Avenue

2018	MODIC Malinda
2011	MODIC Robbin
2006	MODIC Loius
2000-01	MODIC Loius
1995-96	XXXX
1990	XXXX
1985	GUY MILFORD D
1980	PERRIEN J W JR
1975	PERRIEN JESSE W JR
1970	PERRIEN JESSE W JR
1966	PERRIEN JESSE W JR
1960	PERRIEN JESSE W JR

#### 7138 Dearborn Avenue

2011	XXXX
2006	KIETZMAN Carol
2000-01	KEITZMAN Carol
1995-96	XXXX
1990	PHOUTHAVONG B
1985	XXXX
1980	BILL JOSEPH
1975	BILL JOS
1970	BERFNDSFN LAWRENCE
1970	TESKE WALTER
1966	TESKE WALTER
1960	COLBERT BERT
1960	HUTTON JAS W

#### 7139 Dearborn Avenue

2018	WILSON Ashley
------	---------------

2011	ROBERTO Nelly E
1995-96	PECK K A
1990	XXXX
1985	XXXX
1980	ONEILL JOHN J
1975	ONEILL JOHN J
1970	ONFILL JOHN J
1966	ONEILL JOHN J
1960	ONEILL JOHN J

#### 7140 Dearborn Avenue

2006	RAMSEY Jennialine
------	-------------------

#### 7203 Dearborn Avenue

2018	COLLADO Nathanael
2011	ARIAS Dorcas
2006	XXXX
2000-01	ADKINS Jackie L
2000-01	GOERSMEYER Robert
1995-96	PAYNE L A
1990	PAYNE T
1985	PAYNE T
1980	PAYNE T
1975	CONANT M EVA
1975	CONANT WARD H
1970	CONANT N EVA
1970	CONANT WARD H
1966	CONANT M EVA
1966	CONANT WARD H
1960	CONANT M EVA

#### 7204 Dearborn Avenue

2018	DAUGHERTY Mary
2018	SMITH Billie
2018	SMITH Hiram T
2011	DAUGHERTY Mary
2011	SMITH Jessica
2011	WARD Dan
2006	DAUGHERTY Mary
2000-01	DAUGHERTY M

1995-96	DAUGHERTY M
1990	DAUGHERTY Hugh
1985	DAUGHERTY HUGH
1980	DAUGHERTY HUGH
1975	PFENDLER DAVID
1970	KERSTEN JOHN
1966	KRIST JOS
1960	KRIST JOS
1960	FISCHER FRED J

#### 7207 Dearborn Avenue

2011	MARTIN Julia
2006	COLLINS Rickey
2006	MARTIN JULia
2000-01	COLLINS Rickey
1995-96	XXXX
1990	GREGG Gary E
1985	GREGG GARY E
1980	GREGG Gary E
1975	GREGG GARY E
1970	XXXX
1960	KOVACH JULIUS
1960	EGGERT DONALD

#### 7208 Dearborn Avenue

2018	VARGO Blanch
2011	GOGOL Connie
2006	GOGOL Connie
2000-01	BURNCHECK J
2000-01	SCHRECENGOST David
1995-96	MAID 4 DAY CLNG SRV
1990	CALFEE Tim
1985	CALFEE TIM
1980	HANNING H C
1975	HANNING H C
1970	HANNING HELEN C
1966	XXXX
1960	HANNING HELEN C

#### 7211 Dearborn Avenue

2018	HODGE Edgar
2018	HODGE Kellie J
2011	MURPHY Robert
2006	HODGE Edgar
2006	MURPHY Robert
2000-01	MURPHY Robert
2000-01	ROSSI Tony
1995-96	UNITD DREAMS CONSTR
1990	XXXX
1985	XXXX
1980	GREGG GARLD
1980	HUNTER CHAS
1975	MARKS GARY
1970	WANDLING E L
1966	HANNING HELEN C
1960	FUNTEK GARBER J

#### 7212 Dearborn Avenue

2018	CASTELLANO Luis
2018	JACOBS Christine
2011	GARDNER Monique
2011	JACOBS Christine
2006	ELKINS Rebecca
2006	KOVACIK Kathleen
2000-01	SLARS Daeron
1995-96	XXXX
1990	XXXX
1985	WRIGHT CHESTER E
1980	WRIGHT CHESTER E
1975	WRIGHT CHESTER E
1970	WRIGHT CHESTER F
1966	TOMBLIN JAS H
1960	WRIGHT CHESTER E

#### 7215 Dearborn Avenue

2018	CRUZ Ivette
2018	MARTINEZ Herrierto
2011	CRUZ Wilson
2006	CRUZ Wilson

2000-01	LABOY Lillian
1995-96	XXXX
1990	XXXX
1985	XXXX
1980	XXXX
1975	PAULUS RAYMOND
1970	BROOKS A D
1966	WRIGHT CHESTER E

#### 7216 Dearborn Avenue

2018	MARTE Maximinia
2011	CHARNEY Shirley
2006	CHARNEY Shirley
2000-01	CHARNEY Shirley
1995-96	XXXX
1990	CHARNEY George
1985	CHARNEY GEORGE
1980	CHARNEY GEORGE
1975	CHARNEY GEO
1970	CHARNEY GEO
1966	BROOKS A D
1960	BEALE ALFRED J

#### 7219 Dearborn Avenue

2018	CARDINAL Lana
2018	CARDINAL Vicent M
2011	CARDINAL L
2006	CARDINAL L
2000-01	CARDINAL Lana
1995-96	CARDINAL L
1990	WASEN Harold C
1985	WASEN HAROLD C
1980	WASEN HAROLD C
1975	WASEN HAROLD C
1970	WADEN HAORLD C
1966	BEALE ALFRED J
1960	WASEN HAROLD C

#### 7220 Dearborn Avenue

2018	TOMILSON Arthur
------	-----------------

2011	XXXX
1995-96	XXXX
1990	XXXX
1985	INEMAN JEFF D
1980	XXXX
1975	BUGESS EARL REV
1970	ANZALONE JOF
1966	WASEN HAROLD C
1960	VANNATTER WM H

#### 7222 Dearborn Avenue

2018	LAWRENCE Brian
2011	HUDSON Shainna
2006	XXXX
2000-01	BAER Clyde
2000-01	KINSER Jason R
1995-96	XXXX
1990	XXXX
1985	WELLS GREGORY JAS
1975	XXXX
1970	WEISS L A
1966	TOICH CARL L
1960	TOUCH CARL L

#### 7223 Dearborn Avenue

2018	CASS Michelina
2018	CORIANO Bethzaida
2011	CASS Michelina
2011	CORIANO Bethzaida
2006	CORIANO Bethzaida
2000-01	DAVIS Robert
1995-96	XXXX
1990	BLACKBURN Richard
1985	BLACKBURN RICHARD
1980	BLACKBURN RICHARD
1975	HARGETT EUGENE
1970	HARCETT EUGENE
1966	BURSSIK CHAS
1966	PILOT LILIAN

1960	BURSIK CHAS
1960	PILOT LILIAN

#### 7224 Dearborn Avenue

2018	CLARK Kevin
2018	THOMAS Jernaine
2011	CLARK Kevin
2006	HENRY Kenneth
2000-01	SANTIAGO Delia
1995-96	CARDINAL Carl D Jr
1990	CARDINAL Carl D Jr
1985	CARDNINAL CARL D JR
1980	MOORE PHILLIP
1975	HEPNER CHAS
1966	MCDONIE GARY
1960	KIEFER RICHD P MRS

#### 7226 Dearborn Avenue

2018	RINKOSKI Angela
2011	GORMAN Evoney
2006	XXXX
2000-01	XXXX
1995-96	XXXX
1990	OWCA Richard
1985	OWCA RICHARD
1980	OWCA RICHARD
1975	OWCA RICHARD
1970	OWCA RICHARD

#### 7227 Dearborn Avenue

2011	XXXX
2006	GARCIA Marcia
2000-01	LABOY Jesus
1995-96	XXXX
1990	XXXX
1985	XXXX
1980	MCCOY JIM
1975	COLES ROBT J
1970	WITHROW I
1966	XXXX

**Abstract Section 2: This section includes the city directory data sorted by the year the city directory was published.**

2018

	X W 71ST ST
7104	SAPP Kenneth
7104	WALKER Janet
7110	CARRASQUILLO Josue
7110	FIGUEROA Angelica
7115	RIVERSIDE CH OF GOD
7118	MIRANDA M
7126	RICHARDS Judy
7126	SEIBER Matthew
7127	METZ Danielle
7127	MODIC Louis
7130	PECK Vickie
7131	CHERNEY Fredrick
7134	JOHNSON Delbert
7135	MODIC Malinda
7139	WILSON Ashley
	X W 72ND PL
7203	COLLADO Nathanael
7204	DAUGHERTY Mary
7204	SMITH Billie
7204	SMITH Hiram T
7208	VARGO Blanch
7211	HODGE Edgar
7211	HODGE Kellie J
7212	CASTELLANO Luis
7212	JACOBS Christine
7215	CRUZ Ivette
7215	MARTINEZ Heriberto
7216	MARTE Maximinia
7219	CARDINAL Lana
7219	CARDINAL Vicent M
7220	TOMILSON Arthur

7222 LAWRENCE Brian  
7223 CASS Michelina  
7223 CORIANO Bethzaida  
7224 CLARK Kevin  
7224 THOMAS Jernaine  
7226 RINKOSKI Angela  
X 73RD ST

2011

X W 71ST ST  
7102 FILBIN Alice  
7104 SAPP Kenneth  
7108 MCCRARY Frank  
7110 BARTON James  
7114 HOWZE Warnell  
7114 LOPEZ Michelle  
7115 RIVERSIDE CH OF GOD  
7116 JACKSON Jamah  
7118 XXXX  
7126 STOHLMAN Howard  
7127 MODIC Louis  
7130 PECK Amanda  
7130 SOMERVILLE Sean  
7131 CHERNEY M V  
7134 JOHNSON Delbert  
7134 PAPALARDO Syvester  
7135 MODIC Robbin  
7138 XXXX  
7139 ROBERTO Nelly E  
X 72ND PL  
7203 ARIAS Dorcas  
7204 DAUGHERTY Mary  
7204 SMITH Jessica  
7204 WARD Dan  
7207 MARTIN Julia  
7208 GOGOL Connie  
7211 MURPHY Robert  
7212 GARDNER Monique

7212 JACOBS Christine  
 7215 CRUZ Wilson  
 7216 CHARNEY Shirley  
 7219 CARDINAL L  
 7220 XXXX  
 7222 HUDSON Shainna  
 7223 CASS Michelina  
 7223 CORIANO Bethzaida  
 7224 CLARK Kevin  
 7226 GORMAN Evoney  
 7227 XXXX  
 X W 73RD ST

2006

X W 71ST ST  
 7102 FILBIN Alice  
 7102 TUREK Jos  
 7104 SAPP Kenneth  
 7108 FLEMING Robert  
 7110 BARTON James  
 7114 LOPEZ Michelle  
 7115 RIVERSIDE CH OF GOD  
 7116 JACKSON Jamah  
 7118 XXXX  
 7126 STOHLMAN Howard H  
 7127 METZ Danielle  
 7127 MODIC Louis  
 7130 PECK John  
 7131 CHERNEY M V  
 7134 WHEATON Robert  
 7135 MODIC Loius  
 7138 KIETZMAN Carol  
 7140 RAMSEY Jennialine  
 X W 72ND PL  
 7203 XXXX  
 7204 DAUGHERTY Mary  
 7207 COLLINS Rickey  
 7207 MARTIN JUlia

7208	GOGOL Connie
7211	HODGE Edgar
7211	MURPHY Robert
7212	ELKINS Rebecca
7212	KOVACIK Kathleen
7215	CRUZ Wilson
7216	CHARNEY Shirley
7219	CARDINAL L
7222	XXXX
7223	CORIANO Bethzaida
7224	HENRY Kenneth
7226	XXXX
7227	GARCIA Marcia
	X 73RD ST

#### 2000-01

7102	FILBIN Alice
7104	TUREK Jos
7108	JAHNKE Warren
7110	COTTOM John
7114	XXXX
7115	RIVERSIDE CH OF GOD
7116	HARB Jeffrey
7116	SCHWARZ Phillip
7118	HOWARD Roy
7122	VENTURA Mark
7126	STOHLMAN Howard H
7127	MODIC Louis
7130	PECK John F
7131	CHERNEY M V
7134	WHEATON Robert
7135	MODIC Loius
7138	KEITZMAN Carol
	X 72ND PL
7203	ADKINS Jackie L
7203	GOERSMEYER Robert
7204	DAUGHERTY M
7207	COLLINS Rickey

7208	BURNCHECK J
7208	SCHRECENGOST David
7211	MURPHY Robert
7211	ROSSI Tony
7212	SLARS Daeron
7215	LABOY Lillian
7216	CHARNEY Shirley
7219	CARDINAL Lana
7222	BAER Clyde
7222	KINSER Jason R
7223	DAVIS Robert
7224	SANTIAGO Delia
7226	XXXX
7227	LABOY Jesus
	X 73RD W

1995-96

	X WEST 71ST
7102	TUREK Jos
7104	RICHARDS J M
7108	XXXX
7110	XXXX
7114	XXXX
7115	RIVERSIDE CH OF GOD
7116	XXXX
7118	XXXX
7122	XXXX
7126	STOHLMAN Howard H
7127	LOVINGOOD Ernest
7130	PECK John F
7131	CHERNEY M V
7134	KEOVISAY Heua
7135	XXXX
7138	XXXX
7139	PECK K A
	X WEST 72ND PL
7203	PAYNE L A
7204	DAUGHERTY M

7207	XXXX
7208	MAID 4 DAY CLNG SRV
7211	UNITD DREAMS CONSTR
7212	XXXX
7215	XXXX
7216	XXXX
7219	CARDINAL L
7220	XXXX
7222	XXXX
7223	XXXX
7224	CARDINAL Carl D Jr
7226	XXXX
7227	XXXX
	X WEST 73RD

1990

	X WEST 71ST SW
7102	TUREK Jos
7104	XXXX
7108	HASTINGS Geo Jr
7110	MCCANN R
7114	XXXX
7115	UNITY FREE BAPT CH
7116	XXXX
7118	ZELEK Alan E
7122	XXXX
7126	STOHLMAN Howard H
7127	LOVINGOOD Ernest
7130	PECK John F
7131	CHERNEY Margaret
7134	KUPSKI Ray
7135	XXXX
7138	PHOUTHAVONG B
7139	XXXX
	X WEST 72ND PL
7203	PAYNE T
7204	DAUGHERTY Hugh
7207	GREGG Gary E

7208	CALFEE Tim
7211	XXXX
7212	XXXX
7215	XXXX
7216	CHARNEY George
7219	WASEN Harold C
7220	XXXX
7222	XXXX
7223	BLACKBURN Richard
7224	CARDINAL Carl D Jr
7226	OWCA Richard
7227	XXXX
	X WEST 73RD SW

## 1985

7102	TUREK JOS
7104	XXXX
7108	HASTINGS GEO JR
7114	F&J CONTRS
7114	SHELVEY FRED
7115	UNITY FREE BAPT CH
7116	XXXX
7118	SHAFFER J
7122	XXXX
7126	STOHLMAN HOWARD H
7127	HAHNER E M
7130	PECK JOHN F
7131	CHERNEY MARGARET
7134	KUPSKI JEAN
7135	GUY MILFORD D
7138	XXXX
7139	XXXX
7203	PAYNE T
7204	DAUGHERTY HUGH
7207	GREGG GARY E
7208	CALFEE TIM
7211	XXXX
7212	WRIGHT CHESTER E

7215	XXXX
7216	CHARNEY GEORGE
7219	WASEN HAROLD C
7220	INEMAN JEFF D
7222	WELLS GREGORY JAS
7223	BLACKBURN RICHARD
7224	CARDNINAL CARL D JR
7226	OWCA RICHARD
7227	XXXX

## 1980

7102	SMITH DONALD
7104	DIETTERICH H L
7108	CLARK P
7110	HARPER ROBT D
7114	SHELVEY FRED
7115	UNITY FREE BAPT CH
7116	XXXX
7118	XXXX
7122	XXXX
7126	SMITH ROBERT R
7126	STOHLMAN HOWARD H
7127	HAHNER E M
7130	PECK JOHN F
7131	CHERNEY MARGARET
7134	KUPSKI JEAN
7135	PERRIEN J W JR
7138	BILL JOSEPH
7139	ONEILL JOHN J
7203	PAYNE T
7204	DAUGHERTY HUGH
7207	GREGG Gary E
7208	HANNING H C
7211	GREGG GARLD
7211	HUNTER CHAS
7212	WRIGHT CHESTER E
7215	XXXX
7216	CHARNEY GEORGE

7219	WASEN HAROLD C
7220	XXXX
7223	BLACKBURN RICHARD
7224	MOORE PHILLIP
7226	OWCA RICHARD
7227	MCCOY JIM

## 1975

7104	DIETTERICH H L
7104	TEMKO JOS
7108	JAHNKE WARREN
7110	XXXX
7114	SHELVEY FRED
7115	UNITY FREE WLL BAPT
7116	WILLRICH J C
7118	XXXX
7122	DEMAIO FRANK
7122	KOWALSKI ALFRD J JR
7126	SMITH ROBT R
7126	STOHLMAN HOWARD H
7130	XXXX
7131	CHERNEY FRANCES M
7131	CHERNEY MARGARET
7131	ZIESKE FRANCES M
7131	ZIESKE GARY P
7134	KUPSKI JEAN
7135	PERRIEN JESSE W JR
7138	BILL JOS
7139	ONEILL JOHN J
7203	CONANT M EVA
7203	CONANT WARD H
7204	PFENDLER DAVID
7207	GREGG GARY E
7208	HANNING H C
7211	MARKS GARY
7212	WRIGHT CHESTER E
7215	PAULUS RAYMOND
7216	CHARNEY GEO

7219	WASEN HAROLD C
7220	BUGESS EARL REV
7222	XXXX
7223	HARGETT EUGENE
7224	HEPNER CHAS
7226	OWCA RICHARD
7227	COLES ROBT J

## 1970

7104	REESE M R
7104	TEMKO JOS
7108	HAVANCHAK JOEL
7110	FIKENBURG ROBT J
7114	PRIBOJAN MILAN
7115	CIBSON NATHAN REV
7115	UNITY BAPT CHURCH
7116	WILLRICH J C
7118	MIKLACIC THS J
7122	KOWALSKI ALFRD J JR
7126	HOLMES DANNY
7126	SMITH ROBT R
7131	CHERNEY FRANCES M
7134	KUPSKI JEAN
7135	PERRIEN JESSE W JR
7138	BERFNDSFN LAWRENCE
7138	TESKE WALTER
7139	ONFILL JOHN J
7203	CONANT N EVA
7203	CONANT WARD H
7204	KERSTEN JOHN
7207	XXXX
7208	HANNING HELEN C
7211	WANDLING E L
7212	WRIGHT CHESTER F
7215	BROOKS A D
7216	CHARNEY GEO
7219	WADEN HAORLD C
7220	ANZALONE JOF

7222 WEISS L A  
7223 HARCETT EUGENE  
7226 OWCA RICHARD  
7227 WITHROW I

1966

7102 SCHAUER CAROLJNE  
7104 KLAR ELIZABETH  
7108 HAVANCHAK JOEL  
7110 RUTLEDGE ROBT  
7114 XXXX  
7115 HUCK WM J  
7116 WILLRICH J C  
7118 WARD VINCENT A  
7122 BASSETT RICHARD L  
7122 KOWALSKI ALFRD J JR  
7126 XXXX  
7127 HIGBEE CLARENCE J  
7130 PECK MARGARET  
7130 REMESNICEK JOS P  
7131 CHERNEY FRANCES M  
7131 PETRIME THOS  
7134 KUPSKI JEAN  
7135 PERRIEN JESSE W JR  
7138 TESKE WALTER  
7139 ONEILL JOHN J  
7203 CONANT M EVA  
7203 CONANT WARD H  
7204 KRIST JOS  
7208 XXXX  
7211 HANNING HELEN C  
7212 TOMBLIN JAS H  
7215 WRIGHT CHESTER E  
7216 BROOKS A D  
7219 BEALE ALFRED J  
7220 WASEN HAROLD C  
7222 TOICH CARL L  
7223 BURSSIK CHAS

7223 PILOT LILIAN  
7224 MCDONIE GARY  
7227 XXXX

1960

7102 SCHAUER CAROLJNE  
7104 LKAR ANTHONY  
7115 ALTA FNTN FOOD EQPT  
7116 GRAVA ALFRED  
7118 KRAJEWSKI VALENTINE  
7122 LANGHARD JULIUS  
7122 PELKA NORBERT  
7126 PARRISH JAS  
7127 HIGBEE CLARENCE J  
7130 BAKER GLENN  
7131 CHERNEY MARGARET  
7131 WINKELMANN W A  
7135 PERRIEN JESSE W JR  
7138 COLBERT BERT  
7138 HUTTON JAS W  
7139 ONEILL JOHN J  
7203 CONANT M EVA  
7204 KRIST JOS  
7204 FISCHER FRED J  
7207 KOVACH JULIUS  
7207 EGGERT DONALD  
7208 HANNING HELEN C  
7211 FUNTEK GARBER J  
7212 WRIGHT CHESTER E  
7216 BEALE ALFRED J  
7219 WASEN HAROLD C  
7220 VANNATTER WM H  
7222 TOUCH CARL L  
7223 BURSIK CHAS  
7223 PILOT LILIAN  
7224 KIEFER RICHD P MRS  
7227 KRATKEY MAMIE





# NEIGHBORHOODS



## THE EQUITY

Savings and Loan Co.



5701 Euclid Ave. Phone Henderson 1-3775

In the Heart of Cleveland's Business District

# THE HIPPODROME BLDG.

720 Euclid Ave. JOSEPH LARONGE Inc. Mgrs. Room 700 Tel. Main 1-0010

**DRAWING AV AND DRIVE**  
 9709 Nelke John A @  
 9713 Mandel Settlement @  
 9802 Robinson Helen J @  
 9806 Kasper Clara C @  
 9807 Conradson Karl E @  
 9809 Volck John @  
 9810 Stoier Marlin E @  
 9814 Burke Cecilia T @  
 9817 Walk Wilbur D @  
 9818 Sammi Chas F @  
 9821 Krawnowski Richd L @  
 9823 Reas Jas @  
 9825 Syder Andrew @  
 9826 Peter Dani @  
 9829 Volck John @  
 9829 Gauriel Louis @  
 9830 Cornelius Florence @  
 9831 Schmidt Paul F @  
 9837 Eglody Paul C @

**PEARL RD INTERSECTS W 58th**  
 5842-6052 Brooklyn Acres  
 5852 Tibbitts Douglas F  
 5854 Tenover Salvatore  
 5856 Keeseker Chas E  
 5858 Koch Michl  
 5859 Krasner Ed  
 5860 South Clifford  
 6030 Tennant Dorothea E  
 6032 Holman E E  
 6050 Kravtsov Jos A  
 6052 McQuaid Cath Mrs

**DAYTON CT NE (K-6) W**  
 Second south of Wayne  
 from 1771 E 37th east to  
 E 38th  
 (4 houses)

**DEARBORN AV SW (H-9)**  
 Fourth south of Clara  
 from 3216 W 71st  
 av to  
 Union Terminal Co  
 (sub sta)  
 7103 Euting Louis  
 7104 Klar Anthony  
 rear Tomach John A  
 7105 Klotz Ernest M  
 7110 Tyl Edw R  
 7114 Kraba Wm H  
 7115 Cleveland Trust Fac-  
 tory Inc  
 7118 Birce Geo A Jr  
 7119 Krajenovic Martin  
 7122 Dombady Louis  
 Dombady Judith @  
 7126 Clark Chris G  
 7130 Gable Jos W  
 7131 Janki Martin G  
 7131 Brown Margt V @  
 7134 Janki Martin G  
 7134 Janki Alex E @  
 7135 Motter John C  
 7135 Sawicki Lewis H  
 7138 Novick Chas C  
 7139 Portella Frank J III  
 7139 Miller J  
 7203 Conant Ward H @  
 7204 Kral Jos @  
 7207 Kovach Julius G @  
 7208 Hannan Mark M @  
 7211 Janki Martin G  
 7212 Eckhardt Henry @  
 7213 Simons Steph J @  
 7216 Beale A J  
 7219 Wash Harold E @  
 7220 Norman Geo E  
 7222 Stumm Frank W  
 7223 Borrik Chas @  
 7224 Groom Frank D  
 7226 Papek John L  
 7226 Groom Frank D  
 7227 Krayk Mary G @  
 7227 Wadlock Ernest  
 7310 No return  
 7312 Druce Noble H  
 7314 Schindler Mrs D @  
 7405 Fezer Julius D cigar  
 7408 Stockman Alf J @  
 7409 Cahlik Frank J @  
 7500 Bolla John C @  
 7502 Singer Melvin W @  
 7503 Frisco Theo E @  
 7506 Lotsted Laurence L @  
 7508 Hermann John @  
 7509 Hyacinthe Benhart M @  
 7511 Woodworth Howard J @  
 7512 Goetz Emma Mrs @  
 7513 Goldsworty Jennie @  
 7600 Kinkopf Jos F @  
 7604 Harvey Fred A @  
 7607 Gref Michl @  
 7610 Estakan Frank @  
 7611 Meyer Herbert F @  
 7612 Zander Geo W @  
 7614 Brazglikos Chas @  
 7700 Wadlock Ernest  
 Carpenter Lawrence S  
 7701 Hutz Irma K @  
 7703 Simmer Walter G @  
 7704 Prosek Clarence S @  
 7704 Grundel Carl J @  
 7705 Newport Herbert C Jr  
 7707 Krayk Theo @  
 7708 Papek Leta F @  
 7708 Frank Jos @  
 7711 Barth Jas D @  
 7800 Kapprecht Julius H  
 O'Hara Howard  
 7803 Babinski Jos B @  
 7803 Klicher Jos B @  
 7805 Kmetz Fred J @  
 7807 Metzger Michl G @  
 7808 Soudanerman Jos @  
 7811 Melaker Oscar @  
 7900 Cal Leslie W @  
 7901 Kozubek Wm J @  
 7903 Kolmetschke Michl @  
 7904 Cotton Lettie Mrs @  
 7907 Reibherg Ernest F @  
 7908 Berry Stimp J @  
 7911 Novak Julia T Mrs @  
 7914 Kuller Jos @  
 8003 Pauer David A @  
 8004 Schoelhaer Carl @  
 8004 Kuller Jos @  
 8101 Huba Paul C @

**W 52nd Intersects**  
 8103 Nilsson Pearl @  
 8108 Strickland Fred J @  
 8108 Groom Kasper  
 8110 Barner Chas I @  
 8112 Jackson Frank M @  
 8114 Denby Effie T @  
 8114 Nale Leo C @  
 8114 Tomack Co  
 8114 Camp Rita K @  
 8110 Pless John @  
 8110 Korman Bernette  
 Wilkom Herman @  
 8120 Friedel Adolph @  
 8120 W 52nd Intersects  
 8203 Zudowski Stanley @

**21st Adrianna Terrace**  
 7413 Lickel Anthony  
 7415 Monroe Ruth Mrs  
 7417 Sibelius Wm  
 7418 Ruth Slatkey A @  
 7419 Gambro Walter  
 7420 Zesecy John  
 7421 Governor Mabel G  
 7422 Neugebauer Albert L @  
 7501 Helms John D  
 Helmsler Julia Mrs @  
 7502 Yanus Jos J @  
 7503 George Ernest J  
 7505 Morrison Richd @  
 7506 Walter Lulu A @  
 7511 Ertle M @  
 7509 Metzger Bert F @  
 Estep Jos  
 7510 Konoll Albert @  
 7511 Pepper Bianche @  
 7513 Bellef Arth W Int dec  
 7514 Patronis Nicholas  
 Ganasas Anthony @  
 7513 Hoge Jos  
 7518 Zena Barbara B Mrs @  
 7519 Enders Killian @  
 Enders Edwin  
 7520 Clupston Albert @  
 7521 Simrod Anton J @  
 7521 Meier Frank J @  
 7523 Charnsky Mary T @  
 Charnsky Michl A @  
 7524 Matlak Adam J @  
 7521 Reese Abandora C @  
 7603 Debeiss Jos F @  
 7607 Kiegl Ernest @  
 7608 Henninger Chas N @  
 7609 Stacks Wm M @  
 7609 Stacks Wm M Jr @  
 7610 Rohrich Clara F Mrs @  
 7611 Ciochy Andrew @  
 7611 Amerigo Carr @  
 7613 Lortz John  
 7614 Lilley Clifford L  
 Alexander Myron  
 7615 Hamer Wm E L  
 7616 Krajewski Jos F @  
 Gilles Jos  
 7617 Marah Harry H @  
 7620 Wise Oscar M @  
 7621 Hutchinson Alice @  
 7621 Yocum John W @  
 7701 Hutchinson Howard W @  
 7702 Clay Clyde E @  
 7703 Ziegler Frank @  
 7704 Ditchman John F @  
 7705 Hadden Geo E @  
 7706 Joseph Rose J @  
 7706 McNamee Frank J @  
 7706 Romanian Jos @  
 7709 Krasner Ed @  
 7712 Rafferty Ellsworth R @  
 7713 Rodonice Jos  
 7713 Schwab Leo @  
 7715 Swope Isabel Mrs @  
 7716 Janki Martin G @  
 7718 Janki Valenty @  
 7718 McGroger Jas T @  
 7719 Somerville Joffre @  
 7720 Cooper John L @  
 7721 Graves Ben F @  
 7721 Janki Martin G @  
 7722 Lanigan Carl T @  
 7723 Cornes Noel  
 7723 Krasner Ed @  
 7724 Garfield John A @  
 7801 Adams Ernest C @  
 7802 Wood James H rms  
 7803 Madison Rose D @  
 7804 Norris Kenneth E @  
 7805 Barrer Frank W @  
 7807 Poliano Jas S @  
 7808 Campessa Theo @  
 7808 Stover Carl J @  
 7809 Orszan Frank @  
 7810 Meyer Alf @  
 7810 Krasner Ed @  
 7815 Fokline Ignatius @  
 Tykoff Peter @  
 7814 Krasner Ed A Jr  
 Dodato Carl A  
 7815 Kenyon Chas @  
 7817 Krasner Ed A Jr  
 Edler Bernestine  
 7818 Killion John @  
 7818 Krasner Ed A Jr  
 Hayes Delbert O @  
 7821 Duke John J @  
 7821 Purpora Ernest @  
 7901 Schwartzman Anna @  
 7902 No return  
 7903 Krasner Ed Anthony @  
 7904 Krasner John  
 Krasner Peter C @  
 7905 Krasner John @  
 7907 Lorey Wilma Mrs @  
 7909 Pellanio Ignatius @  
 7910 Lorey Carl E @  
 7911 Pellanio Theo  
 E 79th Intersects  
 7913 Kelly Wm J @  
 7919 Krasner Ed A Jr  
 E 80th Intersects  
 8003 Goldsworty Anna  
 8004 Fann John D  
 8004 Chazek Geo  
 8010 Mann Emily D  
 8011 Hannan Theo F @  
 8012 Wenger Arnold E @  
 8014 Linderman Jos R @  
 8015-17 De La Riva  
 For other occupants  
 see 1386 E 81st  
 E 81st Intersects  
 8103 Nilsson Pearl @  
 8108 Strickland Fred J @  
 8108 Groom Kasper  
 8110 Barner Chas I @  
 8112 Jackson Frank M @  
 8114 Denby Effie T @  
 8114 Nale Leo C @  
 8114 Tomack Co  
 8114 Camp Rita K @  
 8110 Pless John @  
 8110 Korman Bernette  
 Wilkom Herman @  
 8120 Friedel Adolph @  
 8120 W 52nd Intersects  
 8203 Zudowski Stanley @

**84th Intersects**  
 8409 Flynn Anple Mrs @  
 8415 Lilburn David  
 8415 Adams Apartments  
 1 Molloy Wilfrid Mrs @  
 2 Carbaugh Ruth E  
 3 McAllister Willis  
 4 Richardson Francis  
 5 Heller Caroline A Mrs  
 8419 Pickett Mitchell @  
 Pickett Harold  
 Verbank Martin J @

**85th Intersects**  
 8501 Genl Cing Co  
 Baker Wendell M @  
 8503 Stevens Edw W @  
 8505 Porter Paul @  
 8505 Lechner John  
 8505 Gouwin Wm  
 8509 Smith Frank M @  
 8512 Walsh Harry W @  
 8512 Manning Tenyson E @  
 8513 Beise Jessica @  
 8513 Reck Riceland Edw F  
 auto rep  
 8517 Khrz John M @  
 8519 O'Neil Geraldine @  
 8519 O'Neil Jos Wm E @  
 8521 DeAngelis Thos A @  
 auto rep

**E 86th Intersects**  
 8610 Rohrich Clara F Mrs @  
 8611 Ciochy Andrew @  
 8611 Amerigo Carr @  
 8613 Lortz John  
 8614 Lilley Clifford L  
 Alexander Myron  
 8615 Hamer Wm E L  
 8616 Krajewski Jos F @  
 Gilles Jos  
 8617 Marah Harry H @  
 8620 Wise Oscar M @  
 8621 Hutchinson Alice @  
 8621 Yocum John W @  
 7701 Hutchinson Howard W @  
 7702 Clay Clyde E @  
 7703 Ziegler Frank @  
 7704 Ditchman John F @  
 7705 Hadden Geo E @  
 7706 Joseph Rose J @  
 7706 McNamee Frank J @  
 7706 Romanian Jos @  
 7709 Krasner Ed @  
 7712 Rafferty Ellsworth R @  
 7713 Rodonice Jos  
 7713 Schwab Leo @  
 7715 Swope Isabel Mrs @  
 7716 Janki Martin G @  
 7718 Janki Valenty @  
 7718 McGroger Jas T @  
 7719 Somerville Joffre @  
 7720 Cooper John L @  
 7721 Graves Ben F @  
 7721 Janki Martin G @  
 7722 Lanigan Carl T @  
 7723 Cornes Noel  
 7723 Krasner Ed @  
 7724 Garfield John A @  
 7801 Adams Ernest C @  
 7802 Wood James H rms  
 7803 Madison Rose D @  
 7804 Norris Kenneth E @  
 7805 Barrer Frank W @  
 7807 Poliano Jas S @  
 7808 Campessa Theo @  
 7808 Stover Carl J @  
 7809 Orszan Frank @  
 7810 Meyer Alf @  
 7810 Krasner Ed @  
 7815 Fokline Ignatius @  
 Tykoff Peter @  
 7814 Krasner Ed A Jr  
 Dodato Carl A  
 7815 Kenyon Chas @  
 7817 Krasner Ed A Jr  
 Edler Bernestine  
 7818 Killion John @  
 7818 Krasner Ed A Jr  
 Hayes Delbert O @  
 7821 Duke John J @  
 7821 Purpora Ernest @  
 7901 Schwartzman Anna @  
 7902 No return  
 7903 Krasner Ed Anthony @  
 7904 Krasner John  
 Krasner Peter C @  
 7905 Krasner John @  
 7907 Lorey Wilma Mrs @  
 7909 Pellanio Ignatius @  
 7910 Lorey Carl E @  
 7911 Pellanio Theo  
 E 79th Intersects  
 7913 Kelly Wm J @  
 7919 Krasner Ed A Jr  
 E 80th Intersects  
 8003 Goldsworty Anna  
 8004 Fann John D  
 8004 Chazek Geo  
 8010 Mann Emily D  
 8011 Hannan Theo F @  
 8012 Wenger Arnold E @  
 8014 Linderman Jos R @  
 8015-17 De La Riva  
 For other occupants  
 see 1386 E 81st  
 E 81st Intersects  
 8103 Nilsson Pearl @  
 8108 Strickland Fred J @  
 8108 Groom Kasper  
 8110 Barner Chas I @  
 8112 Jackson Frank M @  
 8114 Denby Effie T @  
 8114 Nale Leo C @  
 8114 Tomack Co  
 8114 Camp Rita K @  
 8110 Pless John @  
 8110 Korman Bernette  
 Wilkom Herman @  
 8120 Friedel Adolph @  
 8120 W 52nd Intersects  
 8203 Zudowski Stanley @

**DEERING AV SE (N-8)**  
 First south of Euclid av  
 from 2061 E 107th east to  
 E 108th  
 10700 Bowser Norman H  
 10708 Alan Marie L  
 10710 Kramer Harry E L  
 10712 Brainard Zillah Mrs  
 10714 Butler Bertha B Mrs  
 10715 10716  
 house furn  
 10718 Boswell Haden E Jr  
 vacant  
 10834-38 University Hall  
 Apts  
 1 No return  
 2 Steuer Leonard G  
 3 Henkins Sam  
 4 Joseph Rose J @  
 5 King Alex J @  
 6 Wolf Morris H  
 7 No return  
 8 Moody R Frank  
 9 Weldonhal Leo  
 10 Montclair  
 Florence  
 11 McGinnis Margt J @  
 12 Scordell Horatius  
 14 Estep Clud R  
 17 vacant  
 20 Jackson Raymond L  
 21 DeVincento Helen M @  
 E 109th Intersects

**DE FOREST AV SE (P-11)**  
 Fourth south of Har-  
 vard av  
 rd east to E 175th and  
 from west of Adalia av to  
 west of Westmoreland  
 16603 Dienes Clarence K @  
 16610 Styblo J J @  
 16625 Barrer Frank W @  
 16798 Egan Robt F @  
 16800 Kallher Norman R @  
 16810 Sikorski Peter T @  
 16801 Tinker Wesley D @  
 16802 Chase Robert L @  
 17010 Palmer Harry L @  
 17018 Furst Wm @  
 E 178th Intersects  
 Adalia av intersects  
 Westmoreland av intersects

**DE FOREST RD SE (N-7)**  
 16603 Dienes Clarence K @  
 16610 Styblo J J @  
 16625 Barrer Frank W @  
 16798 Egan Robt F @  
 16800 Kallher Norman R @  
 16810 Sikorski Peter T @  
 16801 Tinker Wesley D @  
 16802 Chase Robert L @  
 17010 Palmer Harry L @  
 17018 Furst Wm @  
 E 178th Intersects  
 Adalia av intersects  
 Westmoreland av intersects

**DE FOREST RD SE (N-7)**  
 16603 Dienes Clarence K @  
 16610 Styblo J J @  
 16625 Barrer Frank W @  
 16798 Egan Robt F @  
 16800 Kallher Norman R @  
 16810 Sikorski Peter T @  
 16801 Tinker Wesley D @  
 16802 Chase Robert L @  
 17010 Palmer Harry L @  
 17018 Furst Wm @  
 E 178th Intersects  
 Adalia av intersects  
 Westmoreland av intersects

**DE FOREST RD SE (N-7)**  
 16603 Dienes Clarence K @  
 16610 Styblo J J @  
 16625 Barrer Frank W @  
 16798 Egan Robt F @  
 16800 Kallher Norman R @  
 16810 Sikorski Peter T @  
 16801 Tinker Wesley D @  
 16802 Chase Robert L @  
 17010 Palmer Harry L @  
 17018 Furst Wm @  
 E 178th Intersects  
 Adalia av intersects  
 Westmoreland av intersects

**DE FOREST RD SE (N-7)**  
 16603 Dienes Clarence K @  
 16610 Styblo J J @  
 16625 Barrer Frank W @  
 16798 Egan Robt F @  
 16800 Kallher Norman R @  
 16810 Sikorski Peter T @  
 16801 Tinker Wesley D @  
 16802 Chase Robert L @  
 17010 Palmer Harry L @  
 17018 Furst Wm @  
 E 178th Intersects  
 Adalia av intersects  
 Westmoreland av intersects

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 16800 Kallher Norman R @  
 16810 Sikorski Peter T @  
 16801 Tinker Wesley D @  
 16802 Chase Robert L @  
 17010 Palmer Harry L @  
 17018 Furst Wm @  
 E 178th Intersects  
 Adalia av intersects  
 Westmoreland av intersects

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 17018 Furst Wm @  
 E 178th Intersects  
 Adalia av intersects  
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 Adalia av intersects  
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 16810 Sikorski Peter T @  
 16801 Tinker Wesley D @  
 16802 Chase Robert L @  
 17010 Palmer Harry L @  
 17018 Furst Wm @  
 E 178th Intersects  
 Adalia av intersects  
 Westmoreland av intersects

**DELAWARE RD NE (O-1)**  
 From 111 N 77th east  
 to 18007 Waterloo rd  
 17715 Aufmuth Walter A @  
 17719 Fieser Howard H  
 17720 Lissoucky Henry A @  
 17723 Goltz Harry R  
 17724 Reuss Jos @  
 17801 Reuss Jos @ tailor  
 17802 Coff Vincent @  
 17805 Mack Henry F @  
 17806 Gubanc Jos  
 17809 Karambir Stanley F  
 17810 Meilo Ervin H @  
 17813 Mihelic Peter J @  
 17815 Krasner Ed @  
 17817 Calman Vincent  
 Tisovic Jos @  
 17818 Mack Frank P @  
 carp  
 17900 Terock Frank E @  
 From 111 N 77th east  
 to 18007 Waterloo rd  
 17715 Aufmuth Walter A @  
 17719 Fieser Howard H  
 17720 Lissoucky Henry A @  
 17723 Goltz Harry R  
 17724 Reuss Jos @  
 17801 Reuss Jos @ tailor  
 17802 Coff Vincent @  
 17805 Mack Henry F @  
 17806 Gubanc Jos  
 17809 Karambir Stanley F  
 17810 Meilo Ervin H @  
 17813 Mihelic Peter J @  
 17815 Krasner Ed @  
 17817 Calman Vincent  
 Tisovic Jos @  
 17818 Mack Frank P @  
 carp  
 17900 Terock Frank E @

**DELAWARE RD NE (O-1)**  
 From 111 N 77th east  
 to 18007 Waterloo rd  
 17715 Aufmuth Walter A @  
 17719 Fieser Howard H  
 17720 Lissoucky Henry A @  
 17723 Goltz Harry R  
 17724 Reuss Jos @  
 17801 Reuss Jos @ tailor  
 17802 Coff Vincent @  
 17805 Mack Henry F @  
 17806 Gubanc Jos  
 17809 Karambir Stanley F  
 17810 Meilo Ervin H @  
 17813 Mihelic Peter J @  
 17815 Krasner Ed @

CLEVELAND ADDRESS TELEPHONE DIRECTORY

DANIEL AVE NE  
(Continued)

15317 Vesel Anton ..... KE-7492  
15321 Fetterman John W ..... IV-4275  
15403 Harford J A ..... KE-0805  
15404 Clark Eugene L ..... KE-7619  
15407 Lipovic Josephine ..... IV-3776  
15411 Grdovic M V ..... IV-4705  
15415 O'Bryan Anna Mae ..... KE-0595  
15420 Cook Darlo J r ..... KE-7627  
15501 Caretta Chester ..... KE-0200  
15505 Mueller Oswald r ..... IV-6540  
15508 Plesz Andrew ..... IV-4122  
15509 Repar Jos ..... KE-7510

DANVILLE CT SE

11103 Benedictis John ..... SW-0572  
11111 Dei Greco John r ..... GA-4077

DARLEY AVE NE

13905 Stich C F r ..... LI-0124  
13909 Karun Frank ..... GL-7712  
13911 Mason P J ..... MU-2179  
13913 Nickels Myrtle Miss r ..... LI-3523  
13916 Hanna Anna J ..... GL-5798  
13917 Nielsen Rudolf r ..... LI-3976  
13921 Wyllie Geo r ..... LI-1967  
13925 Cadden Wm ..... MU-2950  
13926 Cadzow N B ..... LI-3526  
13929 Fosselman Jas D r ..... LI-3946  
13930 Caldwell F r ..... GL-4614  
13933 Stritof John r ..... LI-2756  
13948 Dorsey Clarence A r ..... LI-7445  
13949 Krielow Walter r ..... PO-9433  
13945 Macdonald Jos L r ..... LI-3664  
13948 Ward John P ..... MU-1464  
13949 Penzone Rosina ..... MU-1880  
13947 Wall Irene H ..... LI-2570  
13941 Pagnard Helen R r ..... MU-0222  
13942 Albertson T A r ..... GL-8526  
13945 Hillenbrandt Marie M Miss r ..... GL-3729  
13948 Pantalano Nick ..... MU-0272  
13949 Duncan Wm r ..... GL-5524  
13943 Aufmuth Helen C r ..... LI-1812  
13943 Patch Walter E r ..... GL-1015  
13900 Karda Frank ..... LI-0818  
13901 Strahine Max ..... MU-8794  
13902 Ritz Eddie J ..... LI-5144  
13905 Conway Matthew ..... LI-4719  
13908 Bares Frank ..... MU-9910  
13911 Ulrich Louis A r ..... LI-9252  
13913 Spilar John J r ..... GL-3042  
13916 Stahlnut Herbert M ..... LI-1653  
13917 Christensen Chr r ..... LI-5855  
13920 Barr Frank W ..... GL-7399  
13920 Franz Adolf r ..... LI-2573  
13921 Williams Frank R r ..... LI-7588  
13924 Schwed Wm J r ..... PO-1474  
13925 Russell Wm ..... PO-2933  
13928 Schnepf Harry C r ..... LI-5638  
13929 Reder Gust r ..... LI-7584  
13902 Graef C E r ..... LI-1293  
13910 Dreyer Henry Karl r ..... LI-2480  
13914 Knight Irving W r ..... MU-2138  
13916 Auv Melvin F r ..... LI-2994  
13917 Leskovec Mary ..... MU-4933  
13918 Hartney John ..... MU-8909  
13912 Ballard Chas r ..... LI-2823  
13916 Leskovec John ..... GL-1843  
13902 Batis Joseph r ..... PO-9603  
13906 Meiser Wilbert J r ..... PO-4111  
13910 Coffey Patrick r ..... PO-4176  
13918 Zinck N L ..... GL-8026  
13900 Johnson D E r ..... GL-8026  
14101 Johnson Axel r ..... MU-2280  
14109 David L C ..... MU-2166  
14200 Eaton Mfg Co ..... GL-5600  
14201 Santavirta Joe ..... MU-3933  
14205 Surckla Conrad ..... MU-6784  
14207 Surckla P r ..... GL-9475  
14209 Baumgarten W F r ..... GL-0390  
14221 Franz Jos ..... PO-3406  
14309 Milican Mike r ..... PO-2326  
14315 Schicht Michael r ..... PO-9747  
14317 Sherrill Piper r ..... MU-7131  
14323 Sill John A ..... LI-0054  
14411 Demarko Guy ..... GL-0699  
14415 Penow Edw ..... PO-8976  
14509 Buttici Antonio Jr ..... MU-6674  
14509 Morton Mae ..... LI-5375

DARTMOOR RD (Cleve Hts)  
(Continued)

2593 Shaw W J Mrs r ..... YE-6087  
2597 Rockwell Harriet D ..... ER-1964  
2597 Stowe Chas R ..... ER-1964  
2600 Fisher John F ..... YE-4465  
2601 Merrill C B Mrs r ..... FA-6731  
2604 Roodhuyzen H G r ..... YE-3788  
2605 Watterson Wm H ..... YE-3230  
2612 Hamman Frances E Mrs ..... YE-0149  
2616 Dean John Ladd ..... YE-0074  
2617 Dryfoos Sidney L r ..... FA-4676  
2620 Stilwell Lillian B Miss r ..... FA-7980  
2625 Burke Frank D r ..... YE-2684  
2628 Bruce W C Mrs r ..... FA-9220  
2628 Gibbons M R ..... FA-9220  
2629 Reminger Mary Miss r ..... YE-7784  
2634 Lewis Jos M ..... FA-8085  
2637 Ziskin Frank ..... YE-6777  
2640 Klaus F R r ..... FA-6999  
2641 Reder Jake r ..... YE-6091  
2644 Fulton Fredk C r ..... FA-0694  
2645 Sutter Carleton A ..... YE-6664  
2653 Finley W S r ..... YE-8465  
2653 Star T D r ..... YE-8465  
2657 Crocker J Reese Mrs ..... YE-0742

DARTMOUTH AVE NW

16503 Wiemels Agnes M ..... OR-4576  
16504 Svec E ..... CL-5887  
16505 Kosuth Earl J ..... OR-0251  
16508 Gless Geo E r ..... CL-0940  
16603 Yacklin Henry J r ..... OR-2428  
16606 Barth Wm A ..... CL-0645  
16607 Roach Wilbur E r ..... CL-5285  
16702 Hadde Leonard G r ..... OR-5869  
16703 Fegen N A r ..... CL-2854  
16705 Weiser Forest A r ..... OR-0201  
16707 Plumbeck Herman ..... OR-3894  
16710 Schwartz Lawrence J r ..... CL-8624  
16711 Stockhaus Robt r ..... CL-3195  
16802 Sacha E J Mrs r ..... CL-3838  
16803 Helms T F r ..... OR-3133  
16806 Schuld Peter r ..... OR-2372  
16807 Zeltz J J Mrs r ..... CL-7506  
16810 Lintern Julia Mrs r ..... GL-0622  
16811 Zyp John r ..... CL-1183  
16902 Hrubec John r ..... CL-3445  
16905 Dolesh E P ..... OR-4471  
16910 Conlon Jas ..... CL-0512  
16931 Pinard Geo H Jr ..... CL-2623  
17210 Schenkelberg Ray r ..... OR-4941  
17214 Marrer Leo J r ..... CL-2261  
17215 Schreiner R A r ..... GL-6025  
17215 Solt Leonard F ..... CL-7806  
17218 Kleinschmitz G E ..... OR-3589  
17218 Mayer Chas F r ..... OR-0044  
17219 Breen Frank J r ..... CL-3266  
17300 Fougousse Joe r ..... CL-2265  
17301 Stack Wm B r ..... CL-4941  
17304 Kuhn Rose J ..... OR-2267  
17308 Wiemels Emilia r ..... OR-3927  
17309 Gibson J C ..... OR-6322  
17312 McGuire Samuel A r ..... CL-7692  
17317 Geiger August r ..... OR-7164  
17400 Parent Burton L r ..... CL-6719  
17401 Grapes J H r ..... OR-0859  
17404 Rayel Michael r ..... OR-7374  
17405 Bocca Michael G ..... CL-4017  
17408 Friswold Frank A ..... CL-7345  
17409 McAllister Christopher E ..... OR-1329  
17413 King Chas r ..... OR-0941  
17417 Archibald Chas F ..... CL-5614  
17420 Claude Chas E r ..... OR-2092  
17421 Fintz John r ..... OR-2092  
17421 Fintz Ralph J Dr ..... OR-2092  
17424 Maurath Fred r ..... OR-0689  
17500 Kilbane Edw J ..... OR-1057  
17501 Roche W P r ..... CL-5065  
17510 Diederich J E r ..... CL-0248  
17512 Hoge Anna Mrs r ..... OR-0181  
17515 Sheerer J S r ..... CL-0181  
17516 Luebbert H C r ..... CL-2095  
17520 Hillbrandt Robt ..... OR-2436  
17520 Tischler Geo A Dr r ..... OR-2436

DARTWORTH DR (Parma)

6306 Hunt Wilbur I r ..... FL-4276  
6309 Harris Jas r ..... SH-4830  
6314 Hopke J W r ..... FL-7529  
6403 Schmitzdr Frank r ..... FL-8437  
6506 Eckman H M r ..... FL-6875  
6515 Keith E A ..... SH-3175  
6711 Fay Dudley S Dr r ..... SH-8435  
6714 Hecker L Fred ..... SH-3410  
6714 Cooper John r ..... SH-8382  
6718 Giese Elmer P ..... FL-1269  
6802 Wenzel Arthur F ..... FL-3920  
6803 Redlin Walter C r ..... FL-8435  
6807 Deis Leo F Mrs r ..... FL-9153  
6810 Carlson W F r ..... FL-1753  
6818 Urmetz A J ..... SH-1925  
6910 Krueger Otto r ..... SH-1807  
7012 Weber Erwin r ..... FL-4262  
7006 Metzger E W ..... FL-1581

DARTWORTH DR (Parma)  
(Continued)

7007 Trojack Joe r ..... SH-8432  
7010 Gross Louis r ..... FL-1807  
7015 Helgeson H ..... SH-4900  
7015 Kraze Vincent ..... FL-4900  
7103 Stoboda Steven ..... FL-8453  
7107 Haas Philia r ..... FL-5364  
7110 Houck Wesley J r ..... FL-4229  
7202 Urban A ..... FL-7207  
7408 Janos Angel J ..... FL-1023  
7414 Brandt Richard r ..... FL-3280  
7420 Fredrick L C ..... FL-2618  
7423 Parchen Arthur ..... SH-8078  
7508 Klomp Oscar Rev ..... FL-1523  
7509 Townsley R E ..... FL-9387  
7515 Gieseman Wm C ..... FL-2308  
7601 Tenhagen Wm E r ..... FL-1804  
7709 Carroll Jerry J r ..... SH-3358  
7713 Gross Andrew r ..... SH-1326  
7717 Haller Henry r ..... FL-3358  
7906 Guiton John J r ..... SH-3271  
7925 Michnay Paul ..... FL-7047  
8001 Pfister Wilfred A r ..... SH-6240  
8017 Delaney Denis ..... FL-0180  
8020 Pollock Gordon ..... SH-2239  
8111 Armstrong Curtiss C ..... SH-6950  
8115 Balph Wm ..... SH-1674  
8119 Wilson A B ..... SH-5819

DARWIN AVE NE

14012 Sweide Chas ..... LI-1466  
14016 Williams Donald L ..... MU-0914  
14017 Pintarich John ..... MU-7828  
14020 Kress Helen ..... MU-6951  
14020 Ocker Aaron P ..... LI-8505  
14104 Eaton Robt F ..... MU-5323  
14107 Barbic Steve ..... PO-1217  
14108 McNeill Dorothy Miss ..... LI-7936  
14109 Summers Earl H ..... MU-4822  
14117 Kocjan M T r ..... MU-7727  
14118 Rebol Edward r ..... MU-8721  
14201 Stoneham Chas r ..... GL-2382  
14202 Bretzel Frank r ..... PO-5857  
14204 Rebol Edward r ..... PO-4727  
14205 Baker Wm T r ..... PO-9706  
14205 Kinkopf Wm T ..... GL-0843  
14208 Perich Mike ..... MU-3430  
14208 Sekulich Alice Z ..... PO-6185  
14214 Horvat Matt r ..... PO-1493  
14217 Hrkalic A ..... LI-7008  
14218 Srnick Peter ..... LI-6573  
14218 Stefanek Paul ..... MU-5309  
14219 Meyer Jos C ..... LI-1274  
14301 Schaser John ..... MU-7069  
14303 Simmons Mabel Mrs ..... MU-3494  
14304 Lockwood Elmer R ..... GL-9873  
14308 Bernstein Sarah ..... GL-6814  
14315 Beckler Ralph E ..... MU-7687  
14316 Infalliola Pat r ..... GL-6105  
14319 Nestic Danica ..... LI-0850  
14320 Phillips Erwin r ..... LI-9944  
14400 Bostick John ..... PO-5897  
14401 Harding W G r ..... MU-1115  
14404 Miller Cella r ..... LI-1748  
14404 Miller Jos C r ..... LI-1748  
14405 Raich Jos r ..... MU-1972  
14409 Pollitt Robt ..... LI-3685  
14410 Godec Joseph r ..... PO-1412  
14412 Skinner John r ..... LI-6225  
14435 Gal Margaret r ..... GL-7495  
14417 Kraft Anton ..... GL-7495  
14500 McGinity Ralph E ..... PO-3231  
14501 Di Franco Jas r ..... LI-0104  
14503 Motzuk Walter C ..... LI-4417  
14505 Lovick Steve Jr ..... PO-7419  
14511 Shivers E L r ..... MU-2417  
14515 Albright Ernest C ..... MU-5254  
14515 Opalich Diana ..... GL-7471  
14523 Sumskis Peter ..... LI-5551  
14605 Zivanchev Simon r ..... LI-5831  
14615 Miller John L r ..... MU-3029  
14705 Bilyk Steve r ..... GL-5368  
14717 Demarko Jerry ..... LI-2730  
14801 Dietz Nick ..... LI-1167  
14809 Bor Richard A r ..... PO-2942  
14811 Moran Mary ..... PO-1113  
14901 Fink Evelyn Miss ..... PO-0992  
14902 Coffinwood Lbr Co ..... MU-0472  
14913 Kasunic Ann ..... LI-9280  
15005 Joshua Geo r ..... MU-2629  
15009 Allen Clarence ..... MU-0656  
15009 Townsley Geo Jr ..... GL-9501  
15105 Tomboy Mach Products ..... GL-3679

DAVENPORT AVE NE

1476 Gund Realty Co ..... PR-7636  
1476 Tio Top Distributing Co The ..... PR-1600  
1477 Pennsylvania Railroad  
Cleve Freight Sta  
Merchandise Serv Bur ..... EN-2121  
1478 Western Auto Stores ..... CH-6770  
1478 Western Auto Stores wholes div ..... CH-6770  
1580 Katten Anna Mrs r ..... PR-4929  
1856 Cuyahoga County of Relief Bur  
Woodyard ..... PR-1175

DAVENPORT AVE NE  
(Continued)

2138 Norris Brothers Co ..... PR-2234  
2138 Norris Trucking Co ..... PR-2234

DAVIS CT (Lkwd)

11812 MacKenzie Harold W ..... LA-1574  
11813 Shoddes Andrew S ..... LA-5011  
11815 Rutledge C H Jr r ..... BO-8031  
11817 Haase W A ..... LA-9062  
11818 Corrigan Thos R ..... BO-4253  
11822 Spoth Peter ..... AC-5167  
11824 Baum Clarence ..... LA-1778  
11825 Evist Thos ..... LA-6875

DAWN AVE SW

8211 Smith Rose r ..... MI-4765  
8214 Ray Clouidia C r ..... MI-5037  
8215 Hickman Daisy r ..... MI-4942  
8217 Childers Newton ..... MI-9927

DAWNING AVE SW

3509 Pankau H F ..... SH-3378  
3513 McKenzie Gordon r ..... SH-1085  
3525 Kubitzke Aug r ..... SH-2441  
3601 Stuebe Lucille r ..... SH-1806  
3605 Fritch Gertrude r ..... SH-0156  
3617 Brega C F ..... FL-6248  
3621 Dunie Era ..... FL-5128  
3621 Van Cucha Michael Jr ..... FL-5128  
3636 Gladish Marie ..... FL-2851  
3640 Schilders Frank A ..... SH-7919  
3703 Schilders John L ..... FL-4594  
3704 Caldwell A J r ..... FL-0156  
3704 Griffith Carl W ..... FL-0156  
3707 Balog John ..... SH-4251  
3709 Nelge John A r ..... SH-1049  
3713 Mancini Settimio ..... FL-9879  
3802 Banks Paul H ..... FL-2298  
3807 Conradson Karl E ..... FL-2426  
3809 Folecik Dorothy ..... FL-6374  
3814 Burke Cecilia ..... FL-8237  
3821 Krawski Richard ..... FL-9916  
3822 Shesley J P r ..... SH-2548  
3826 Velky Jos ..... FL-4095  
3833 Schmidt Paul F ..... SH-6213  
6393 Lapple Guy M ..... FL-2192

DAWNSHIRE DR (Parma)

3706 Cimino Dominic r ..... SH-7837  
3802 Laurenti Anthony H ..... FL-2089  
3830 Bolner Ruth ..... FL-5019  
3900 Vogler John S r ..... FL-8287  
4002 Kollis Stanley r ..... FL-8606  
4003 Kozlowski John J r ..... SH-3053  
4011 Avel Wesley ..... FL-8749  
4102 Napey Louis ..... FL-0069  
4106 Ameen K ..... SH-4298  
4107 Sic Jas ..... SH-4002  
4206 Lenak Richard ..... SH-9530

DAWNWOOD DR (Parma)

1412 Doering Fred ..... SH-8127

DEAN CT (Rocky River)

Actual Street Numbers Not Given  
Oehlke Louis J ..... ED-1177

DEANWOOD AVE EC

2067 Buehner Henry ..... MU-5608  
2069 Reed Russell F r ..... PO-8424  
2071 Poik E W ..... MU-8544

DEARBORN AVE SW

7108 Eisenegger F J r ..... ME-5347  
7110 White Fonda ..... ME-3339  
7114 Krabbe Wm ..... ME-0456  
7116 Niemeyer Edmund ..... ME-3457  
7118 Lukas Loretta ..... ME-7959  
7126 Clark Lydia ..... WO-0428  
7130 Gable Jos M ..... WO-8504

CLEVELAND ADDRESS TELEPHONE DIRECTORY

DEARBORN AVE SW  
(Continued)

7130	Schumacher Edmund	WO-8002
7131	Witzke Daniel H	ME-8569
7134	Kemer Chas L R	ME-4097
7134	Neff Edmund L R	WO-6408
7135	Molter J C	WO-8204
7138	Frawley J	WO-8078
7138	Noviky Chas	AT-3855
7139	O'Neill John J	ME-6498
7203	Conant M Eva	WO-0200
7203	Conant W Harry	WO-0200
7204	Krist Jas R	WO-8350
7207	Kovach Julius	WO-8284
7208	Hanning Helen C Miss	ME-8291
7211	Funtek Garber J R	ME-3542
7211	Gnatowski Alex Jr	ME-2471
7212	Eckhardt Henry	WO-3074
7216	Beale Alfred J	ME-3234
7219	Barton John R	ME-2055
7222	Stemm Fred Wm	ME-7742
7223	Gursik Chas	ME-5170
7223	Pilot Lillian	ME-5170
7227	Kratky Mamie	AT-3241
7230	Chanwell Products	ME-5044
7232	Druce Clara Miss	WO-8553
7402	Schindler Martin D Sr	WO-3354
7405	Fater Julius	WO-6343
7406	Stockman A J	ME-1531
7502	Dinger G W R	WO-0732
7503	Frisco T E	ME-1694
7506	Draper Elton C	ME-6036
7506	Lofstedt L	ME-6037
7509	Gref M C	WO-5529
7512	Streitel Clinton R	WO-5999
7512	Weil Ralph	ME-4040
7513	Goldsworth Wm H	ME-9163
7600	Carpenter Lawrence S	ME-8806
7604	Haray Beulah	WO-8660
7607	Bateman J H	ME-6669
7610	Estantek Frank	ME-0428
7611	Dwyer Herbert F	WO-7369
7614	Kovach Chas P	WO-4246
7700	Elijah L L	AT-0458
7700	Weinacht Elroy F	ME-1908
7701	Haug Rose Mrs	WO-6125
7703	Simmerer Robt G	WO-2255
7704	Grundel Carl J	ME-0331
7707	Kremka Theodore	ME-2062
7708	Wisniewski V R	AT-2291
7711	Barth Jas D	ME-1853
7800	O'Hara Howard	AT-1393
7803	Babinchak Jos B	AT-3212
7804	Eilcker Leonard N	WO-6910
7807	Metzger Fred G	ME-4288
7808	Swinderman Chas F	WO-5461
7811	Meister Oscar	WO-4281
7900	Matheny Ivan	ME-0811
7901	Pochedy Steven	ME-8810
7903	Locher Karl J	AT-2547
7904	Cotton Wm A	ME-7613
7907	Rethberg Leonard W	WO-7147
7908	Berry S J	ME-8295
7911	Novak J Mrs	WO-5967
8003	Panzer David	ME-5706
8005	Livdur A	ME-2130
8101	Pugh Vance C	ME-6039

DECATUR CT SE

850 Simonelli Mike Truck Co MA-8347

DECKER AVE NE

7419	Glasby Mary Mrs	HE-9484
7420	Hondz Josephine Miss	HE-7959
7421	Townsend T J	EN-7556
7501	Heiniger John & Co	EN-1970
7502	Yanus Ann	EX-0932
7505	Morrison Richard	HE-3163
7506	Potts Elsie M	EN-0378
7506	Walter Lulu A	EN-0378
7510	Hovan John F	HE-4653
7511	Hoenig Justine	EN-2378
7513	Daley Emmett	EN-4423
7514	Ganeles Tony	EX-2034
7514	Sleep Harry	HE-7959
7515	Hoge Joseph	HE-3854
7516	Zych Edw	EN-6304
7516	Zych Ted	EN-6304
7519	Friedel Leo F	EN-4312
7519	Teagle Tony	HE-7691
7520	Krueger Jack E	HE-8931
7521	Rawlin Edw	EN-1226
7523	Charnoky Michael A	EN-0358
7524	Plattell Wm C	HE-0989
7601	Reese Abednago C	HE-5273
7608	Horridge Christopher	EN-5458
7609	Stacks Wm M	EN-3503
7611	Artists Supply Co	EN-1880
7611	Link Geo W	EN-2776
7613	Driscoll Grace Miss	HE-0335
7613	Hite Hazel K	HE-0335
7614	Smith Jos D	EN-5621
7614	Visnaukas Alex Jr	HE-8744
7616	Krajewski Jos F	EX-0681
7616	Lilley D V	HE-4702
7617	Smith Harry H	HE-8474
7620	Wise Chas J	HE-3497
7621	Henderson Edw	HE-9704
7702	Clay C E	HE-2585

DECKER AVE NE  
(Continued)

7707	Wieha Alfred A	EN-1410
7705	Hadden G R	EN-3966
7708	McVay Glen R	EN-2982
7708	Ruppe Rudolph	EX-2519
7709	Boyd John Paul	EN-7524
7712	Soeder Leo	HE-2863
7712	Strzelecki Anthony	HE-6577
7718	Podboj Jas R	EN-3762
7720	Hook John R	HE-1628
7721	Clark Geo	EX-0027
7721	Graves Ben	HE-0630
7721	Lehrmeyer N Mrs	HE-1251
7722	Lanigan C T	EN-0251
7723	Allison John R	EN-0776
7801	Kurtz Russell	HE-8165
7802	Adams Betty	EN-2933
7804	Norris K E	EN-1889
7805	Madison Rosa	EX-0355
7807	Decker Mach Products Co Inc	EX-0860
7809	Rodville Joe	EN-5638
7810	Meyer Alfred	HE-2257
7811	Graehling Perry	EX-2881
7813	Paliwoda Anton	EX-2655
7814	Dodaro Carl	EX-3875
7817	Tice Metta L	EN-5004
7818	Sauferth Otto	EN-0359
7820	Carwile Wm	EN-0047
7821	Voelkel Margaret	HE-2049
7900	Ausflug Fred J	EN-3550
7903	Wagner Ernest	HE-9894
7904	Kernan Paul	EN-8288
7911	Foliano Rose	EN-5452
7915	Kelly W J	HE-6243
8004	Mende Hazel Edith	EX-0769
8004	Rice Frank A	EN-5267
8012	Zernitz Albert	EX-3475
8015	Dittmar Katherine Mrs	HE-3296
8015	Lezius A	HE-8493
8015	Russ Minnie C Mrs	HE-1724
8016	Dill Richard A	EN-8195
8017	Dwyer Thos N	EX-8570
8018	Siri Jos C	EN-0190
8022	Kaye Chas	HE-5528
8022	Stevens Robt	EN-5276
8026	Foster Earl D	HE-6950
8106	Straigas Frank Mrs	SW-1319
8108	Grom Kaspar R	CE-8189
8110	Barner Chas Lawrence	SW-1156
8110	Carpenter Robt E	RA-3855
8110	Denehy Margaret E	CE-1557
8114	Erickson Walter I	GA-0047
8114	Holzman Inez	RA-4450
8116	Wingate Mary Mrs	CE-6044
8118	Willkomm H	GA-3831
8120	Friedel Adolph	CE-3197
8203	Zuchowska Stephanie	CE-2901
8203	Zucker Estelle	CE-2901
8207	Beduhn L W	RA-2031
8211	Stevens Fred J	SW-0850
8303	Scheel Nick	CE-2314
8307	Bozic Jos P	RA-4531
8311	McGovern Jane M	GA-5574
8311	McGovern Mabel S Miss	GA-5574
8409	Flynn Thos M	GA-5016
8415	Miller Burt	CE-4107
8415	Richardson Francis	GA-7189
8419	Roth Fred	RA-3493
8501	Baker Wendell M	GA-8792
8501	Faultless Roofing Co	GA-8792
8503	Boyer J J	RA-6724
8509	Smith Frank M	GA-8973
8513	Beale F D	RA-3408
8519	Oquir Jos J	RA-8916
8521	De Angelis Thos A F	GA-0162

DEERFIELD DR (Parma)

7520	O'Connell Wm M	SH-6398
7603	Schechter A J	FL-6398
7607	Briggs Guy S	SH-8480
7611	Price J A	FL-3897
7620	Jirka Jos F Jr	FL-8969
7703	McMahan J C	SH-3790
7704	Hoffmann Carl	FL-7805
7711	Trackler T D	FL-5785
7716	Klein Michael	FL-8477
7802	Boyer Norman B	SH-1312
7810	Henniger Dorothea Mrs	SH-1005
7811	Czubinsky Wm	SH-1033
7902	Simon Dave J	SH-7845
7910	Bohaty Chas	FL-8169
7915	Vlasyat H J	FL-7288
8003	Young Christian	SH-6543
8007	Kling E F E	SH-2890
8219	Jira Jos	SH-0865
8327	Hovorka Jos	SH-7220
8327	Pospisil Jos	SH-7220

DEERING AVE (Parma Hts)

5974	Secret J W	FL-5871
6040	Kiltzer Josef	SH-3093

Actual Street Numbers Not Given

Cleveland City of  
Water & Heat  
Parma Reservoir FL-6787

DEERING AVE SE

10706	Bowser N H	GA-8917
10708	Allen Marie Louise	RA-2943
10708	Stockton Lephie Mrs	RA-2943
10710	Hunter C E L	RA-5589
10712	Brainerd Zillah R	GA-1648
10714	Butler H H	GA-7446
10716	Murphy F M	GA-8874
10720	Hubbell Virginia	SW-2111
10834	Baum Emanuel	CE-1282
10834	Kortheuer Frances B Mrs	RA-2663
10834	McGann Emma M	SW-3077
10834	Montgomery Louise Florence	RA-3064
10834	Moray Alice B	CE-3157
10834	Scotfield Harriet	SW-0552
10838	Conley Celestine	GA-6368
10838	Green M Mrs	CE-2151
10838	Joseph Horatio J	CE-6185
10838	Krauss Marjorie	RA-9745
10838	Smith Paul	GA-2855
10838	Steuer Leonard Dr	CE-2151
10838	Wolf Morris H	RA-5334
10838	Wolf C I	RA-6893

DE FOREST AVE SE

16625	Dienes Clarence	WA-6856
16798	Kalchert Elmer	WA-2732
16902	Jesse Adolph	LO-1739

DE FOREST RD SE

2162	Goss John P	RA-0027
2166	Castle Howard D Jr	SW-2782
2166	Kenyon Ruth	RA-7894
2166	Klug John M	GA-2432
2170	Bruno N A	SW-2555
2170	Lallo Peter J	GA-1905
2170	Gonder Freda M	RA-482
2178	Del Greco Albert	GA-6185

DEISE AVE NE

13602	Harwood Lyle	LI-0948
13603	Hook Albert G	GL-1526
13609	Trumbley Geo	MU-3954
13606	Davnes Hans	MU-3328
13607	Wagor Geo F	PO-0374
13611	Vergon Marvin	PO-4442
13612	Tiefenbach Frank	LI-1936
13613	Ruban Peter	MU-1573
13614	Applegate Geo F	LI-2243
13615	Urbancie Adolph	LI-4906
13616	Wells L W	PO-8198
13617	Habe John L	MU-4064
13618	Krafels Gasper	LI-3013
13622	Moeller Harvey	PO-1070
13623	Bizak Louis	PO-7908
13624	Snow Landon R	PO-3696
13700	Glawp Ernest	MU-1473
13701	Glawitsch Ernest	MU-5587
13702	Colbow Chas L	PO-3717
13705	Stopar Mary Mrs	MU-5682
13710	Stencer Pearl	LI-0402
13714	Cery Alcazar	MU-2867
13715	Jakubs Adam	LI-2631
13716	Wultschner John	LI-5410
13720	Flecksstner Frank Jr	LI-0325
13722	Stromski Walter	MU-7504
13723	Samer Leo	PO-0313
13800	Moser Mary Mrs	LI-7243
13803	Workman Norma	LI-7774
13804	Depner Rose	PO-7769
13804	Shaw Jane Mrs	LI-1090
13810	Gough E G	LI-5860
13810	Marling Byron	MU-7844
13811	Reltner Edw	LI-1857
13815	Wobitgen Anna M	LI-9200
13815	Siarick John	PO-4022
13816	Zimmerman Wilbert	LI-4904
13817	Clifford Mahel	MU-9389
13820	Shoff Maxwell F	MU-7444
13903	Benchina John	LI-3892

DELAMERE DR (Cleve Hts)

2214	Parker McRea	FA-3535
2215	Warner Elbridge S	YE-0363
2222	White Roland W	FA-2755
2225	Strong H W	FA-2355
2231	Green Howard Whipple	FA-2017
2237	Dillhoefer H M	FA-0774
2240	King Ralph T Jr	YE-0449
2250	Hollis Howard C	ER-1697
2253	Bailey Walter K	YE-1852
2258	Mann Maynard L	FA-7112
2259	Perkins True	ER-1270
2267	Saunders A C Jr	FA-0615
2312	Baldwin W E	FA-3762
2318	Taylor V C 2d	FA-0205
2322	Curtiss H S	FA-1668
2325	Bishop Geo F	FA-3427

DELAMERE DR (Cleve Hts)  
(Continued)

2330	King Ralph Mrs	YE-3157
2335	Ealis Howard P Mrs	ER-2483
2335	Hume Allan C	ER-2483
2339	Schmalz Fred A	ER-0385
2350	Burton J Prescott	FA-4504
2357	Motto M Paul	YE-8831
2360	Cox Merrill	FA-0544
2364	Schlitt Herbert L	FA-7337
2369	Hill Walter C Dr	YE-1722
2372	Eells Jas	ER-1840

DELANAN RD NE

17715	Aufmuth W A	KE-3106
17720	Batchlet Robt L	KE-4057
17720	Lisowski Henry A	KE-0545
17724	Brencic Anton	IV-4076
17802	Coff Vincent	IV-3176
17805	Opalek Henry	IV-5882
17806	Gubanc Jos	KE-3106
17810	Mosall Erwin	IV-7358
17814	Gleyforst Howard H	IV-0313
17814	Thomas Victor	IV-0313
17817	Calaman V	KE-6047
17817	Tisovec J	KE-5711
17900	Pekol John	KE-3174
17900	Sneek Louis Jr	IV-3174
17901	Scott Harry W	IV-5064
17909	Hanson Albert	IV-0896
17913	Hall Fred	IV-4527
17915	Dague M W	KE-2680
17915	Marcus Stephen R	IV-6173
17916	Walsh Patricia Miss	KE-4681
17924	Voelker Henry	KE-1195
17933	Johnson Emil J	IV-3109
17937	Brepitzer Paul H	KE-3109
17937	Misam Edw	IV-3230
18001	Gehlfuss Pauline Mrs	KE-5227

DELAWARE AVE (Lkwd)

For Electric Light and Power Service

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Call CHERRY 4200

The Doty McCaslin Co.

Building Management Real Estate Appraisals Insurance

Member Cleveland Real Estate Board

Williamson Bldg.

Main 4386

Berea Post Office Block Phone 853

Investment Securities

MITCHELL HERRICK & CO.

700 CUYAHOGA BUILDING

LEVELAND OHIO

Phone MAin 6400

LEVELAND CANTON

AKRON CINCINNATI COLUMBUS PRINGFIELD

DANIEL AV NE (P-2) - First south of Waterloo rd. from 4725 E 152d

DANVILLE CT SE (N-7) - First north of Woodland av. from 2573 E 41st east

DARTMOUTH RD. CH (O-7) - First east of Lee rd. from 3240 E Monmouth

DARTMOUTH AV NW (O-10) - Second north of Lorain, from 3685 W 165th west to Oxford av

DARWIN AV NE (P-2) - Third north of NY-22, from 507 E 140th east to E 152d

DAWN AV SE (M-8) - Second north of Kinsman rd. from 2031 E 82d east to E 83d

DAWKINSON AV SW (I-11) - From 4430 W 25th west to W 2031 E 82d east to E 83d

DAWKINSON AV SW (I-11) - From 4430 W 25th west to W 2031 E 82d east to E 83d

DEERING AV SE - (O-11) - Fourth south of Harvard av from 426 Levee rd east to E 176th

DE FOREST AV SE (N-7) - From 11030 Carnegie av south to Starvation av

DECATUR COURT SE (K-7) - First south of Winkland av east to E 14th

DECKER AV NE (M-5) - Second south of Addison rd east to E 8th

METZGER General Insurance HICKOX BLDG. - CHERRY 5860 METZGER Surety Bonds

CLEVELAND ADDRESS TELEPHONE DIRECTORY

**DARTMOUTH AVE NW**  
(Continued)

16802 Barnes V V r. CL-1052  
 16803 Helms T F r. CL-3133-M  
 16806 Schuld Peter r. CL-0622-J  
 16807 Zeit J J r. CL-2409-R  
 16810 Kendall V R r. CL-0512-W  
 16902 Hrubec John r. CL-3445  
 16906 Dunasky J E r. CL-5869-W  
 16910 Conlon Jas r. CL-0512-J  
 17214 Marrer Leo J r. CL-2261-J  
 17218 Kleinschnitz A r. CL-3266-M  
 17300 Kleinschnitz C E r. CL-0323-J  
 17301 Dittman Anne r. CL-2265-M  
 17305 Kuhn Geo M r. CL-2267-R  
 17309 Brown Elsie M Mrs r. CL-2267-W  
 17316 Barth Wm A r. CL-2258-J  
 17317 Geiger August r. CL-0859-M  
 17400 Kenney E J r. CL-2258-W  
 17401 Grapes J H r. CL-0859-W  
 17404 Rayel Michael r. CL-3266-W  
 17405 Moses Jos r. CL-2269-J  
 17409 Morisey M B r. CL-2269-M  
 17412 Retzer C J r. CL-3324  
 17412 Retzer W J Dr r. CL-3324  
 17413 King Chas G r. CL-2269-R  
 17417 Archibald Charles F r. CL-2449-W  
 17417 Gaulty Jas F r. CL-2092-W  
 17421 Fintz Jno r. CL-2261-M  
 17424 Maurath Fred r. CL-0541-J  
 17500 Grauly Ed r. CL-0541-J  
 17501 Roche W P r. CL-2092-M  
 17515 Sheerer J S r. CL-2271-R  
 17516 Luebbert H C r. CL-2095  
 17520 Hillbrandt Robt r. CL-2436-R  
 17520 Joss Wilbert J r. CL-2436-R  
 17520 Tiscitler Geo A MD r. CL-2436-R

**DARTWORTH DR (Parma)**

6714 Johnson Irwin E r. SH-2110-W  
 6718 Mayer Geo W r. SH-4271-R  
 6802 Egger Herman G r. SH-4271-W  
 6807 Deis Leo F r. SH-1850-W  
 6810 Carlson W F r. SH-1735-W  
 6910 Krueger Erna r. SH-1807-R  
 7003 Zumpff Frederick A r. SH-1763-M  
 7010 Gross Louis r. SH-1807-M  
 7103 Fitzgerald Gerald r. SH-3871-R  
 7110 Fitzgerl Wesley J r. SH-4229-W  
 7202 Boyes H R r. SH-4229-J  
 7420 Phelps Chas A r. SH-4261-R  
 7423 Blazy D L r. SH-2244-R  
 7509 Meyer Walter C r. SH-1825-M  
 7515 Fredrick L C r. SH-4029-R  
 7717 Haller Henry r. SH-3358-M  
 7906 Gupton John J r. SH-1823-R  
 8115 Danforth Dewitt W r. SH-3358-W

**DARWIN AVE NE**

14012 Radcliffe Thomas r. LI-1023  
 14117 McIlraith Frank r. ED-0093-J  
 14204 Rebel Edward r. PD-4727  
 14205 Lorber Frank r. LI-7225  
 14308 Bernstein A J r. LI-0954  
 14316 Murphy Laura r. LI-1881  
 14316 Powers Richard D r. LI-1881  
 14401 Harding Virginia M r. MU-1115  
 14415 Gall Margaret r. LI-6225  
 14504 Cassidy Elmer r. LI-8854  
 14709 Terhune W P r. PD-5730  
 14715 Mic Kovic Wesley A r. PD-6656  
 14902 Collinwood Lbr Co. MU-0472  
 15005 Joshua Geo r. MU-2629  
 15105 Star Products Inc. GL-0384

**DAVENPORT AVE NE**

1445 Honeymoon Food Products Co. PR-3790  
 1452 Union Garage MA-9485  
 1476 Gund Realty Co. PR-7636  
 1476 Sunrise Brewing Co. PR-1600  
 2138 Norris Brothers Co. PR-2234

**DAVIS CT (Lkwd)**

11821 Ralph Matthew John r. LA-2805-R

**DAWNING AVE SW**

3509 Ebersole J r. SH-1043-W  
 3525 Kubitzke Aug r. SH-1806-J  
 3601 Stuebe Lucille r. SH-1806-M  
 3605 Fritch Gertrude r. SH-1083-W  
 3625 Berrey K r. SH-0156-M  
 3704 Caldwell A J r. SH-0156-M  
 3714 Kolecki Joseph F r. SH-1049-W  
 3829 Sanders Norman C r. SH-1049-J

**DAWNSHIRE DR (Parma)**

3706 Brooks R T r. SH-3960-W  
 3900 Vogler John S r. SH-0484-W  
 4002 Kaufman Geo E r. SH-3481-J  
 4011 Hallock Lawrence E r. SH-1497-M  
 4102 Hufe Walter r. SH-3960-J  
 4107 Garrison Earl r. SH-4245

**DEANWOOD RD (E Cleve)**

2067 Workman James D r. PO-6526

**DEARBORN AVE SW**

7114 Hodge Frances r. EV-2136-J  
 7115 Cleve Brush Factory. WO-0855  
 7115 Lawrence Geo E & Co. WO-0855  
 7203 Conant Eva M r. WO-0200  
 7203 Conant W Harry r. WO-0200  
 7212 Eckhardt Henry r. EV-3848-M  
 7213 Barton Robert J r. EV-3848-R  
 7402 Thompson R D r. EV-4878-W  
 7402 Schindler Martin D Jr r. WO-4354  
 7403 Feder Julius R r. EV-4818-M  
 7409 Anderson Norman F r. WO-0130-J  
 7506 Kaloczi John C r. EV-0837-R  
 7508 Herrmann Carl r. EV-0837-M  
 7513 Goldsworth Wm H r. EV-4876-W  
 7517 Hein Marie Mrs r. EV-4876-M  
 7611 Dwyer H F r. EV-5275-J  
 7610 Weinacht Elroy F r. EV-5452-M  
 7804 Knarr Geo J r. ME-0306-R  
 7805 Eland Helen r. EV-2262-M  
 7807 Kramer Chas J r. EV-5275-M  
 7808 Swinderman Chas F r. EV-5452-J  
 7900 Meister Chas r. EV-5030-R  
 7904 Cotton W A r. EV-2178-W  
 7908 Berry S J r. EV-0582-M  
 7911 Bouman Geo r. EV-2855-J

**DECKER AVE NE**

7501 Heiniger John r. EN-1970  
 7505 Morrison Richard L r. RE-8435-J  
 7506 Albrecht Ernest W r. EN-0378  
 7510 Davidson Frank r. EN-0157  
 7511 Hoenig Justine r. RE-7488-M  
 7523 Charnoky Michael A r. RE-0989-R  
 7524 Platelt Wm C r. EN-0880  
 7610 Artists Supply Co. EN-2776  
 7613 Lank A & G W r. HE-0333  
 7613 Driscoll Grace Miss r. EN-0140  
 7614 Wahl Wm C r. RE-0235-M  
 7718 Podboy Jas r. HE-1628  
 7720 Hook John r. HE-3586  
 7721 Lehmeier Nicholas r. RE-8543-W  
 7722 Kelly Patk r. EN-0776  
 7723 Allison John r. HE-4489  
 7724 Powers M M r. HE-1564  
 7802 Gartshore J H r. EN-1889  
 7804 Norris K E r. HE-1793  
 7807 Chans J r. EN-0943  
 7813 Witt John J r. HE-7267  
 7814 Worthington Judd r. EN-5004  
 7817 Tice Metta L r. HE-2049  
 7821 Voelkel Ethan G r. EN-3859  
 7904 Helms Louise Doratha r. EN-3147  
 7919 Thomas H H r. RE-8673-R  
 8015 Dittmar J F r. HE-5183  
 8016 Rancken Inez Mrs r. EN-0190  
 8018 Sirl Jos C r. HE-8412  
 8026 Homer Richard W r. RE-5824-W  
 8110 Jones William r. GA-3831  
 8114 Benson G W r. GA-3831  
 8118 Willkomm M r. RE-5824-J  
 8120 Friedel Dorothy r. GA-0881-R  
 8203 Burke Edw J r. RE-4335-R  
 8207 Beduhn L W r. RE-4335-R  
 8211 Ribbeck Carl r. RE-5029-M  
 8307 Webb T E r. RE-4335-M  
 8311 McGovern Jane M r. RE-4335-M  
 8311 McGovern Mabel G Miss r. RE-4335-M  
 8409 Aiken Bruce H r. RE-8356-W  
 8409 Flynn Thos M r. GA-5016-M  
 8415 Brent Steve T r. RE-8356-J  
 8415 Mann Emily Mrs r. CE-4669  
 8415 Schweizer R A r. RE-8028-W  
 8419 McBeth C r. GA-4229-J  
 8419 Pickett Lillian Alice r. GA-4229-J  
 8503 Stuhler J W r. CE-0018-M  
 8513 Beale F D r. RE-8404-J  
 8519 Collins J C Mrs r. RE-0759-W

**DEERFIELD DR (Parma)**

7607 Briggs Guy S r. SH-1228-R  
 7615 Denk Fred S r. SH-0737  
 7619 DeFazio Joseph r. SH-1510  
 7716 Leach Frederic J r. SH-2999-W  
 7811 Gullifer F r. SH-3406-M  
 7910 Bochlin Frank r. SH-1228-J  
 8219 Nowlin S S r. SH-2999-M

**DEERING AVE (Parma Hts)**

5897 Hoffstetter Irvin r. SH-2065-J  
 5974 Conrad G H r. SH-2838

**DEERING AVE SE**

10712 Tubbs Verona Miss r. RE-5278-J  
 10716 Marsh F M r. GA-8574-J  
 10718 Edwards Grace M r. CE-4285-M  
 10720 Grauer Wm C r. GA-6875

**DEERING AVE SE**  
(Continued)

10834 Barr May r. RE-3369-J  
 10834 Baum Emanuel r. RE-3369-W  
 10834 Carlton Frank T r. GA-5417-W  
 10834 Kortheuer F B Studio. GA-4550  
 10834 Reinthal Sigmund r. RE-3369-W  
 10834 Walker H J r. CE-7049  
 10838 Green M Mrs r. CE-2151  
 10838 Joseph Moratio J r. RE-4222-R  
 10838 Miller Dayton C r. GA-5853-J  
 10838 Salinger Marcel r. GA-2066  
 10838 Schroeder W C r. GA-4774

**DE FOREST RD SE**

2162 Goss John P r. RE-8661-M  
 2166 Excelsior Mantel & Tile Co. GA-1585  
 2166 Magic Iron Cement Co. GA-1585  
 2166 Renda A W. GA-1585  
 2174 Gonder Freda M r. RE-3520-R

**DEISE AVE NE**

13618 Clary Sidney L r. LI-1132  
 13622 Moeller Jessie Mrs r. LI-3964  
 13803 Lockwood Dorothy r. LI-3174  
 13902 Micco Jas C r. ED-0393-J

**DELAMERE DR (Cleve Hts)**

2215 Allen Frances C Mrs r. FA-1651  
 2215 Davis Robt H r. FA-1651  
 2222 White Roland W r. FA-2755  
 2225 Strong H W r. FA-2355  
 2231 Green Howard W r. FA-2017  
 2237 Tillotson E G r. FA-4373  
 2240 King Ralph T r. YE-0444  
 2250 Foster W H r. FA-1501  
 2253 Culbertson H E r. FA-2611  
 2258 Bidde L A r. FA-0065  
 2259 Wick K B r. FA-0615  
 2267 Saunders A C Jr r. FA-3762  
 2312 Baldwin W E r. FA-0205  
 2318 Taylor V C 2d r. FA-1668  
 2322 Curtiss H S r. FA-3427  
 2325 Bishop Geo F Dr r. YE-3157  
 2330 Sherman Prudence Miss r. FA-0775  
 2335 White Thos H r. FA-2573  
 2339 Coolidge S B r. FA-4504  
 2350 Burton J Prescott r. FA-3132  
 2357 Bloch Louis M r. YE-0980  
 2360 Weber Loren B r. FA-7337  
 2364 Schlitt Herbert L r. YE-1722  
 2369 Hill Walter C Dr r. FA-1651

**DELAVAN RD NE**

17810 Shaw T Mrs r. KE-3018-J  
 17814 Gleyfost Howard H r. KE-3018-R  
 17901 Scott Harry W r. KE-0609-M  
 17905 Hecker F J r. KE-3089-J  
 17909 Hanson Albert r. KE-0602-R  
 18001 Jones Jas Edw r. KE-3109-W

**DELAWARE AVE (Lkwd)**

14211 Keele J H r. BO-3855-R  
 14215 Schroth Jos r. BO-3855-J  
 14218 Hanenberg R G r. BO-1435-R  
 14227 Friedel Henry J r. BO-1125-J  
 14234 Hovanec Geo r. BO-1435-M  
 14235 Davidson Adam M r. BO-1125-R  
 14235 Howe Jessie Mrs r. BO-1125-M  
 14241 Graham Fred A r. LA-6239  
 14302 Politt Jack r. LA-4431  
 14310 Fought F A Jr r. BO-2480-R  
 14313 Royse Bernard L r. LA-6629-R  
 14315 Powers H J r. BO-0986-J  
 14318 Bailey E r. BO-0910-R  
 14319 McLean Albert L r. BO-2299-J  
 14320 Heibel Wm E r. BO-1569-J  
 14415 Bittinger M B r. BO-0676-J  
 14416 Savage J W r. BO-2574  
 14417 Koch Raymond r. LA-0306-W  
 14419 Beaman A G r. BO-0837-R  
 14420 Minter W D r. BO-0531-J  
 14421 Crouder E R r. BO-0624-M  
 14424 Neumann Arthur E r. LA-0576-J  
 14426 Tallman J D r. BO-0569-R  
 14428 Gross Walter E r. LA-5217  
 14429 Walters J S r. BO-2536-J  
 14431 English F E r. BO-2452-M  
 14432 Harris J Gilkeson r. BO-1108-W  
 14434 Mulyhill H D r. BO-3616-W  
 14503 Gray W J r. BO-2452-R  
 14504 Gottwals Paul O r. BO-3616-R  
 14505 Gill John Wilson r. LA-6372-J  
 14510 Myers D Walter r. BO-2720-J  
 14514 Simpson Arthur C r. BO-1292-J  
 14518 Harvey Alma L Mrs r. BO-2559-J  
 14522 Yarhouse W T r. BO-3137-J  
 14524 O'Reilly T C r. BO-3137-J

**DELAWARE AVE (Lkwd)**  
(Continued)

14703 Quigley George B Jr r. LA-0401-M  
 14704 Reese M r. BO-3236-J  
 14715 Nuss J Ernest r. LA-6880  
 14719 Black Cal r. LA-8733  
 14719 Black Wm C r. LA-8733  
 14723 Frank Henry F r. BO-2495-W  
 14918 Kinnison Howard L r. LA-0419-J  
 14919 Rouse Byron B r. LA-8112-R  
 14921 LaFraniere Frank r. LA-7730-R  
 14925 Yesberger L A r. LA-5413-W  
 14927 Cornwell Hubert D r. LA-7730-J  
 14928 Polcar Jas J r. LA-2420-W  
 14929 Lietz Paul r. LA-8112-M  
 14932 Frost Stanley E r. BO-2191-J  
 14934 Buchanan Andrew r. LA-7220-W  
 14937 Drehs Wilbert J r. LA-7220-M  
 14941 Burkemert Murray E r. BO-3830-W  
 14942 Borchart Clarence r. LA-0430-J  
 14943 Thorley Wade r. BO-4380-W  
 14944 Simons Irving O r. BO-4380-W  
 14944 Simons Olive A r. BO-3448-R  
 14950 Eichlberger B R Miss r. BO-1143  
 14954 Smith Jay S r. BO-2159-J  
 14955 Stemmerding H N r. BO-2159-J  
 14956 Block Henry J E r. LA-7220-R  
 14957 Jung Wm r. BO-2159-J  
 14959 Harbaugh J G r. BO-2716-M  
 14960 Fell F r. BO-7746-W  
 14965 Cleary J Edward r. LA-6378-R  
 14967 Hartsock J W r. BO-4380-J  
 14972 Swinton Gordon r. BO-1221-R  
 14973 Carlin W R r. LA-1115  
 14977 West G E r. LA-6129-M  
 14979 Enquist Ralph A r. LA-6378-R  
 15401 Novak Jos r. BO-1221-W  
 15405 Jones Geo H Rev r. BO-1221-J  
 15411 Brown C E r. LA-8974-M  
 15411 Leypley Glenn W r. LA-8974-M  
 15519 Elgin E r. BO-0350  
 15520 Sidnell R G r. LA-8974-M  
 15521 Berrington Frank P r. LA-9705-M  
 15523 Milburn B S r. LA-9705-M  
 15525 Eno John C r. BO-0097-M  
 15533 Thomas Robt C r. LA-4510-J  
 15535 Gebhardt D R r. LA-4531-W  
 15537 Denny Wm C r. LA-4531-W  
 15541 O'Neill E M r. LA-4531-W  
 15541 Pecka Marie R r. LA-4531-W  
 15507 Reinker Adeline Miss r. LA-8974-R  
 15611 Evenson Grace F Miss r. BO-1145-J  
 15611 Power W E G r. BO-1145-R  
 15614 Werner T r. LA-1075-J  
 15615 Harlow Ray L r. LA-6511  
 15615 Linder Julius r. BO-3445-R  
 15619 Smith W J S r. LA-0958-M  
 15621 Duer J Earl r. BO-3445-J  
 15623 Arndt Howard r. LA-0958-J  
 15625 Newirth Chas F r. LA-1360-W  
 15627 Connors J T r. LA-4557-W  
 15631 Cooke Jos r. LA-0958-W  
 15633 Winch Henry A r. LA-4122-R  
 15703 Ross Eric F r. LA-9107-W  
 15707 Buckingham R Nace r. LA-3254-R  
 15709 Stouffer Wm E r. LA-6573-W  
 15711 Bull Walter S r. LA-2715-R  
 15713 Root H F r. BO-3904-M  
 15603 Smith Lilian B r. LA-0357-R  
 15607 Garbutt T A r. LA-0357-M  
 16617 Zeman S F r. LA-9293-R  
 16615 Nemeo Jos S r. LA-1141  
 16617 Kruse J R r. LA-9293-J  
 16619 Obrock E F r. BO-1624-R  
 16621 McGunagle Fred F r. BO-0500-R  
 16701 Osterland N J r. LA-9293-M  
 16703 Ardeman Clyde r. BO-1624-M  
 16708 Leckrone John H r. BO-4360-W  
 16708 Lent E C r. BO-4360-W  
 16714 Fay Benl S r. BO-2069-J  
 16714 Vitchek John F r. BO-1624-J  
 16715 Hovance Geo r. LA-9490-J  
 16717 Moores Wm r. LA-0889-M  
 16800 Perry R J r. LA-3965-R  
 16801 Pettigrew H S r. LA-0889-R  
 16802 Nagel Melvin J r. LA-9819-W  
 16803 Burns Cloe C r. LA-8919-W  
 16805 Van Bergen H C r. LA-9386-W  
 16809 Lonn C A r. LA-8214-J  
 16810 Roach Harry r. LA-0889-J  
 16811 Neuhaus W r. LA-5420-J  
 16812 Quallich Martin W r. BO-3561-W  
 16900 Haley F T r. BO-3561-W  
 16901 George Thos r. BO-2954-J  
 16905 Stevens Hoy r. BO-2954-J  
 16905 Stevens Louanna H r. LA-6363  
 16906 Rowe W H r. BO-2954-M  
 16907 Rice N W r. BO-2954-M  
 16909 Kearns Lawrence P r. BO-2954-W  
 16911 Calvert Francis V r. LA-7295-W  
 16913 Boulton R J r. LA-7295-W  
 16914 Canton Leo F r. BO-3046-J  
 16914 Trank Murray E r. LA-4205-J  
 16915 Brennan S C r. LA-5420-W  
 16917 Walter Arthur W r. LA-5420-W  
 16917 Walter Louise G Mrs r. LA-3527-R  
 17005 Bower Wallace H r. LA-8067-J  
 17008 Platt Vernon E r. BO-3046-W  
 17012 Schneider H J r. LA-2236  
 17013 Corderly A R r. LA-9073-M  
 17022 Barber C Glenn MD r. LA-8086-J  
 17022 Barber F E r. LA-8086-J  
 17200 Sowles Cecil E r. LA-8873-J



**USER QUESTIONNAIRE  
TO COMPLY WITH THE FEDERAL ALL APPROPRIATE INQUIRIES RULE**

<b>Site Location:</b> 3203 W. 71 <sup>st</sup> Street, Cleveland, Ohio	
<b>Name of Person Completing this Form:</b>	
<b>Return Completed Form to:</b> Matt Pesci	
<b>Email Address:</b> mpesci@manniksmithgroup.com	<b>Fax No.:</b> 419.891.1595

1. What is the reason this Phase I Environmental Site Assessment (ESA) is being completed? vacant lot was prior warehouse.
2. Have you had title work prepared for the Site and if so, please provide us with a copy? No.
3. Are you aware of any environmental liens, judicial records or activity and use limitations (AULs) that have been recorded or rendered against the Site? If so, please describe. No.
4. Do you have any specialized knowledge related to the Site? For example, do you know: the former uses of the Site; do you know of specific chemicals that are or may have been used at the Site; do you know of any spills or chemical releases that may occurred at the Site; and are you aware of any environmental cleanups that may have occurred at the Site? Mostly unknown. Prior use was factory. Building was vacant when burned down & then demolished by city.
5. Are you aware of any environmental reports already completed for the Site? Environmental reports may include: environmental audits, environmental site assessments, environmental permits, underground storage tank registrations, hydrogeologic reports, drinking water well installation documentation and geotechnical studies. Please provide MSG with copies of all documents. No.
6. Is the lease or purchase price of the Site significantly lower than market value? If so, why? We have not established a purchase price. Trying to understand viability of redevelopment.
7. Based upon your knowledge and experience with the Site, are you aware of any environmental contamination at the Site? If yes, please describe. No. Unknown.

**[If needed, please use additional pages to fully respond to each question.]**

*K. Stegwald*  
Agg. Mgr, CCPE  
1/5/23

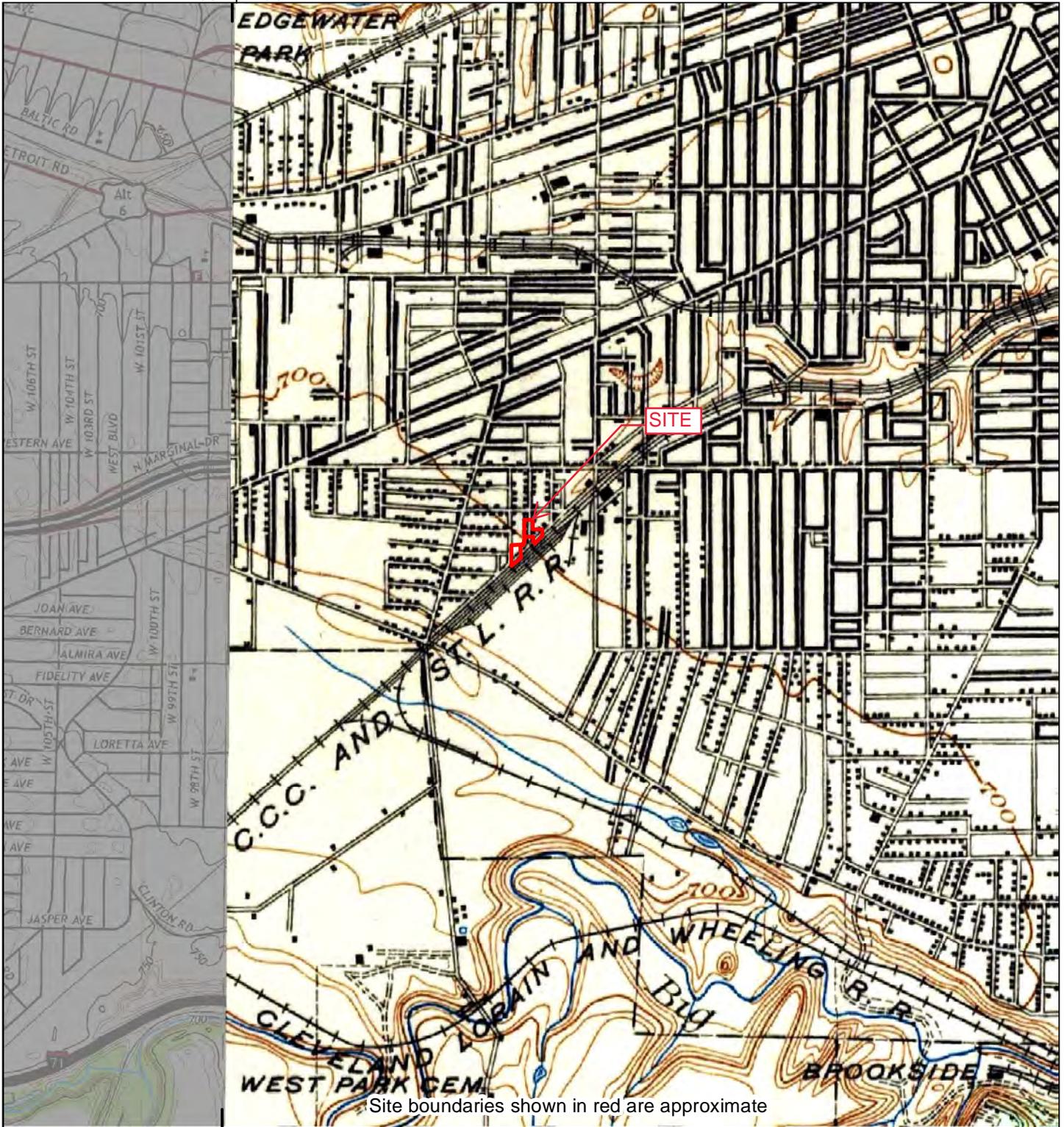
APPENDIX E  
HISTORICAL PHOTOGRAPHS AND MAPS



## TOPOGRAPHIC MAPS



81°45'W  
West | East



Site boundaries shown in red are approximate

West | East  
81°45'W

1903

0 Distance in Miles 1  
1: 24,000 (1"=2,000') NAD 1983 UTM Zone 17N

Site information:  
Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH 44102

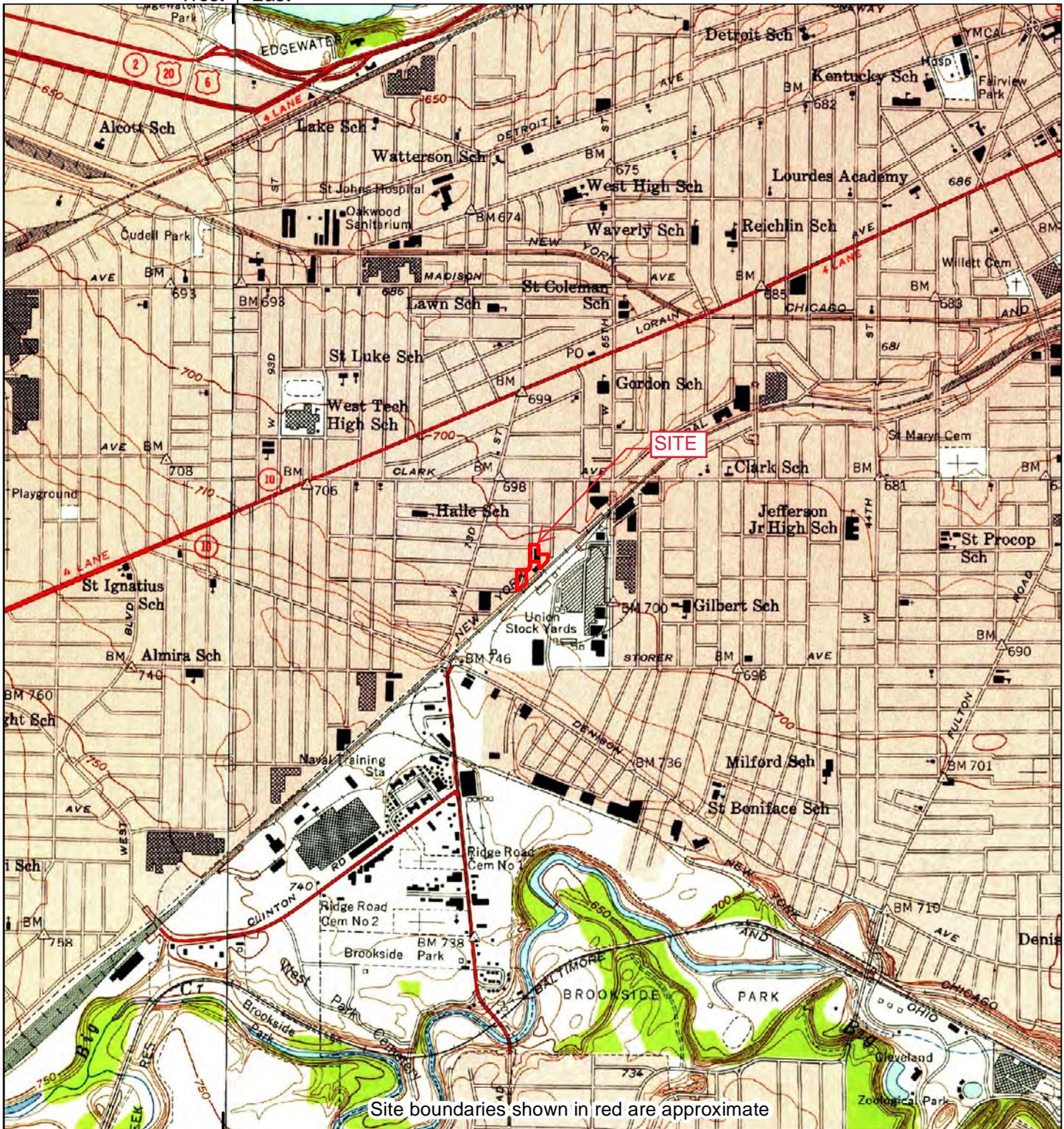


Unified maps show subdued modern topo features where corresponding maps of the same year were not published.

The Mannik & Smith Group, Inc. project #ODAS0003  
HIG #2071190 completed: 01/06/2023

Zone |		Topographic Map Name		Publisher		Map Size		Base Map		Aerial Photo Topo Updates		
East	West	Cleveland, OH		USGS		15' x 15'		1903		Photo Year	Inspected	Revised
										--	--	--

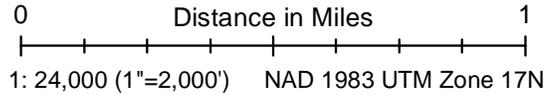
81°45'W  
West | East



Site boundaries shown in red are approximate

West | East  
81°45'W

1953



Site information:  
Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH 44102



Unified maps show subdued modern topo features where corresponding maps of the same year were not published.

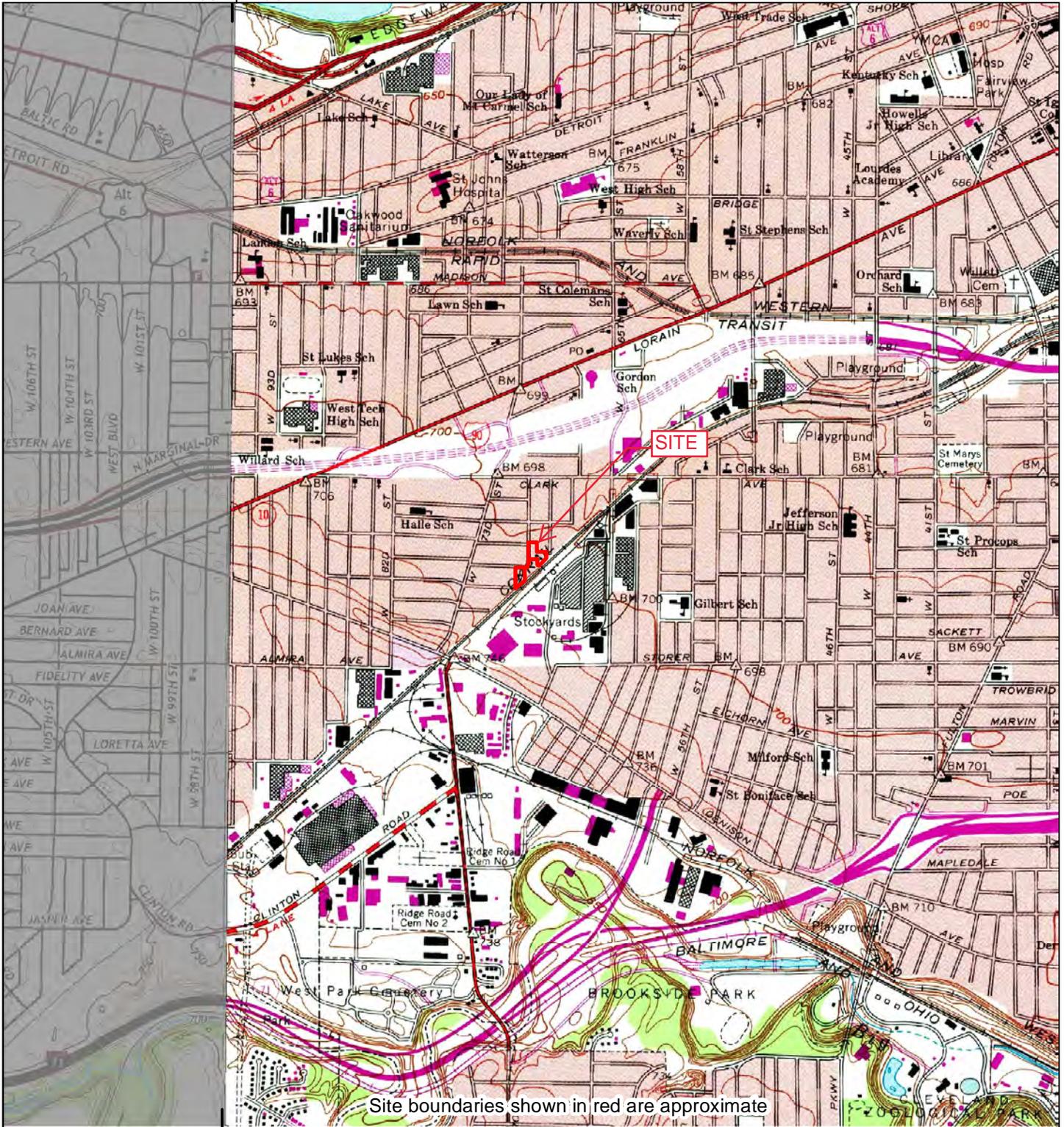
The Mannik & Smith Group, Inc. project #ODAS0003  
HIG #2071190 completed: 01/06/2023

Zone	Topographic Map Name	Publisher	Map Size	Base Map	Aerial Photo Topo Updates		
					Photo Year	Inspected	Revised
East	Cleveland South, OH	USGS	7½' x 7½'	1953	1952	--	--
West	Lakewood, OH	USGS	7½' x 7½'	1953	1952	--	--





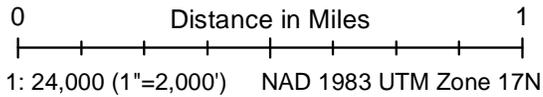
81°45'W  
West | East



Site boundaries shown in red are approximate

West | East  
81°45'W

1979



Site information:  
Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH 44102

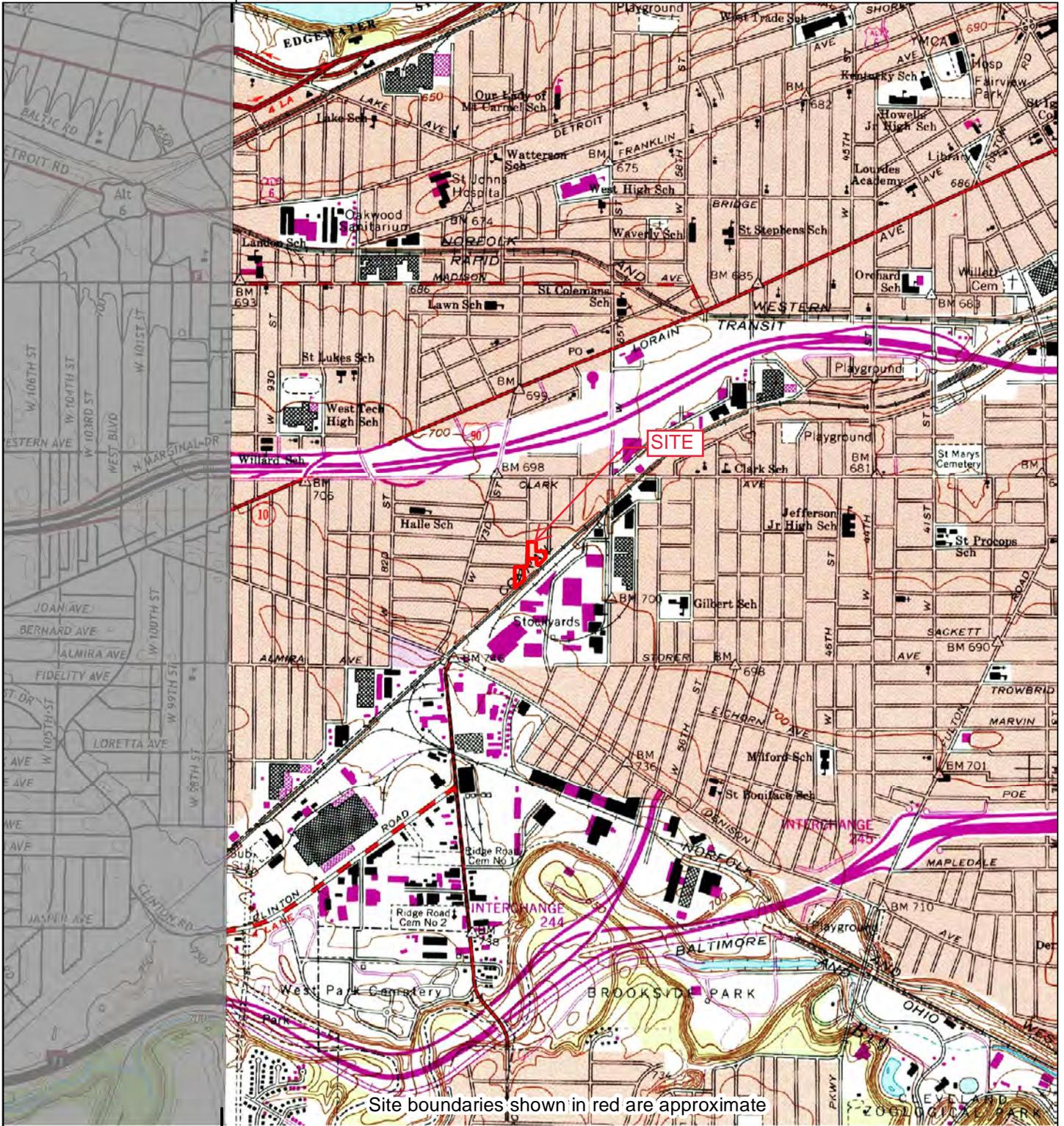


Unified maps show subdued modern topo features where corresponding maps of the same year were not published.

The Mannik & Smith Group, Inc. project #ODAS0003  
HIG #2071190 completed: 01/06/2023

		Aerial Photo Topo Updates					
Zone	Topographic Map Name	Publisher	Map Size	Base Map	Photo Year	Inspected	Revised
East	Cleveland South, OH	USGS	7½' x 7½'	1963	1977	--	1979

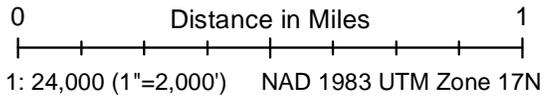
81°45'W  
West | East



Site boundaries shown in red are approximate

West | East  
81°45'W

1984



Site information:  
Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH 44102

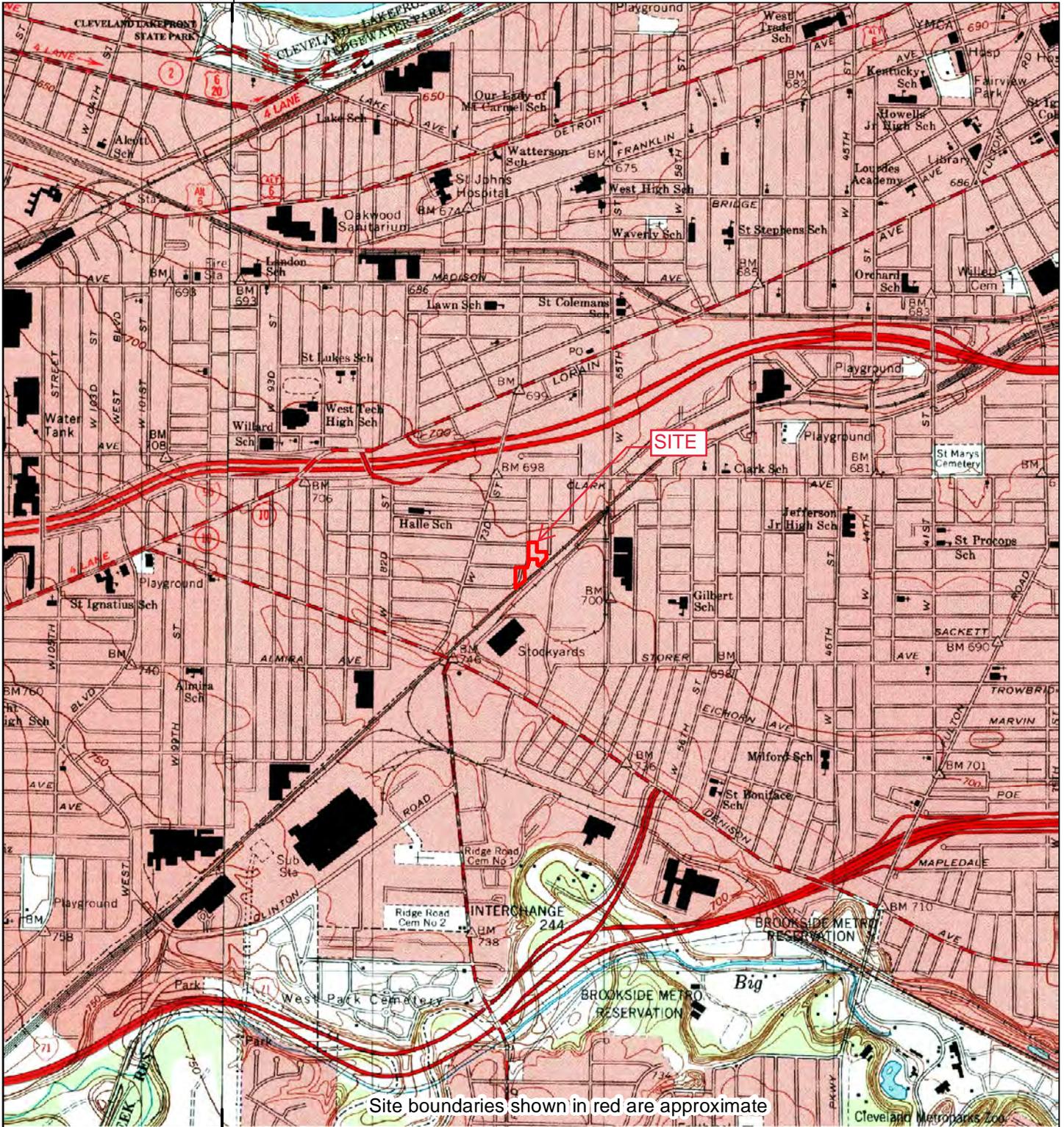


Unified maps show subdued modern topo features where corresponding maps of the same year were not published.

The Mannik & Smith Group, Inc. project #ODAS0003  
HIG #2071190 completed: 01/06/2023

			Aerial Photo Topo Updates				
Zone	Topographic Map Name	Publisher	Map Size	Base Map	Photo Year	Inspected	Revised
East	Cleveland South, OH	USGS	7½' x 7½'	1963	1982	--	1984

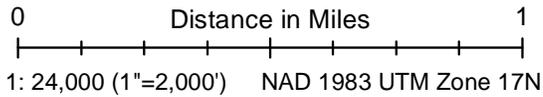
81°45'W  
West | East



Site boundaries shown in red are approximate

West | East  
81°45'W

1994



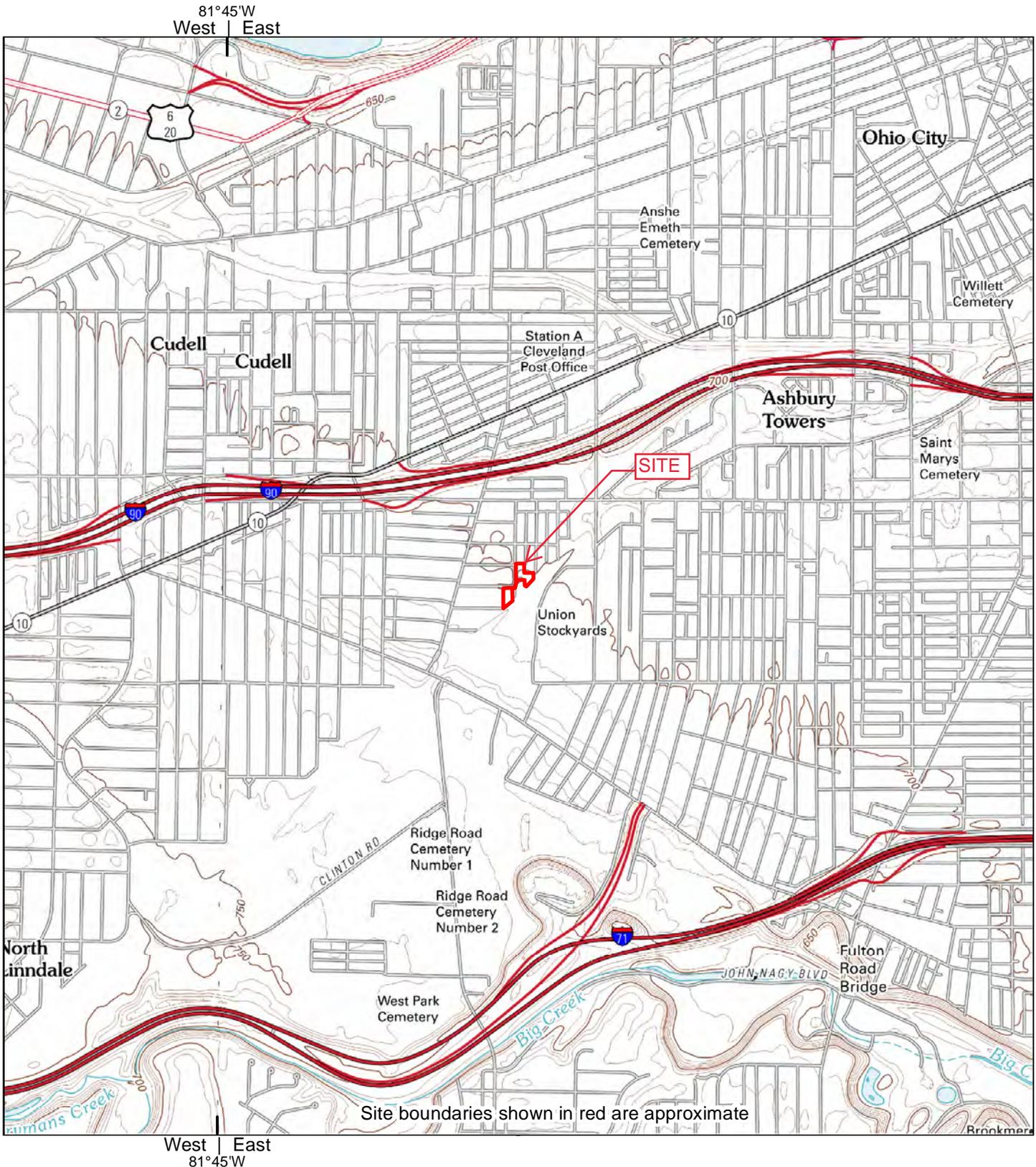
Site information:  
Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH 44102



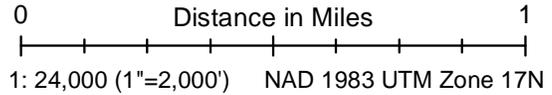
Unified maps show subdued modern topo features where corresponding maps of the same year were not published.

The Mannik & Smith Group, Inc. project #ODAS0003  
HIG #2071190 completed: 01/06/2023

Zone	Topographic Map Name	Publisher	Map Size	Base Map	Aerial Photo Topo Updates		
					Photo Year	Inspected	Revised
East	Cleveland South, OH	USGS	7½' x 7½'	1994	1994	--	--
West	Lakewood, OH	USGS	7½' x 7½'	1994	--	--	--



2010



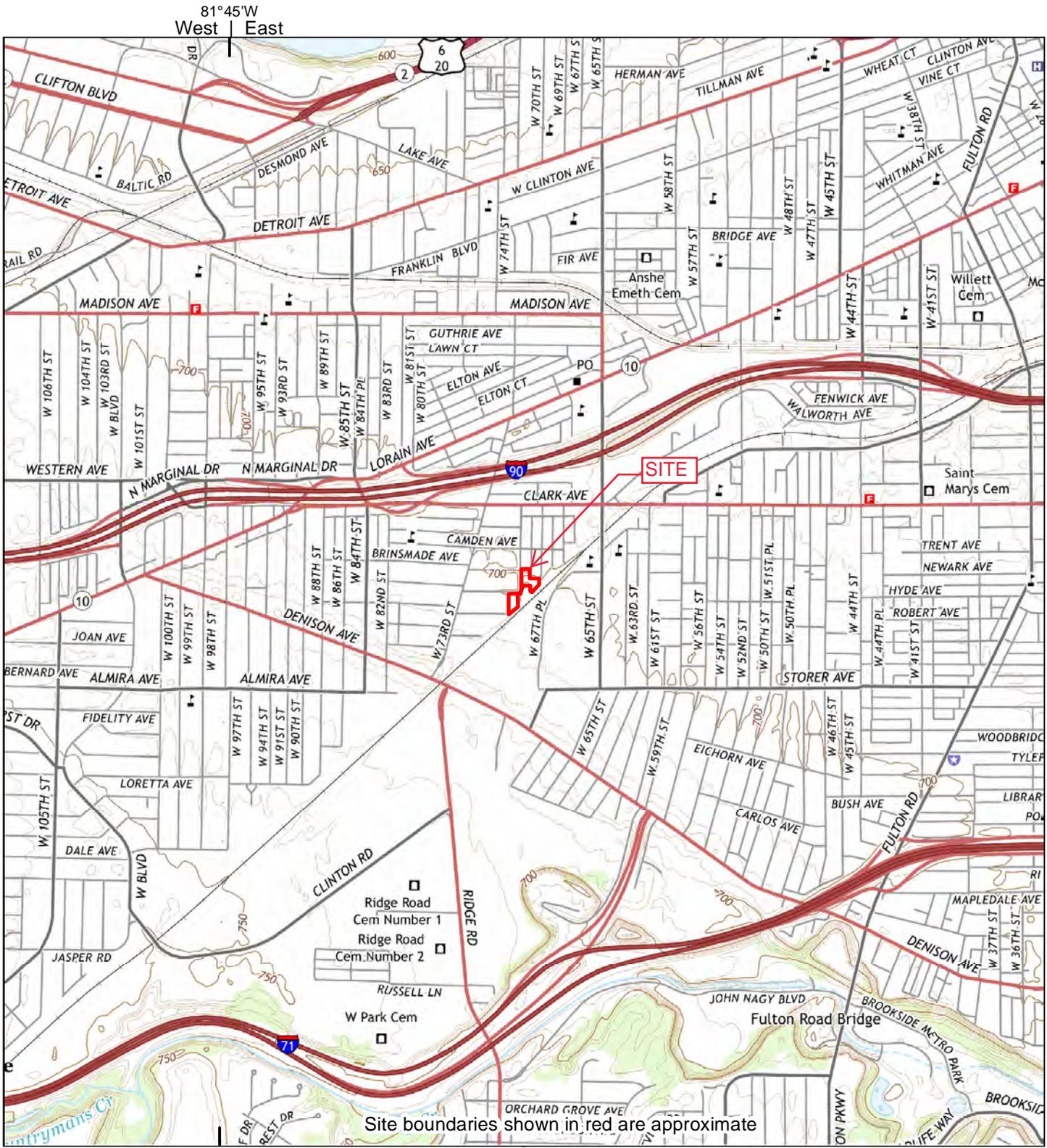
Site information:  
Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH 44102



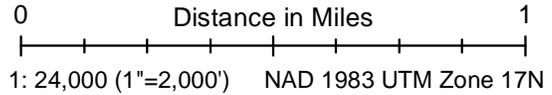
Unified maps show subdued modern topo features where corresponding maps of the same year were not published.

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HIG #2071190 completed: 01/06/2023

Zone	Topographic Map Name	Publisher	Map Size	Base Map	Aerial Photo Topo Updates		
					Photo Year	Inspected	Revised
East	Cleveland South, OH	USGS	7½' x 7½'	2010	--	--	--
West	Lakewood, OH	USGS	7½' x 7½'	2010	--	--	--



2013



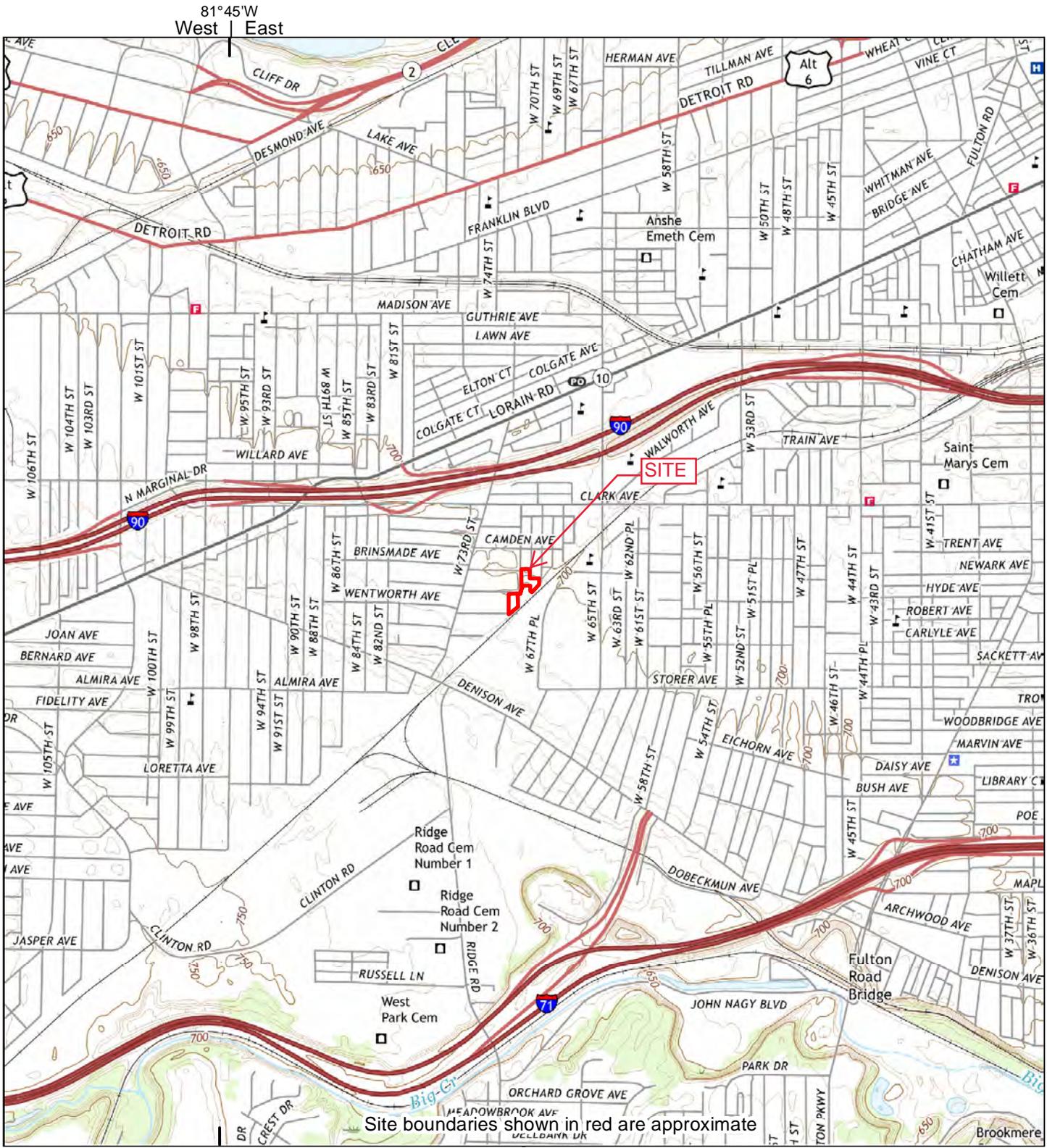
Site information:  
Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH 44102



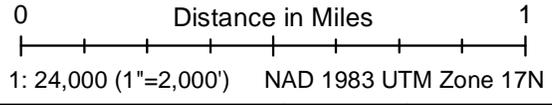
Unified maps show subdued modern topo features where corresponding maps of the same year were not published.

The Mannik & Smith Group, Inc. project #ODAS0003  
HIG #2071190 completed: 01/06/2023

Zone	Topographic Map Name	Publisher	Map Size	Base Map	Aerial Photo Topo Updates		
					Photo Year	Inspected	Revised
East	Cleveland South, OH	USGS	7½' x 7½'	2013	--	--	--
West	Lakewood, OH	USGS	7½' x 7½'	2013	--	--	--



2016



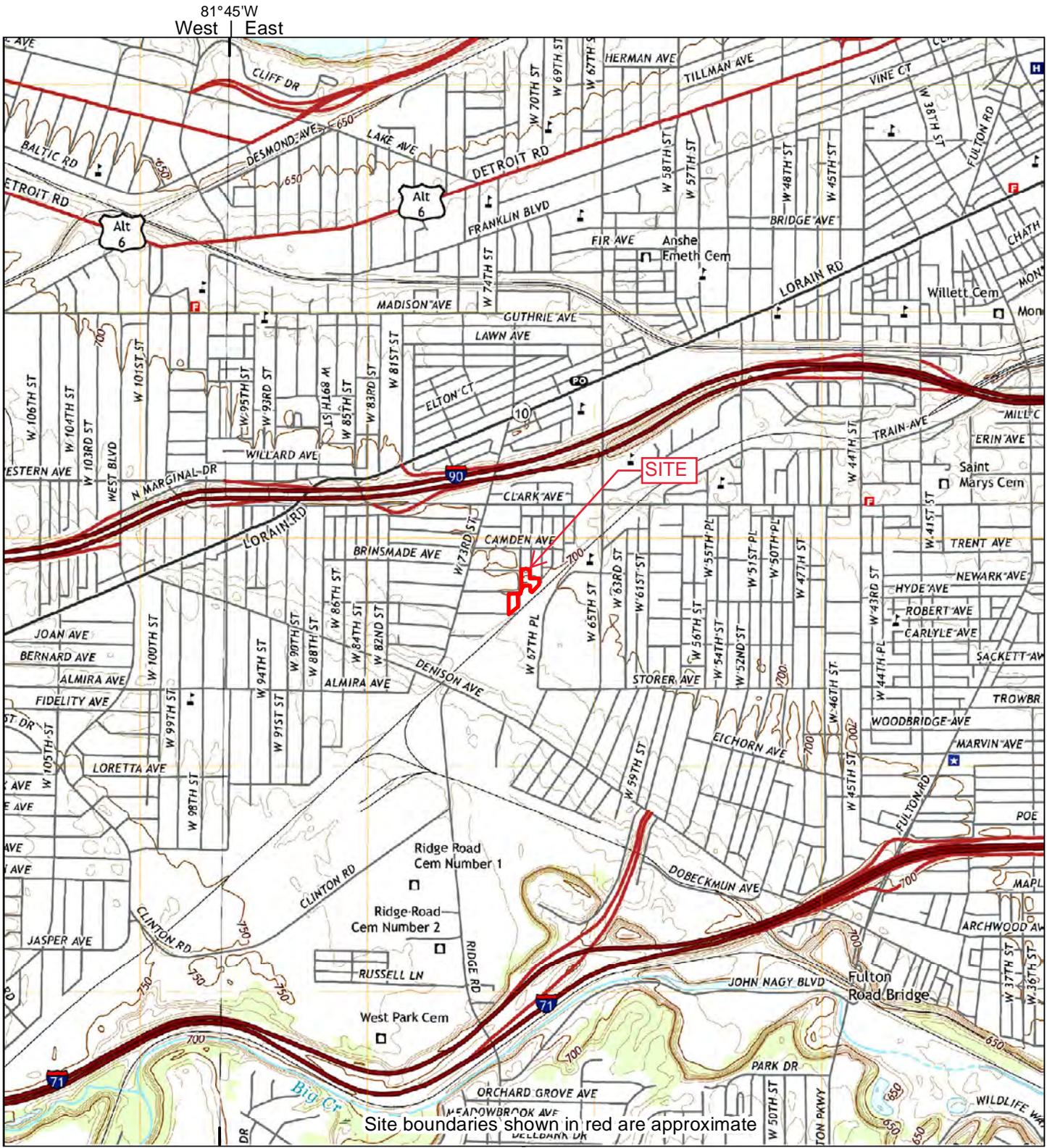
Site information:  
Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH 44102



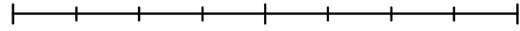
Unified maps show subdued modern topo features where corresponding maps of the same year were not published.

The Mannik & Smith Group, Inc. project #ODAS0003  
HIG #2071190 completed: 01/06/2023

						Aerial Photo Topo Updates		
Zone	Topographic Map Name	Publisher	Map Size	Base Map	Photo Year	Inspected	Revised	
East	Cleveland South, OH	USGS	7½' x 7½'	2016	--	--	--	
West	Lakewood, OH	USGS	7½' x 7½'	2016	--	--	--	



Site boundaries shown in red are approximate

2019	0	Distance in Miles	1	Site information: Hillson Nut Company 3203 W. 71st Street Cleveland, OH 44102	
	 1: 24,000 (1"=2,000') NAD 1983 UTM Zone 17N				
Unified maps show subdued modern topo features where corresponding maps of the same year were not published.				The Mannik & Smith Group, Inc. project #ODAS0003 HIG #2071190 completed: 01/06/2023	
Zone	Topographic Map Name	Publisher	Map Size	Base Map	Aerial Photo Topo Updates
East	Cleveland South, OH	USGS	7½' x 7½'	2019	Photo Year | Inspected | Revised
West	Lakewood, OH	USGS	7½' x 7½'	2019	-- | -- | --

AERIAL PHOTOGRAPHS





Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH



**1938**

HIG Project # 2071190  
Client Project # ODAS0003  
Approximate Scale 1: 6,000 (1"=500')  
[www.historicalinfo.com](http://www.historicalinfo.com)





Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH



**1951**

HIG Project # 2071190  
Client Project # ODAS0003  
Approximate Scale 1: 6,000 (1"=500')  
[www.historicalinfo.com](http://www.historicalinfo.com)





Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH



**1959**

HIG Project # 2071190

Client Project # ODAS0003

Approximate Scale 1: 6,000 (1"=500')

[www.historicalinfo.com](http://www.historicalinfo.com)





Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH



**1960**

HIG Project # 2071190  
Client Project # ODAS0003  
Approximate Scale 1: 6,000 (1"=500')  
[www.historicalinfo.com](http://www.historicalinfo.com)





Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH



**1969**

HIG Project # 2071190  
Client Project # ODAS0003  
Approximate Scale 1: 6,000 (1"=500')  
[www.historicalinfo.com](http://www.historicalinfo.com)





Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH



**1970**

HIG Project # 2071190

Client Project # ODAS0003

Approximate Scale 1: 6,000 (1"=500')

[www.historicalinfo.com](http://www.historicalinfo.com)





Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH



**1977**

HIG Project # 2071190

Client Project # ODAS0003

Approximate Scale 1: 6,000 (1"=500')

[www.historicalinfo.com](http://www.historicalinfo.com)





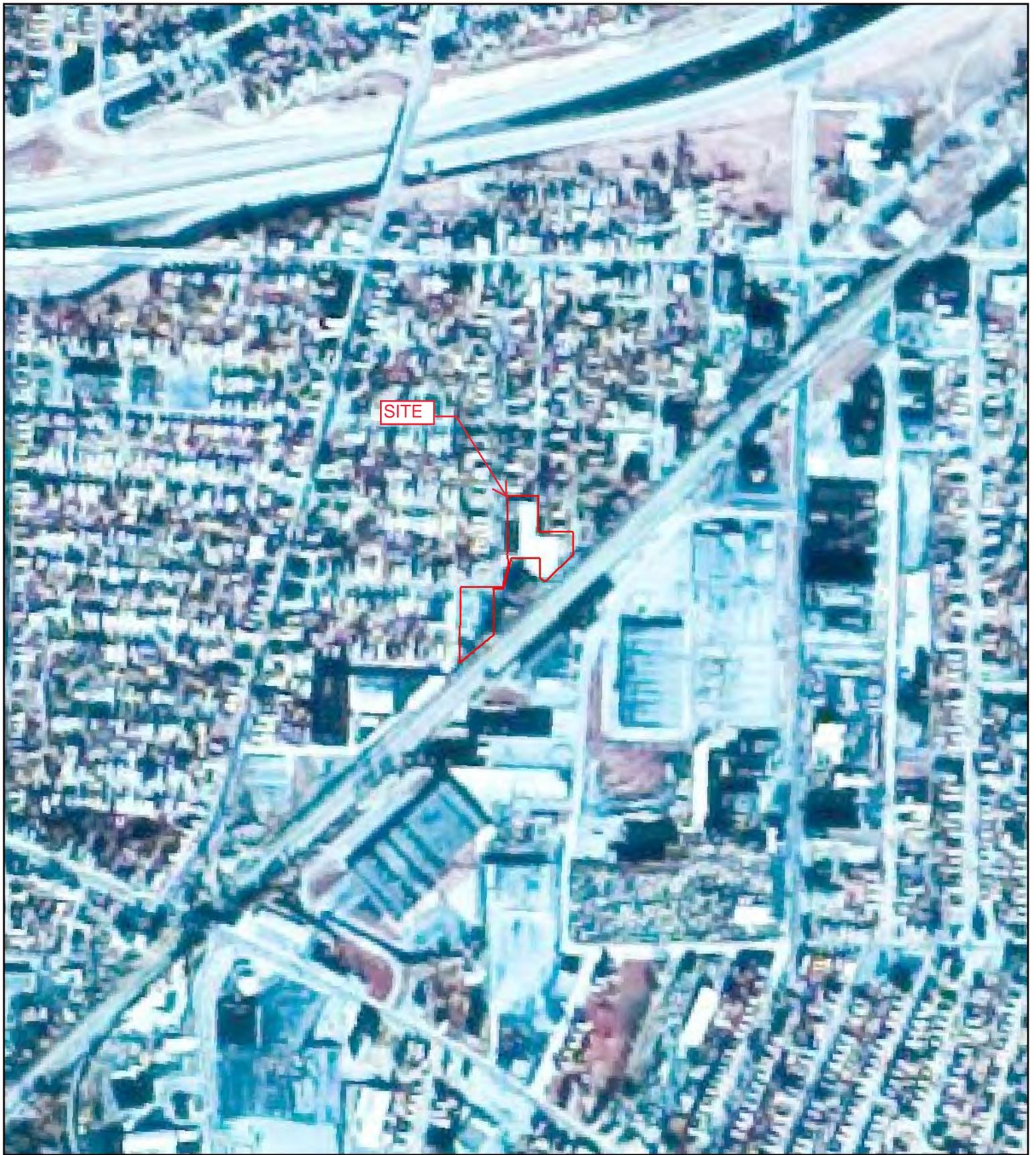
Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH



**1982**

HIG Project # 2071190  
Client Project # ODAS0003  
Approximate Scale 1: 6,000 (1"=500')  
[www.historicalinfo.com](http://www.historicalinfo.com)





Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH



**1991**

HIG Project # 2071190  
Client Project # ODAS0003  
Approximate Scale 1: 6,000 (1"=500')  
[www.historicalinfo.com](http://www.historicalinfo.com)





Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH



**1994**

HIG Project # 2071190  
Client Project # ODAS0003  
Approximate Scale 1: 6,000 (1"=500')  
[www.historicalinfo.com](http://www.historicalinfo.com)





SITE

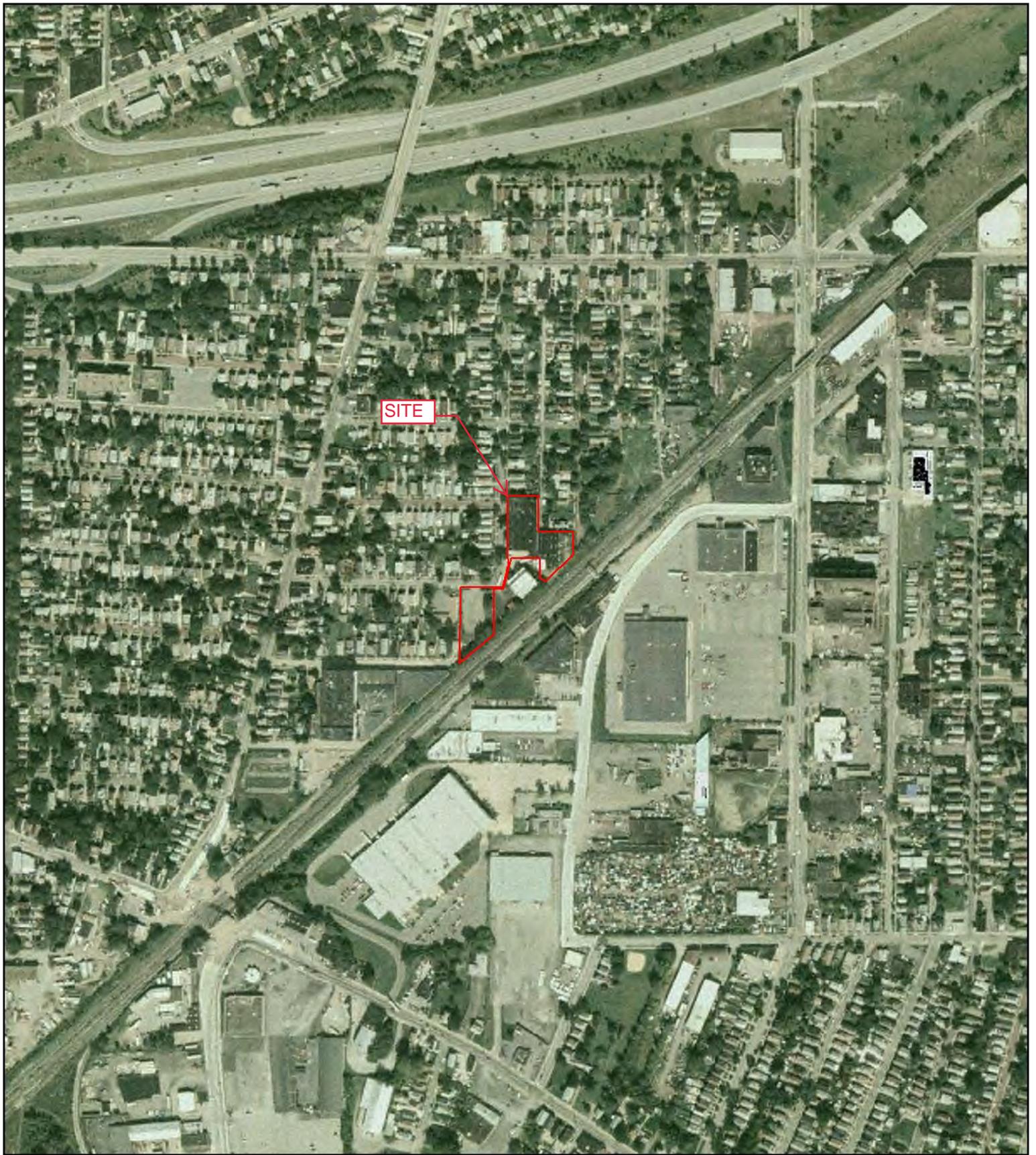
Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH



**2000**

HIG Project # 2071190  
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Approximate Scale 1: 6,000 (1"=500')  
[www.historicalinfo.com](http://www.historicalinfo.com)





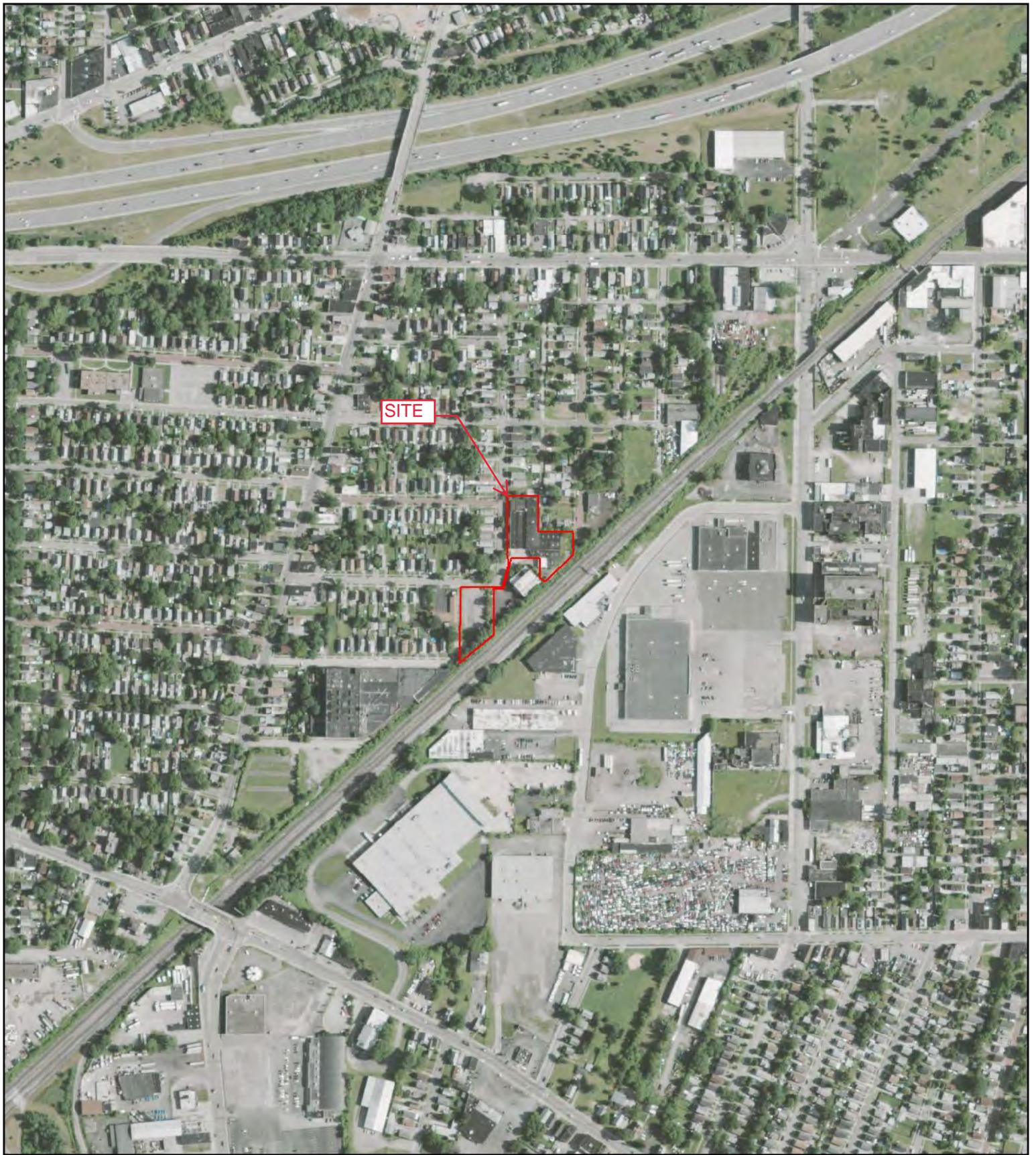
Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH



**2004**

HIG Project # 2071190  
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[www.historicalinfo.com](http://www.historicalinfo.com)





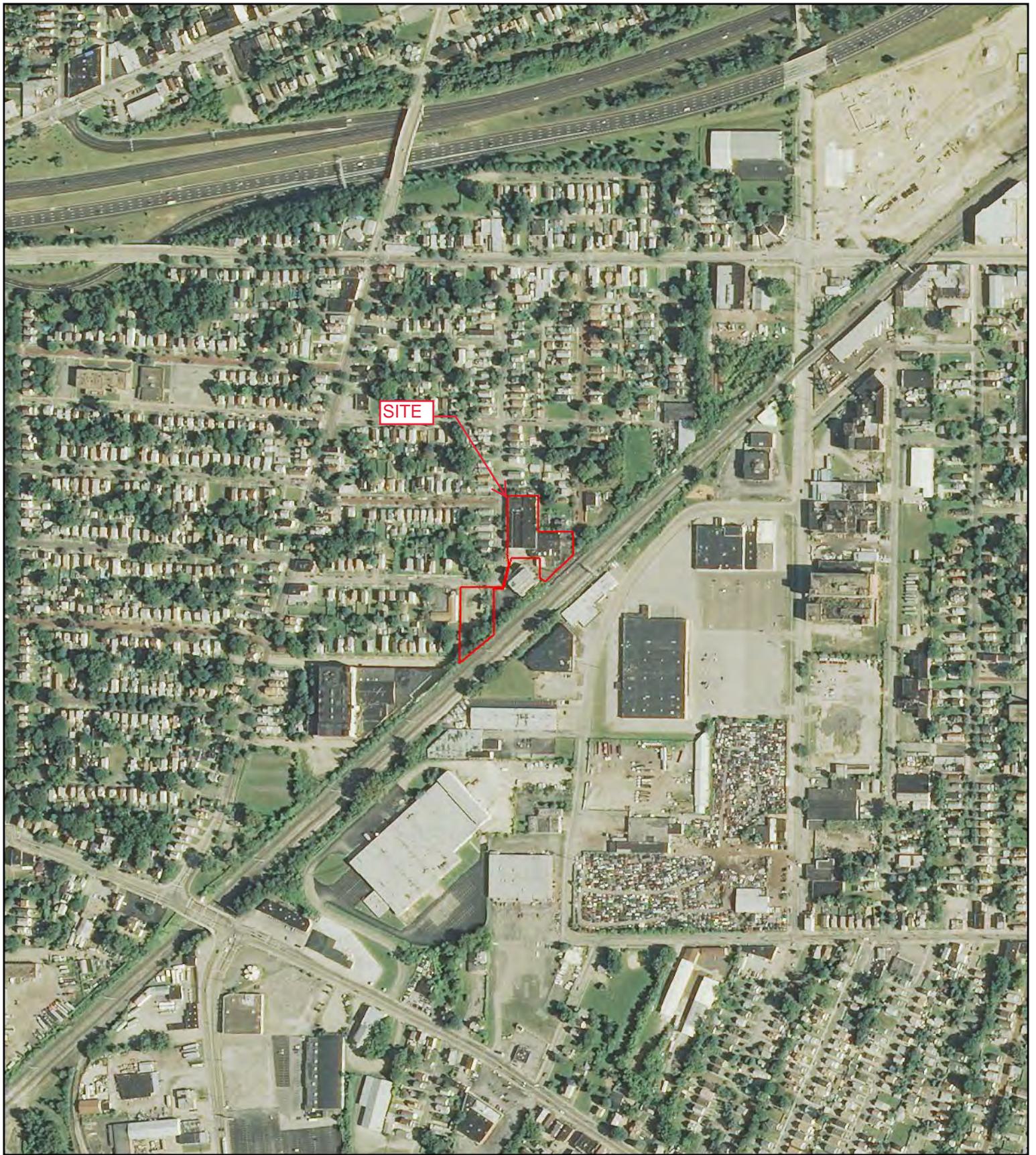
Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH



**2009**

HIG Project # 2071190  
Client Project # ODAS0003  
Approximate Scale 1: 6,000 (1"=500')  
[www.historicalinfo.com](http://www.historicalinfo.com)





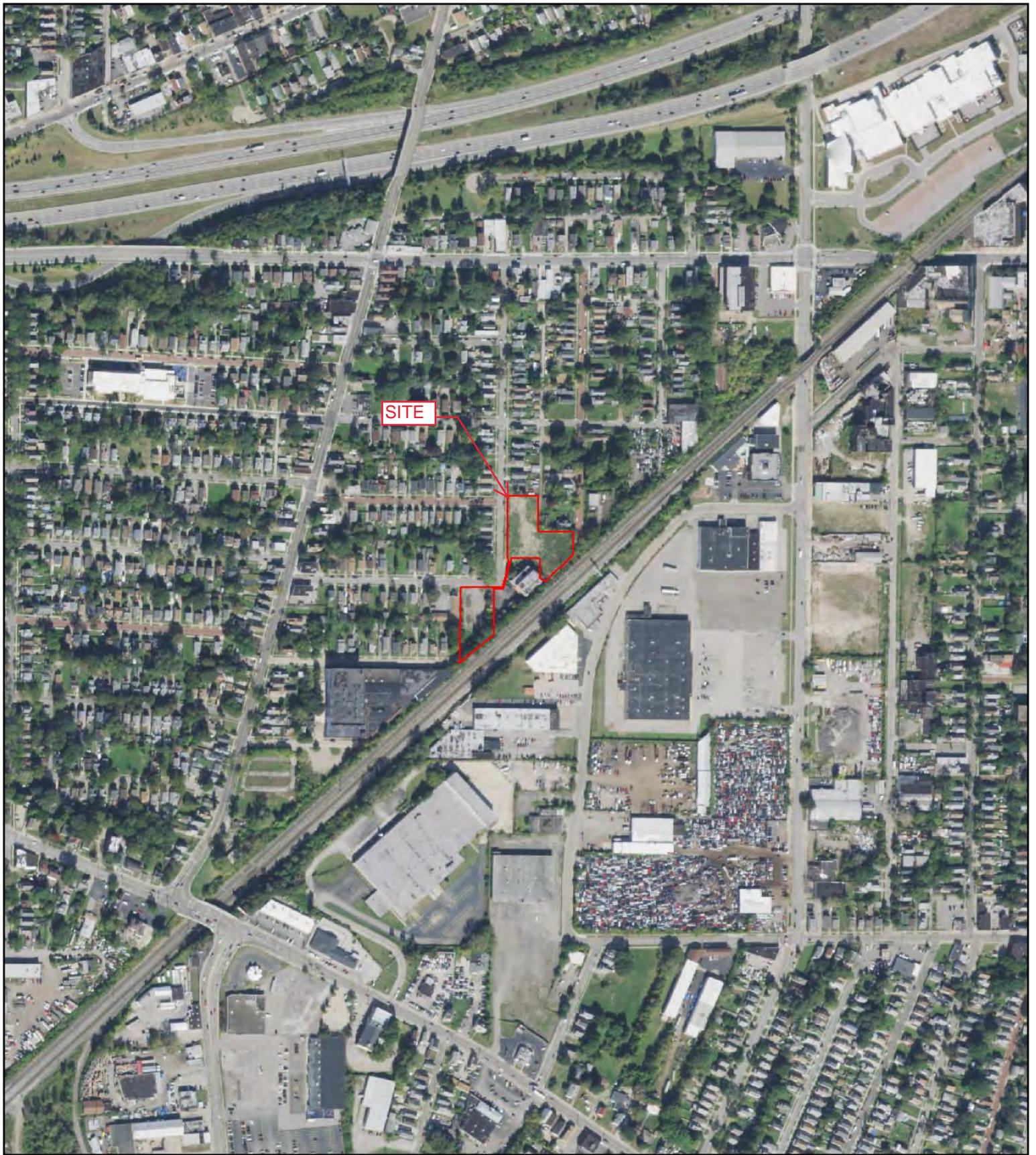
Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH



**2013**

HIG Project # 2071190  
Client Project # ODAS0003  
Approximate Scale 1: 6,000 (1"=500')  
[www.historicalinfo.com](http://www.historicalinfo.com)





Hillson Nut Company  
3203 W. 71st Street  
Cleveland, OH



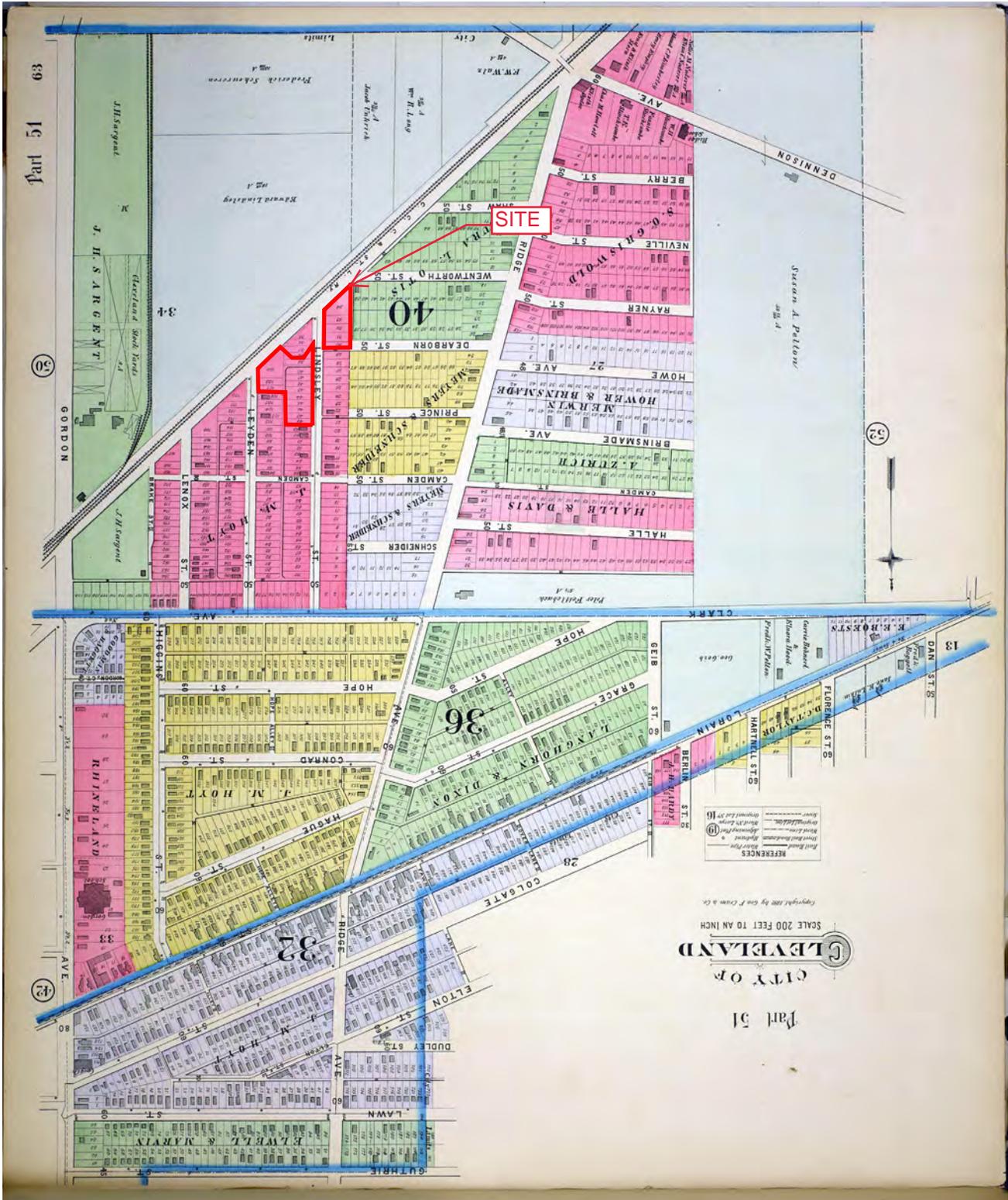
**2019**

HIG Project # 2071190  
Client Project # ODAS0003  
Approximate Scale 1: 6,000 (1"=500')  
[www.historicalinfo.com](http://www.historicalinfo.com)



SANBORN FIRE INSURANCE MAPS





Map Type: Real Estate Atlas  
 Publisher: Geo. F. Cram & Co.  
 Publication Name: Cuyahoga County, OH  
 Base Map Date: 1892  
 Revised Date:  
 Republished Date:  
 Sheet Number: 63

1892

Requested by: The Mannik & Smith Group, Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)





Copyright secured 1898 by J. H. Munster & Co.

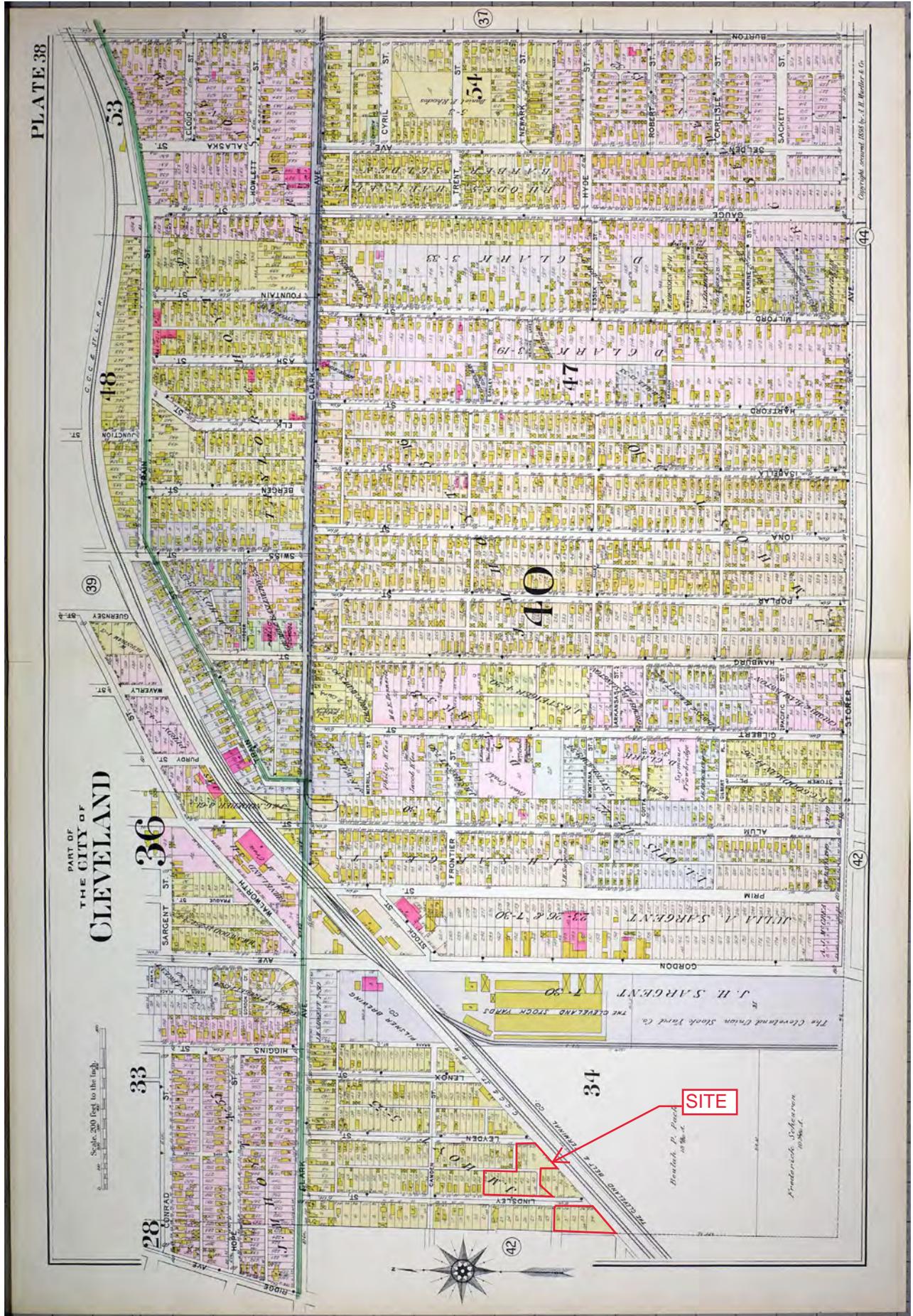
Map Type: Real Estate Atlas  
 Publisher: G. M. Hopkins  
 Publication Name: Cleveland, OH  
 Base Map Date: 1898  
 Revised Date:  
 Republished Date:  
 Sheet Number: 43

1898

Requested by: The Mannik & Smith Group, Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



PART OF THE CITY OF CLEVELAND



Map Type: Real Estate Atlas  
 Publisher: G. M. Hopkins  
 Publication Name: Cleveland, OH  
 Base Map Date: 1898  
 Revised Date:  
 Republished Date:  
 Sheet Number: 38

1898

Requested by: The Mannik & Smith Group, Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



# CITY OF CLEVELAND OHIO.

1898.

SCALE OF FEET.  
 0 500 1000 2000 3000 4000 5000 5000-1 MILE.



Map Type: Real Estate Atlas  
 Publisher: A. H. Mueller & Co.  
 Publication Name: Cuyahoga County, OH  
 Base Map Date: 1898  
 Revised Date:  
 Republished Date:  
 Sheet Number: 1L

**1898**

Requested by: The Mannik & Smith Group, Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



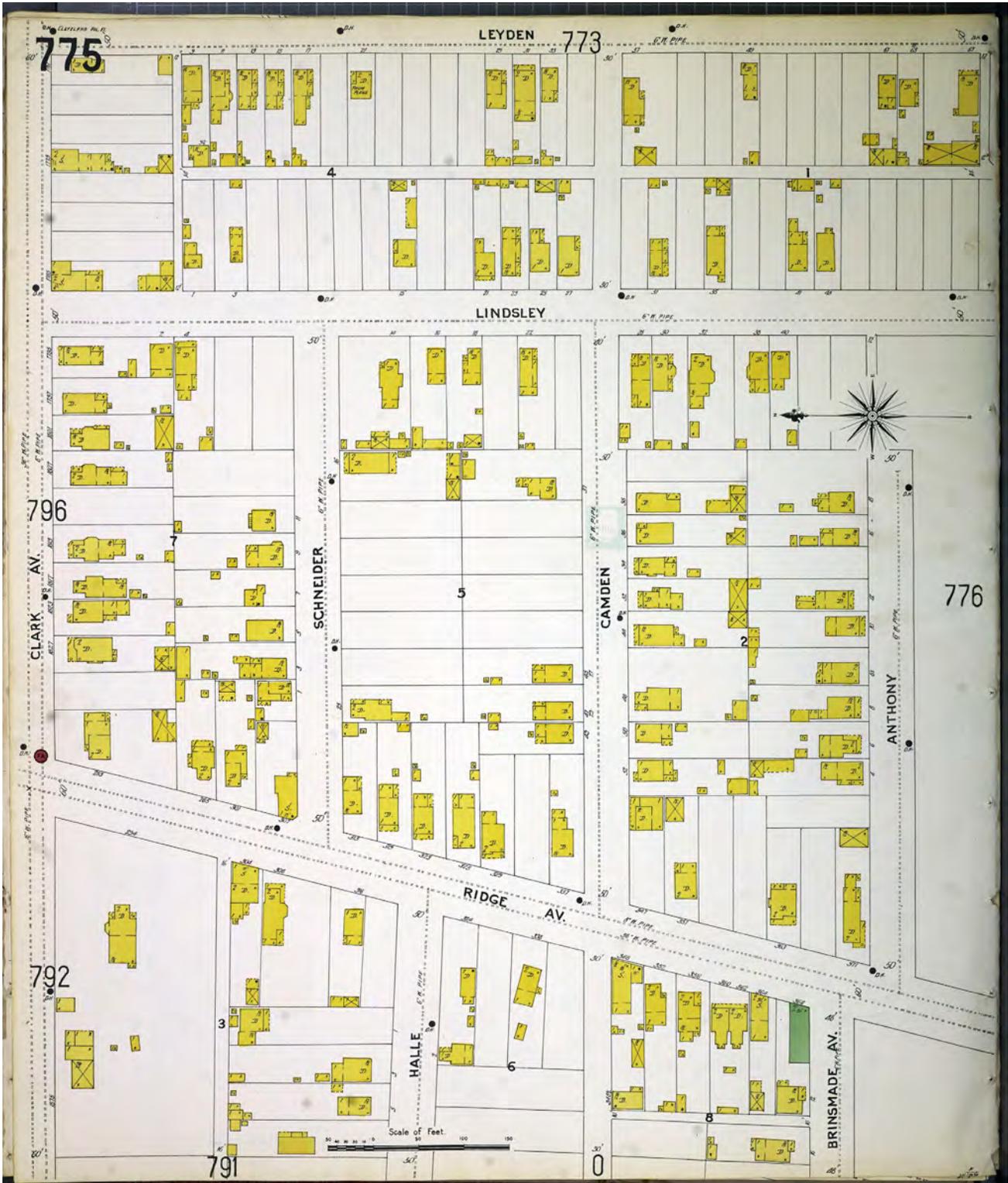


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 6  
 Base Map Date: 1903  
 Revised Date:  
 Republished Date:  
 Sheet Number: 776

**1903**

Requested by: The Mannik & Smith Group,  
 Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)





Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 6  
 Base Map Date: 1903  
 Revised Date:  
 Republished Date:  
 Sheet Number: 775

**1903**

Requested by: The Mannik & Smith Group, Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)





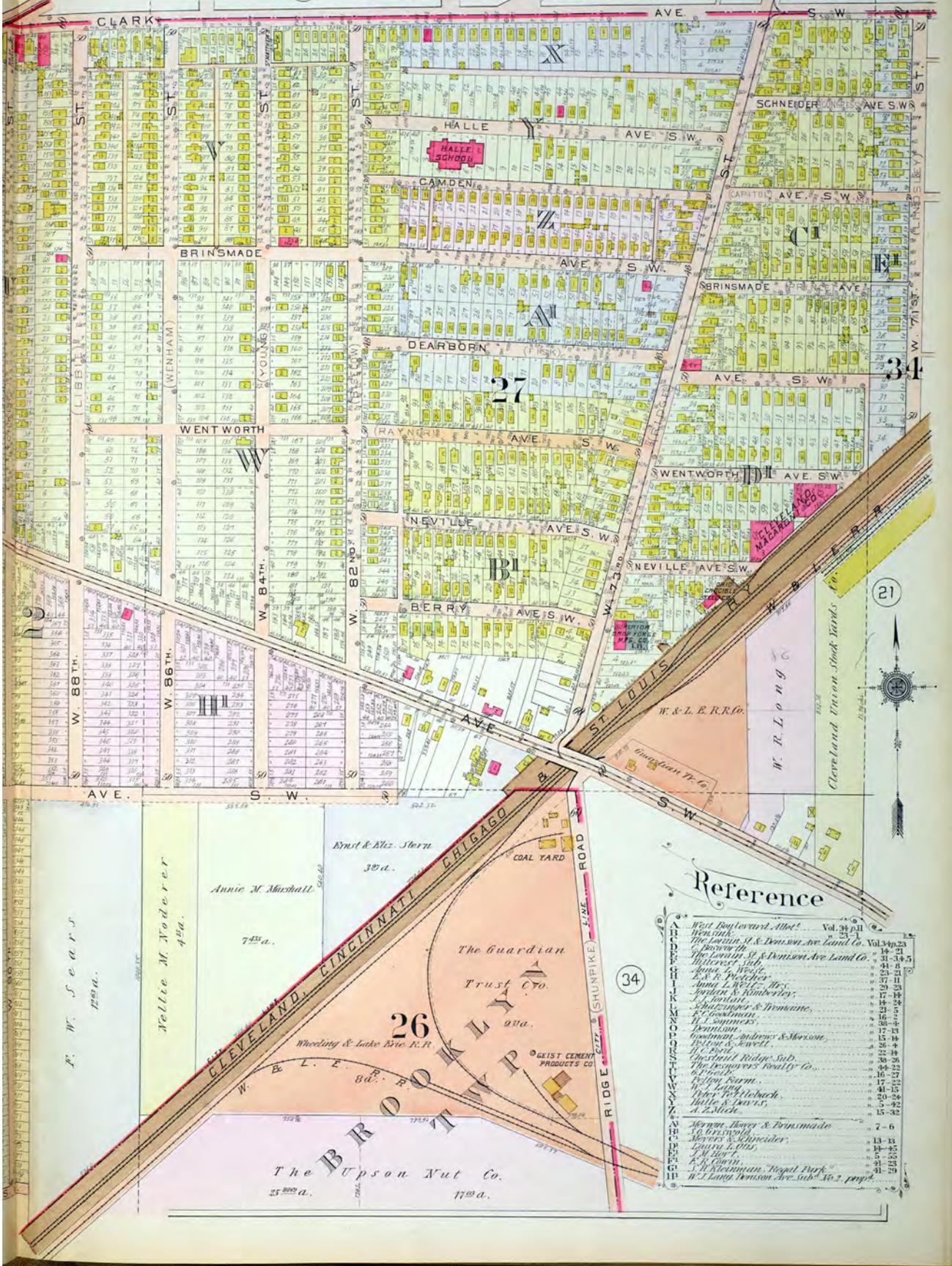


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 6  
 Base Map Date: 1903  
 Revised Date:  
 Republished Date:  
 Sheet Number: 773

**1903**

Requested by: The Mannik & Smith Group,  
 Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



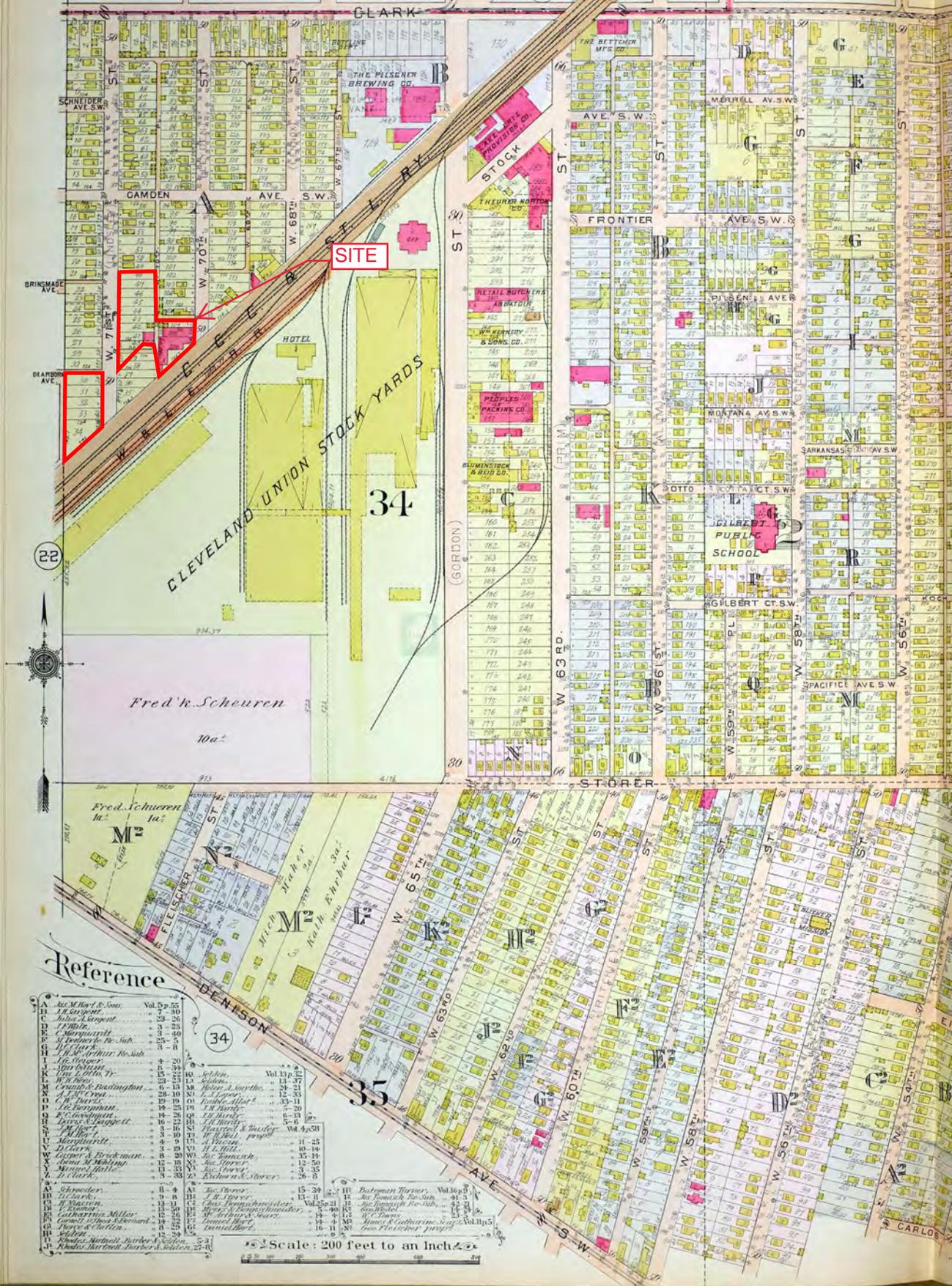


Map Type: Real Estate Atlas  
 Publisher: G. M. Hopkins  
 Publication Name: Cleveland, OH Vol. 2  
 Base Map Date: 1912  
 Revised Date:  
 Republished Date:  
 Sheet Number: 22R

**1912**

Requested by: The Mannik & Smith Group, Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)





Reference

A	See M. B. & S. Co.	Vol. 5 p. 25
B	J. E. Simpson	7-30
C	Julia A. Sargent	23-26
D	F. H. Olin	23-33
E	C. Merquardt	3-40
F	DeWolfe Re. Sub.	3-40
G	W. H. P. Co.	3-40
H	J. S. Arthur, Re. Sub.	3-40
I	J. G. Steyer	4-20
J	W. H. P. Co.	4-20
K	W. H. P. Co.	15-22
L	W. H. P. Co.	15-22
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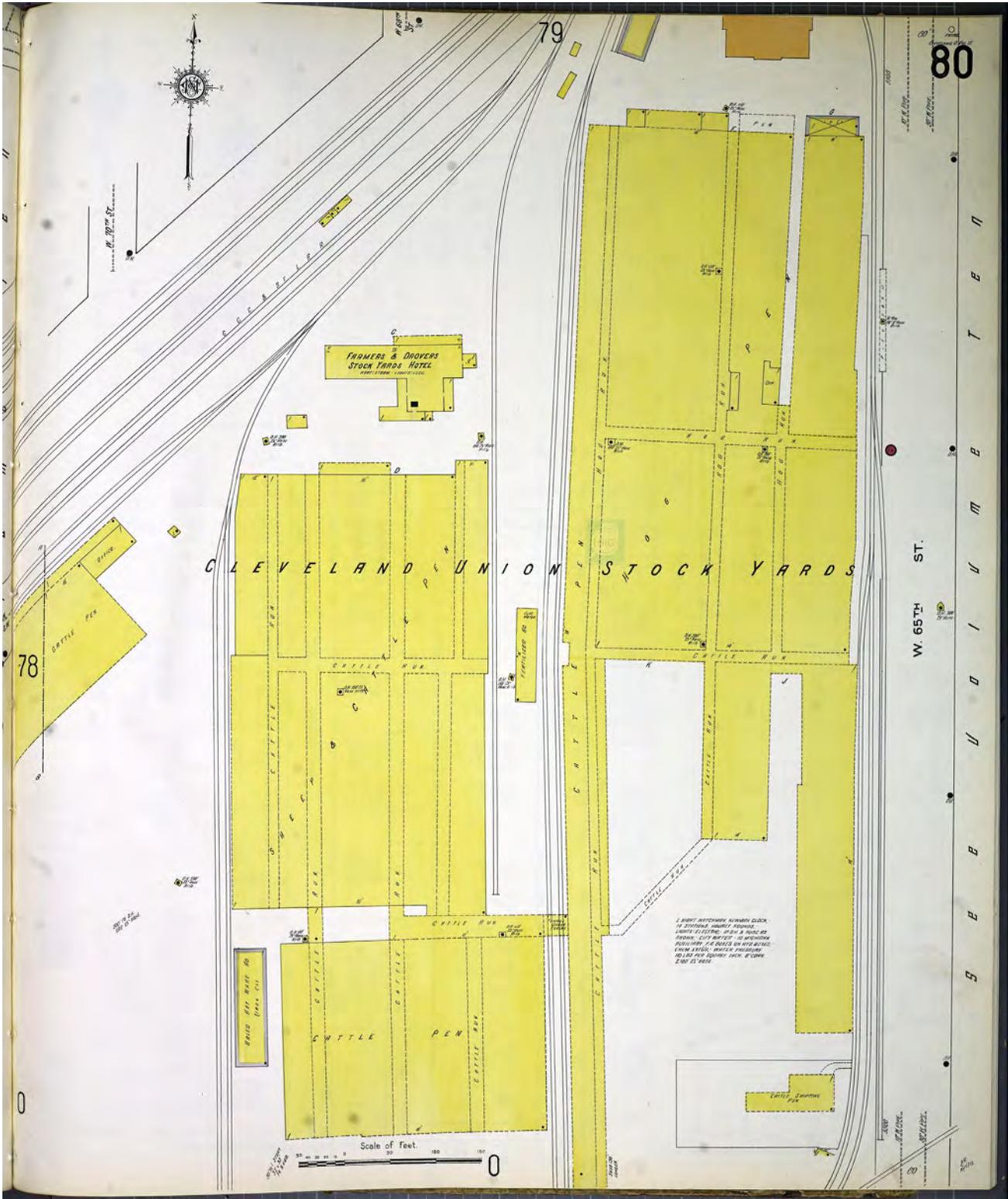
Scale: 200 feet to an inch

Map Type: Real Estate Atlas  
 Publisher: G. M. Hopkins  
 Publication Name: Cleveland, OH Vol. 2  
 Base Map Date: 1912  
 Revised Date:  
 Republished Date:  
 Sheet Number: 21L

1912

Requested by: The Mannik & Smith Group, Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



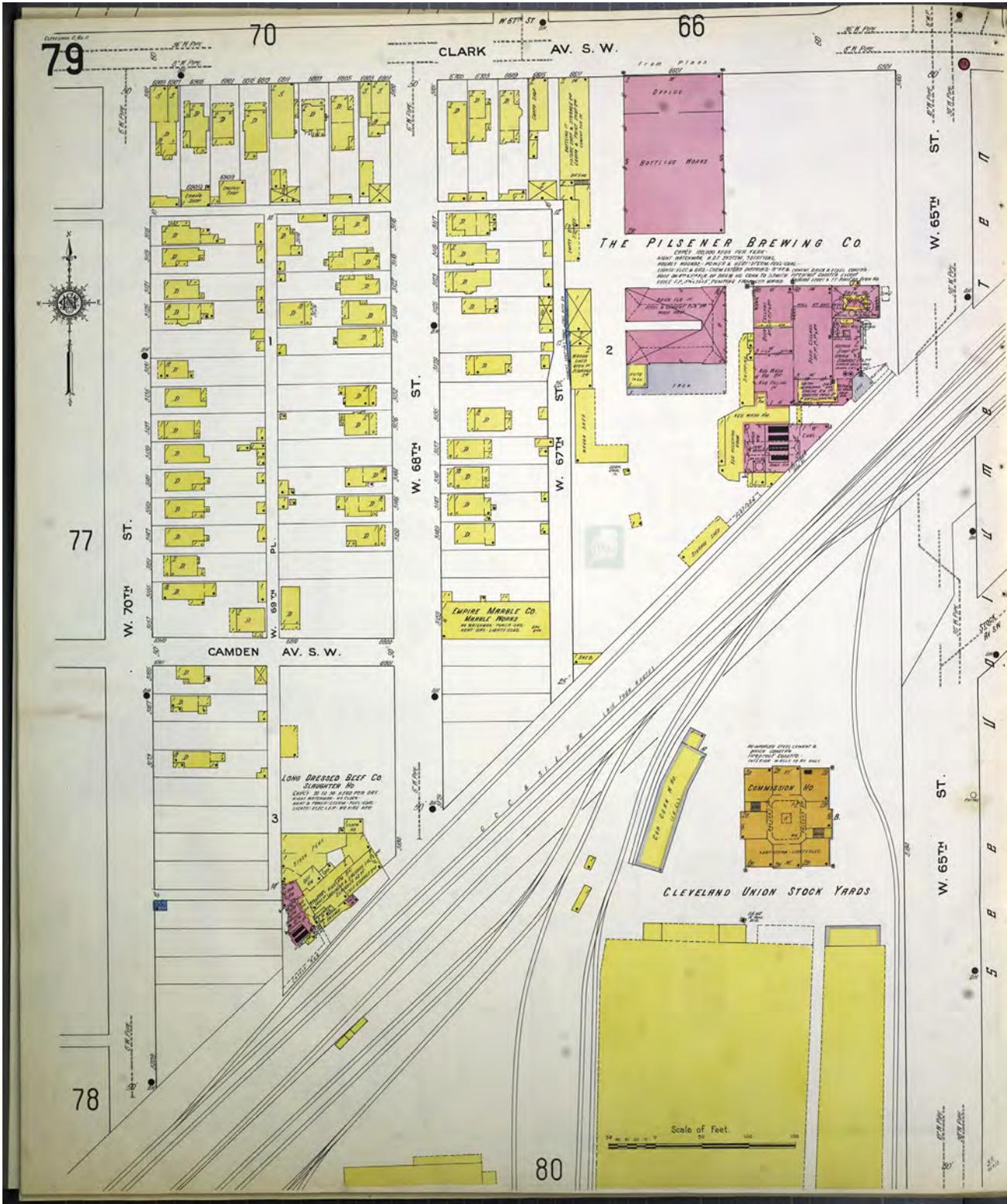


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 11  
 Base Map Date: 1913  
 Revised Date:  
 Republished Date:  
 Sheet Number: 80

**1913**

Requested by: The Mannik & Smith Group,  
 Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



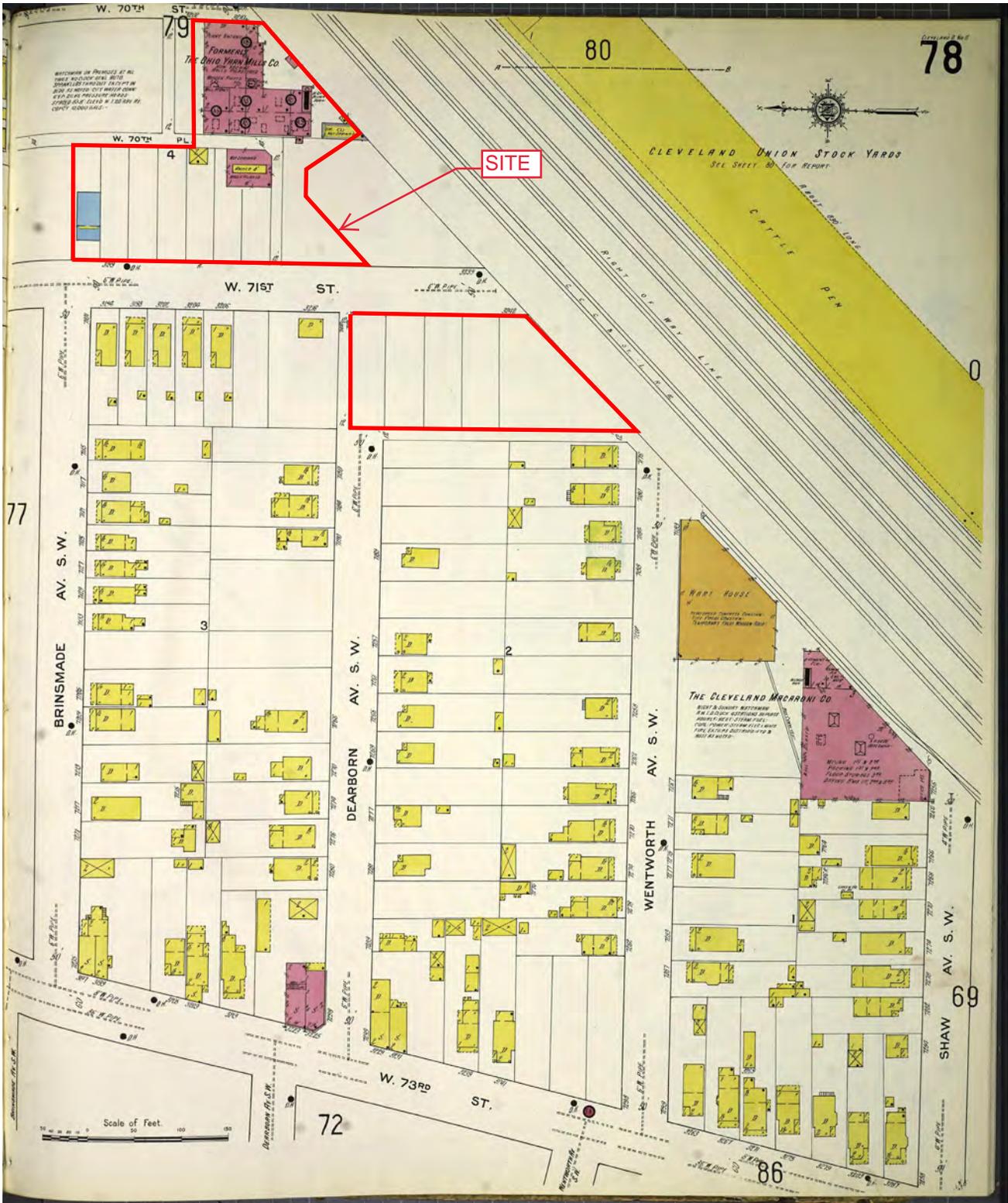


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 11  
 Base Map Date: 1913  
 Revised Date:  
 Republished Date:  
 Sheet Number: 79

**1913**

Requested by: The Mannik & Smith Group, Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



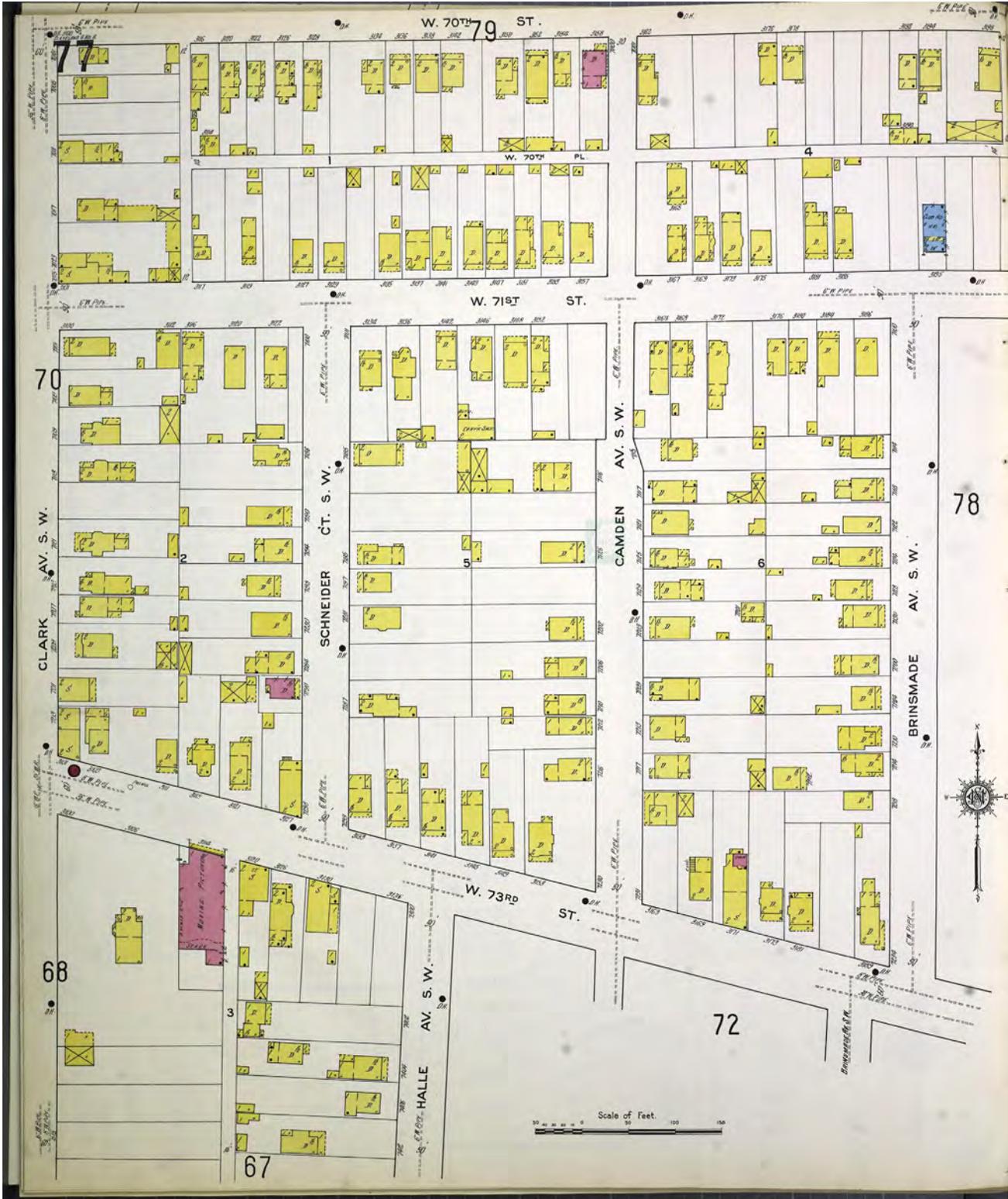


Map Type: Fire Insurance  
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 Publication Name: Cleveland, OH Vol. 11  
 Base Map Date: 1913  
 Revised Date:  
 Republished Date:  
 Sheet Number: 78

**1913**

Requested by: The Mannik & Smith Group,  
 Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



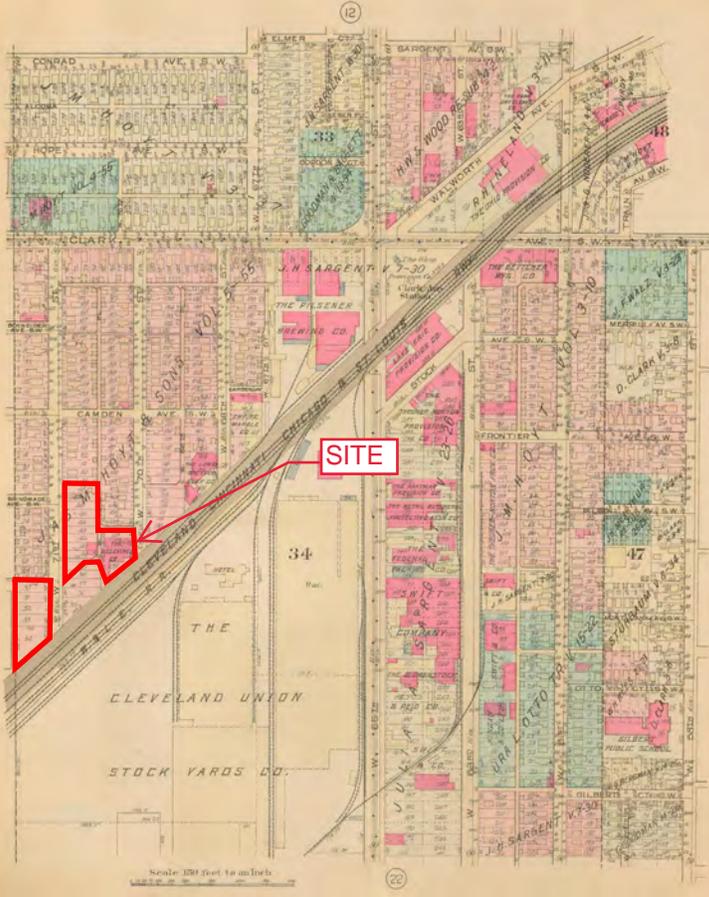


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 11  
 Base Map Date: 1913  
 Revised Date:  
 Republished Date:  
 Sheet Number: 77

**1913**

Requested by: The Mannik & Smith Group,  
 Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)





Map Type: Real Estate Atlas  
 Publisher: G. M. Hopkins  
 Publication Name: Cleveland, OH Vol. 2  
 Base Map Date: 1922  
 Revised Date: December 1924  
 Republished Date:  
 Sheet Number: 17r

**1924**

Requested by: The Mannik & Smith Group,  
 Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



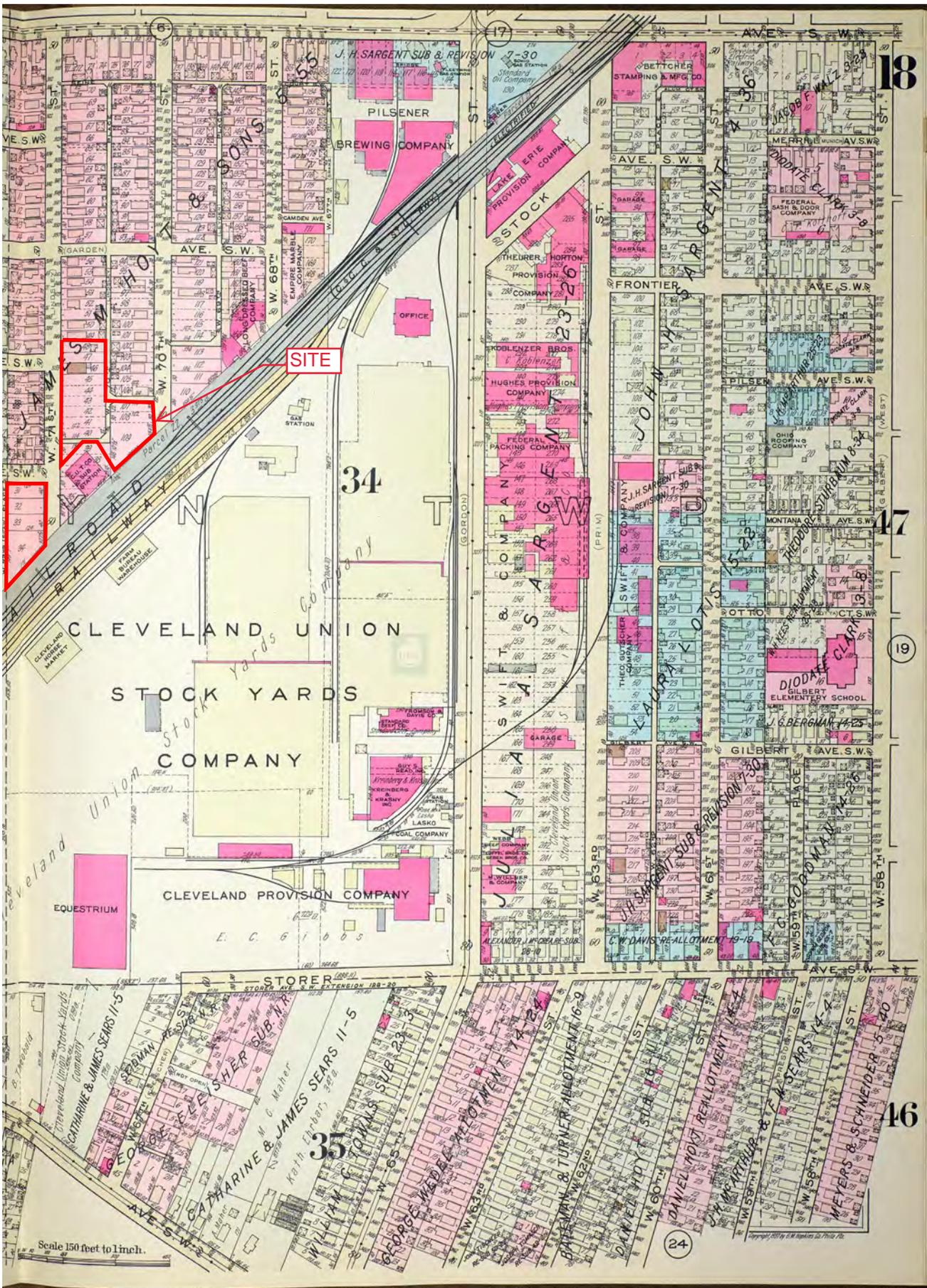


Map Type: Real Estate Atlas  
 Publisher: G. M. Hopkins  
 Publication Name: Cleveland, OH Vol. 2  
 Base Map Date: 1922  
 Revised Date: December 1924  
 Republished Date:  
 Sheet Number: 17

1924

Requested by: The Mannik & Smith Group,  
 Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



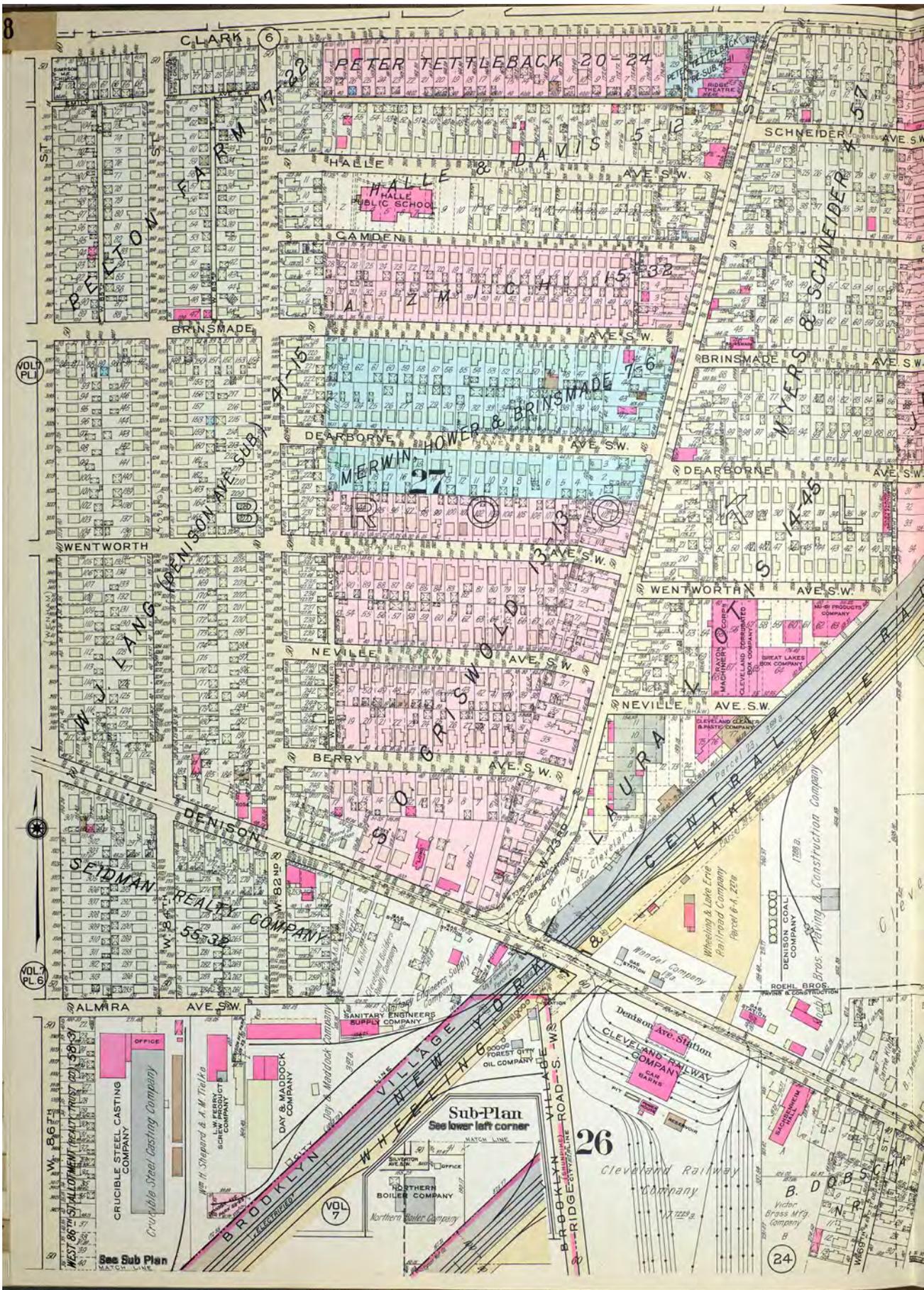


Map Type: Real Estate Atlas  
 Publisher: G. M. Hopkins  
 Publication Name: Cleveland, OH Vol. 2  
 Base Map Date: 1937  
 Revised Date:  
 Republished Date:  
 Sheet Number: 18R

**1937**

Requested by: The Mannik & Smith Group, Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



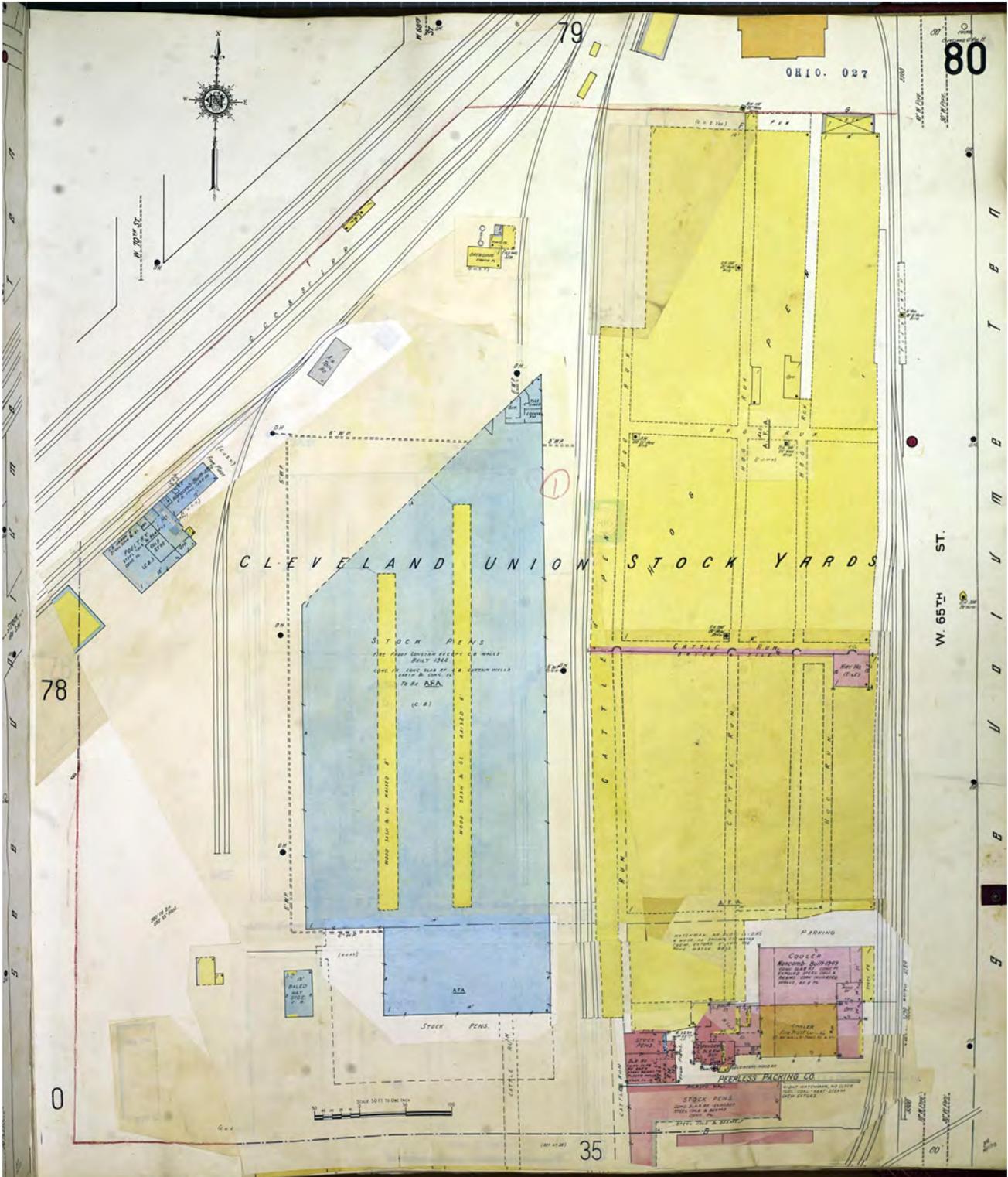


Map Type: Real Estate Atlas  
 Publisher: G. M. Hopkins  
 Publication Name: Cleveland, OH Vol. 2  
 Base Map Date: 1937  
 Revised Date:  
 Republished Date:  
 Sheet Number: 18L

**1937**

Requested by: The Mannik & Smith Group, Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



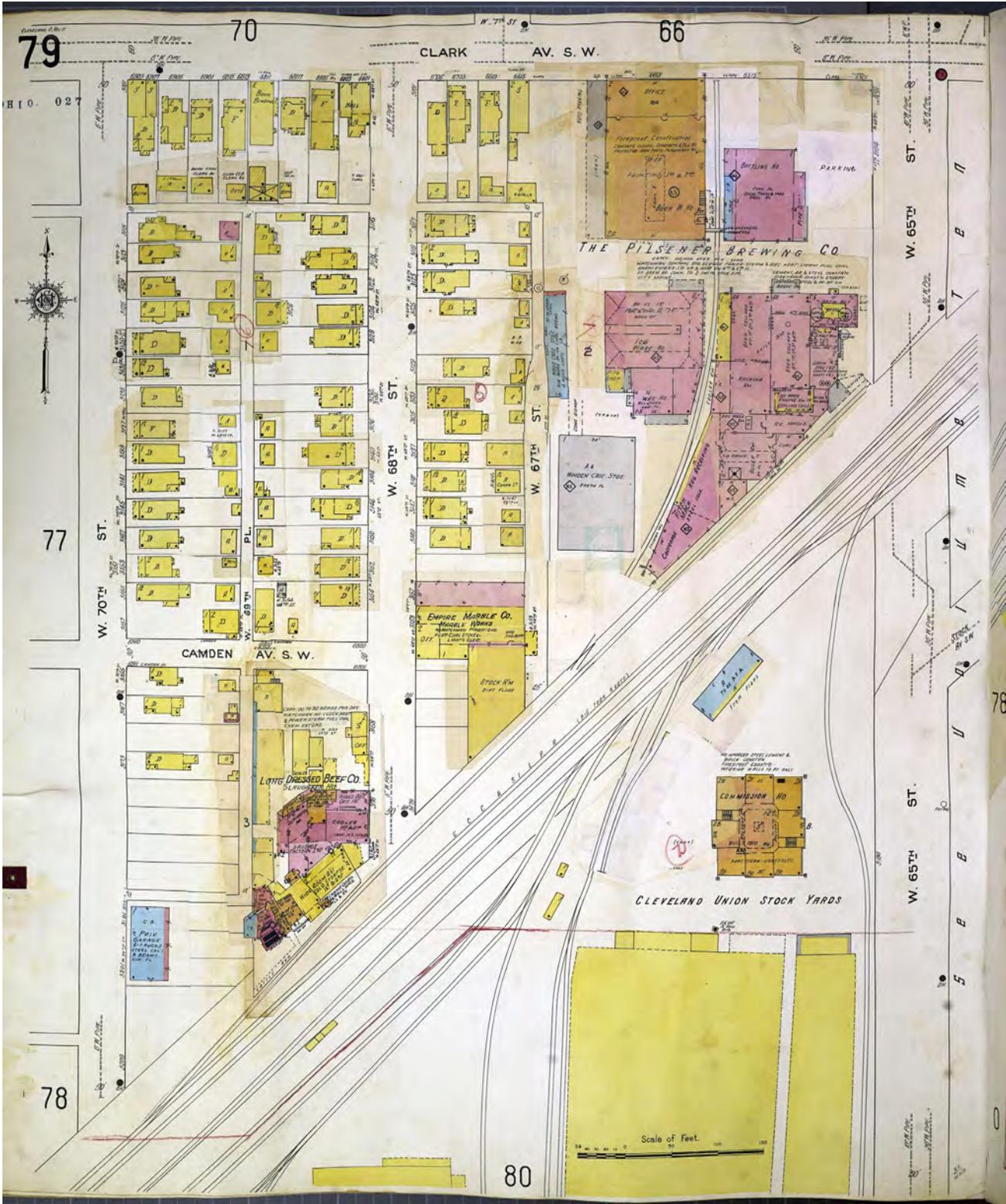


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 11  
 Base Map Date: 1913  
 Revised Date: November 1950  
 Republished Date:  
 Sheet Number: 80

**1950**

Requested by: The Mannik & Smith Group,  
 Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



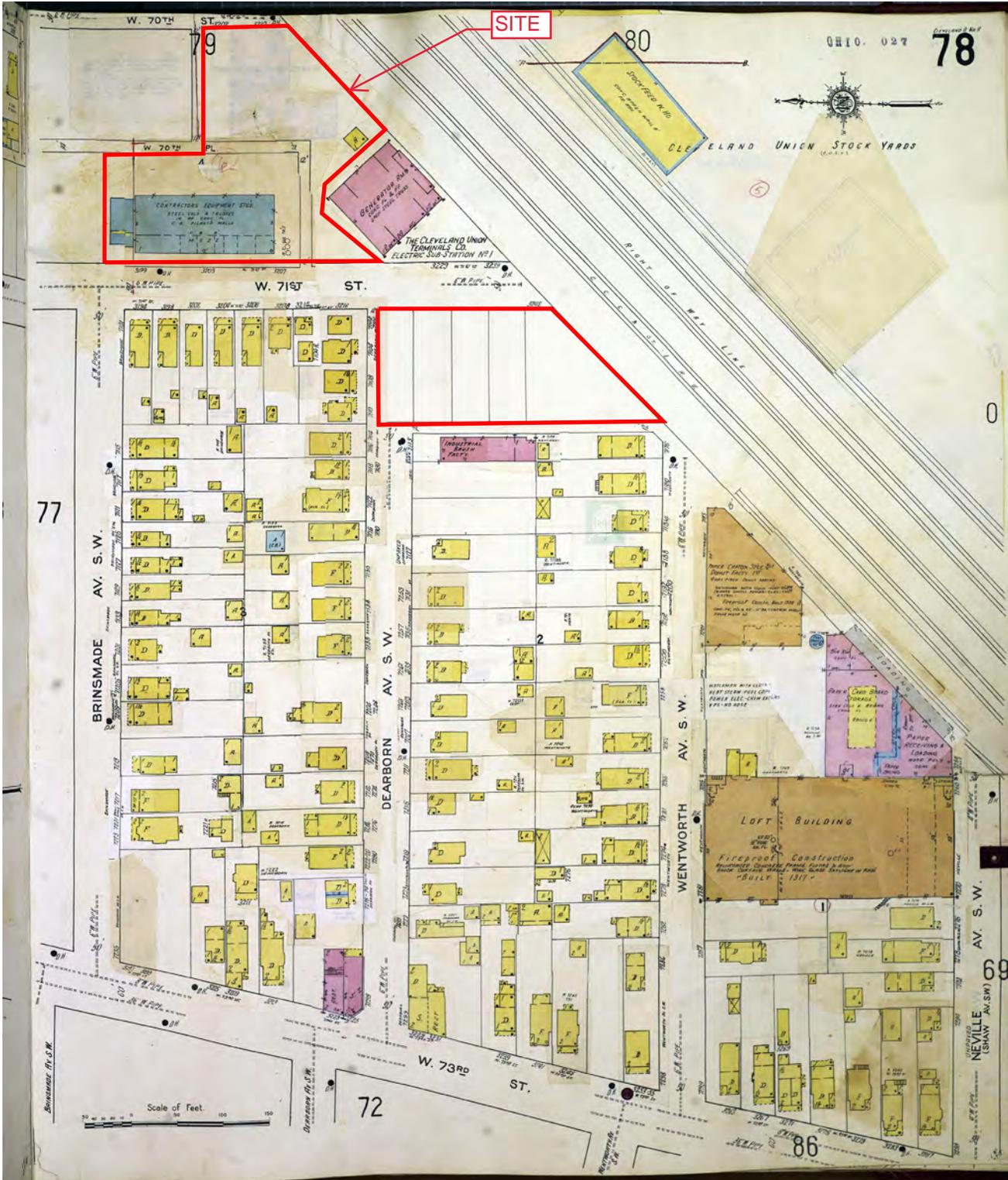


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 11  
 Base Map Date: 1913  
 Revised Date: November 1950  
 Republished Date:  
 Sheet Number: 79

**1950**

Requested by: The Mannik & Smith Group,  
 Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)





Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 11  
 Base Map Date: 1913  
 Revised Date: November 1950  
 Republished Date:  
 Sheet Number: 78

**1950**

Requested by: The Mannik & Smith Group,  
 Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



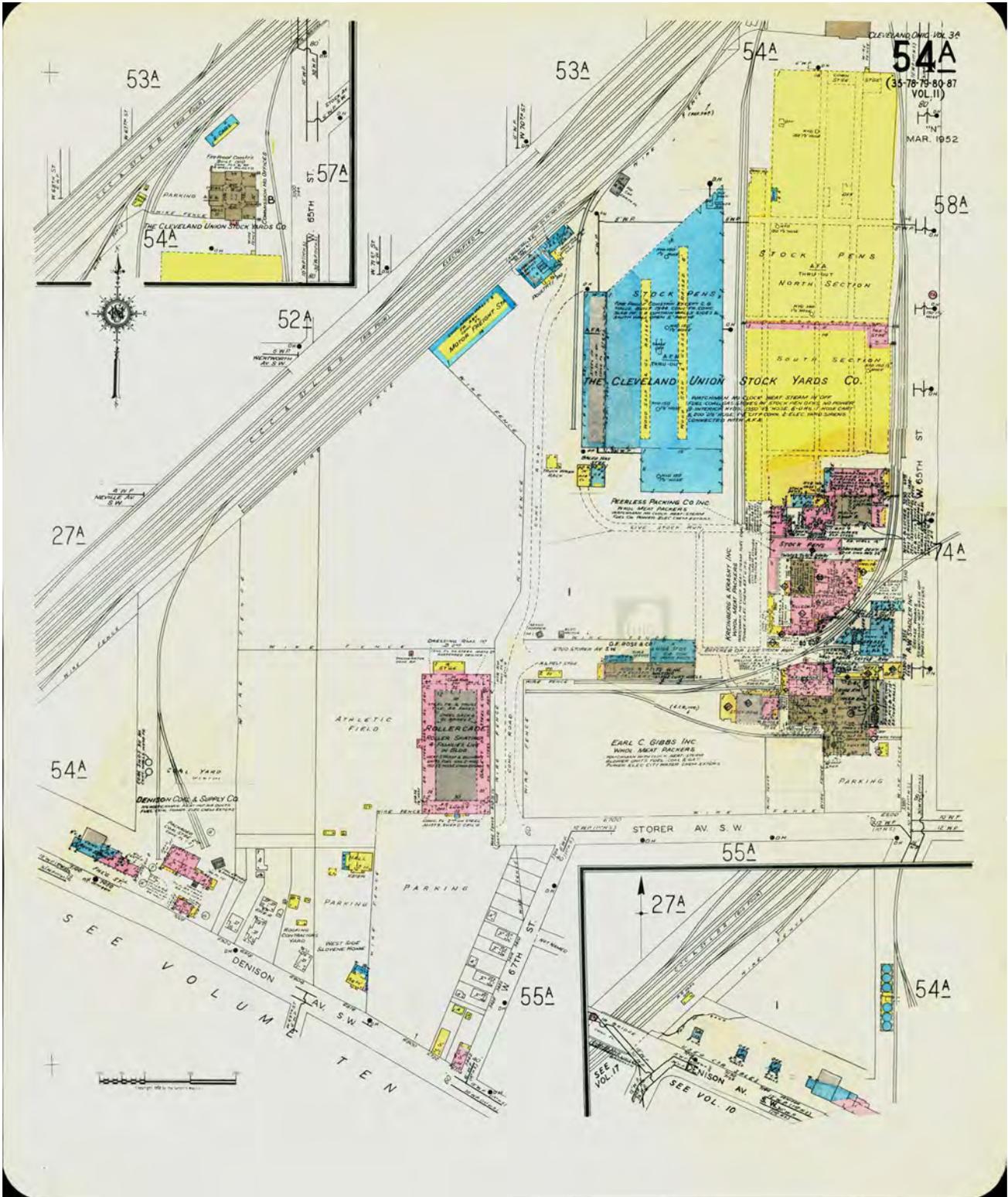


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 11  
 Base Map Date: 1913  
 Revised Date: November 1950  
 Republished Date:  
 Sheet Number: 77

**1950**

Requested by: The Mannik & Smith Group,  
 Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



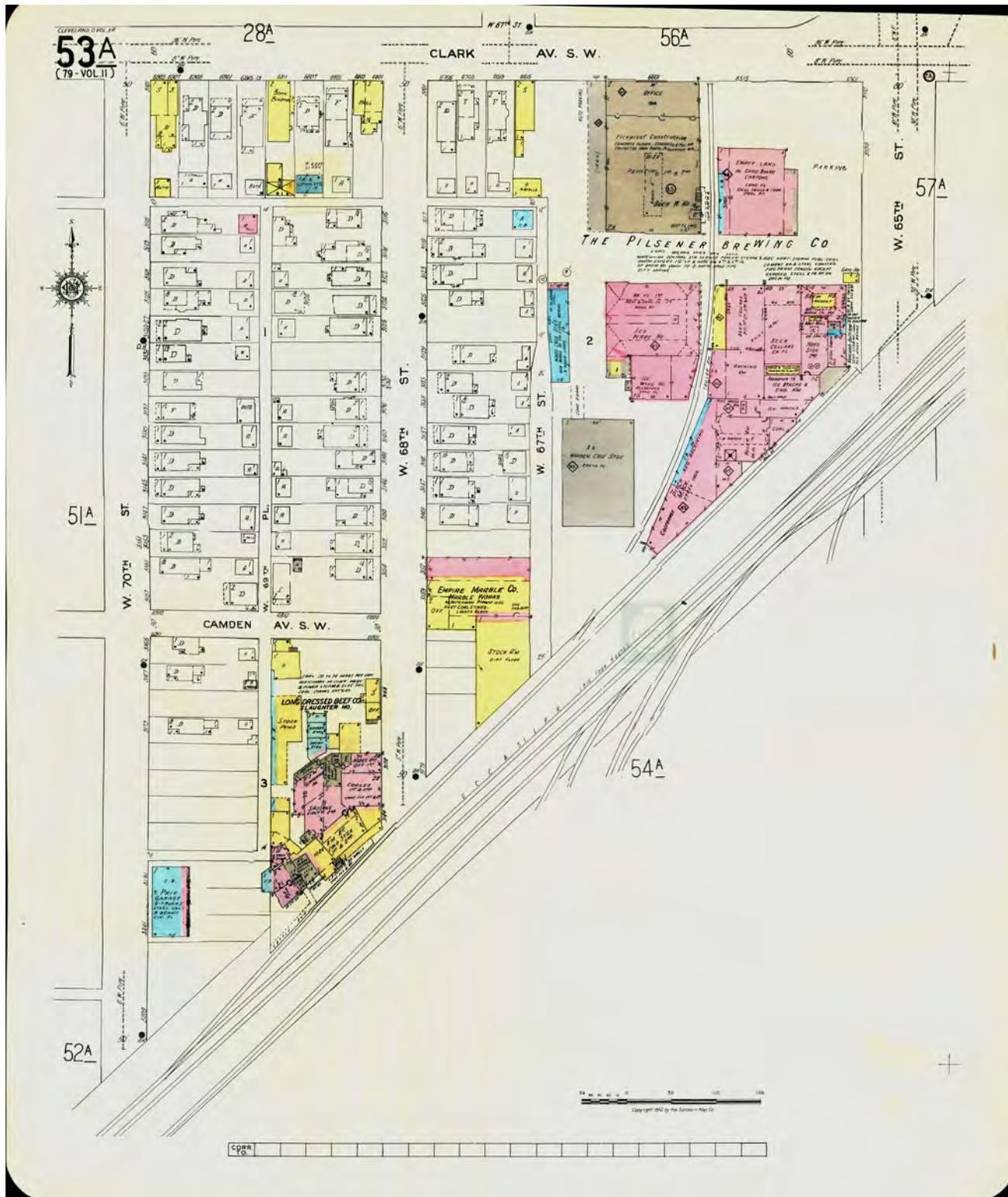


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 3A  
 Base Map Date: 1912  
 Revised Date: January 1957  
 Republished Date: 1952  
 Sheet Number: 54A

**1952**

Requested by: The Mannik & Smith Group, Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



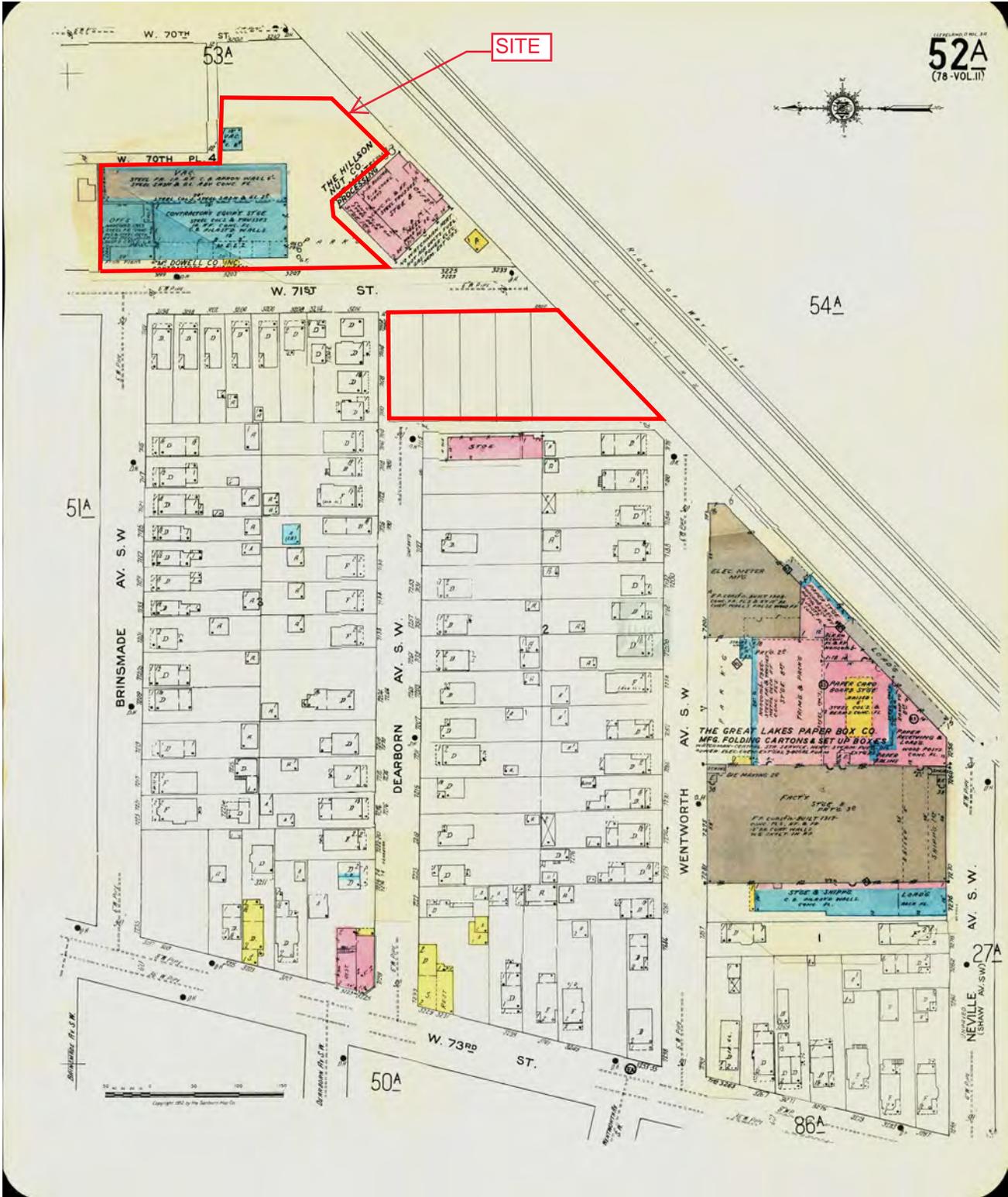


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 3A  
 Base Map Date: 1912  
 Revised Date: January 1957  
 Republished Date: 1952  
 Sheet Number: 53A

**1952**

Requested by: The Mannik & Smith Group, Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



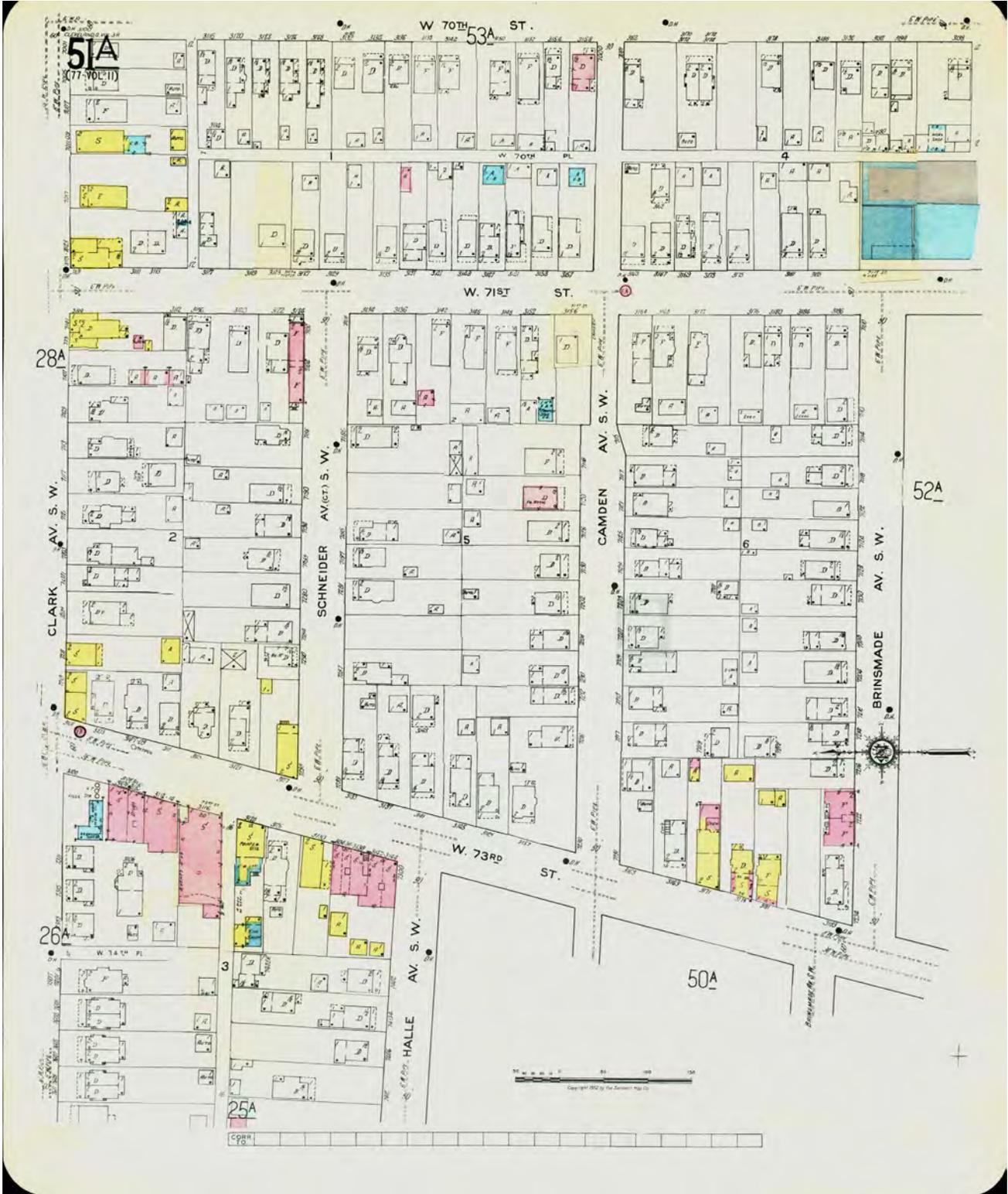


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 3A  
 Base Map Date: 1912  
 Revised Date: January 1957  
 Republished Date: 1952  
 Sheet Number: 52A

**1952**

Requested by: The Mannik & Smith Group, Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



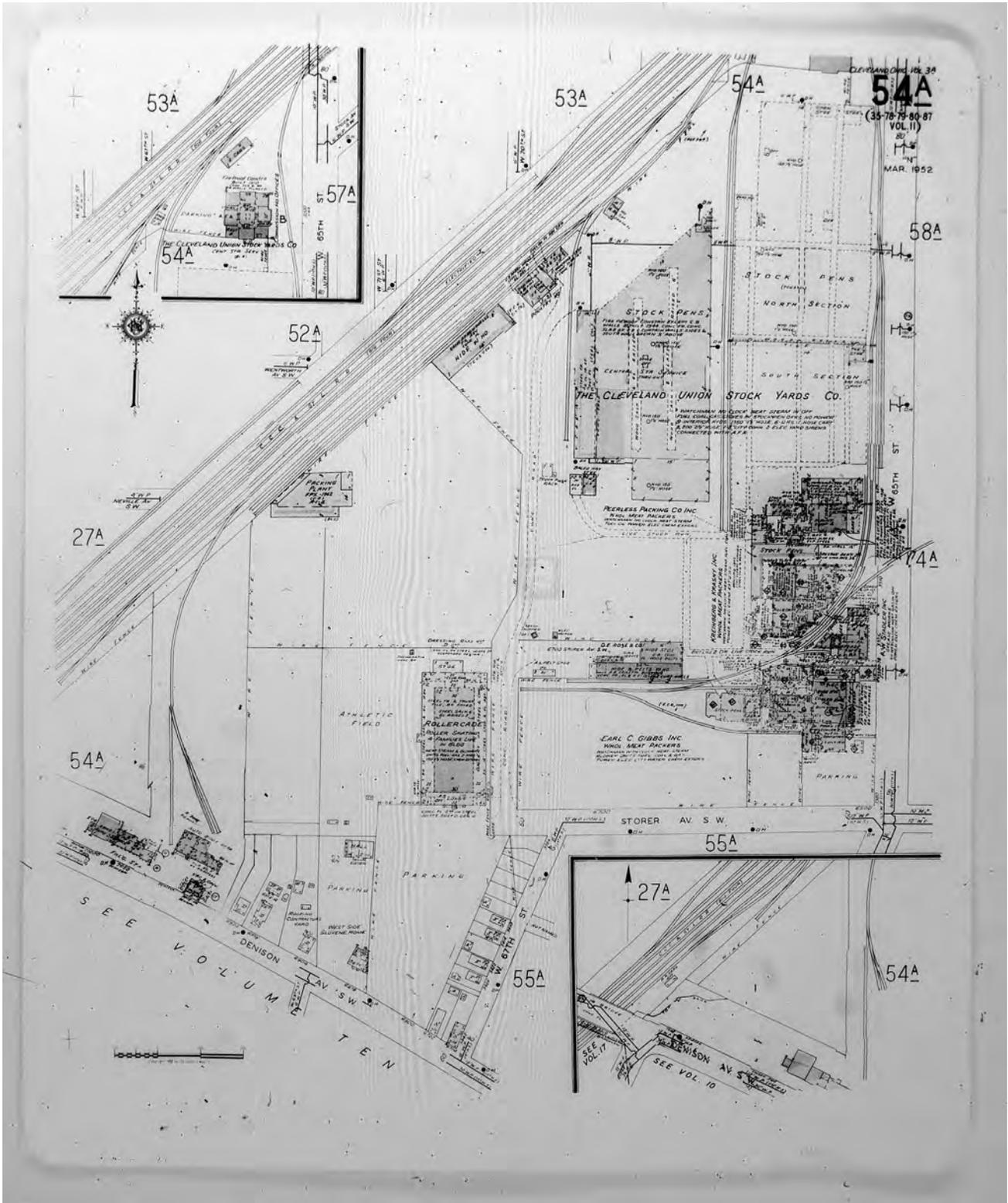


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 3A  
 Base Map Date: 1912  
 Revised Date: January 1957  
 Republished Date: 1952  
 Sheet Number: 51A

**1952**

Requested by: The Mannik & Smith Group,  
 Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



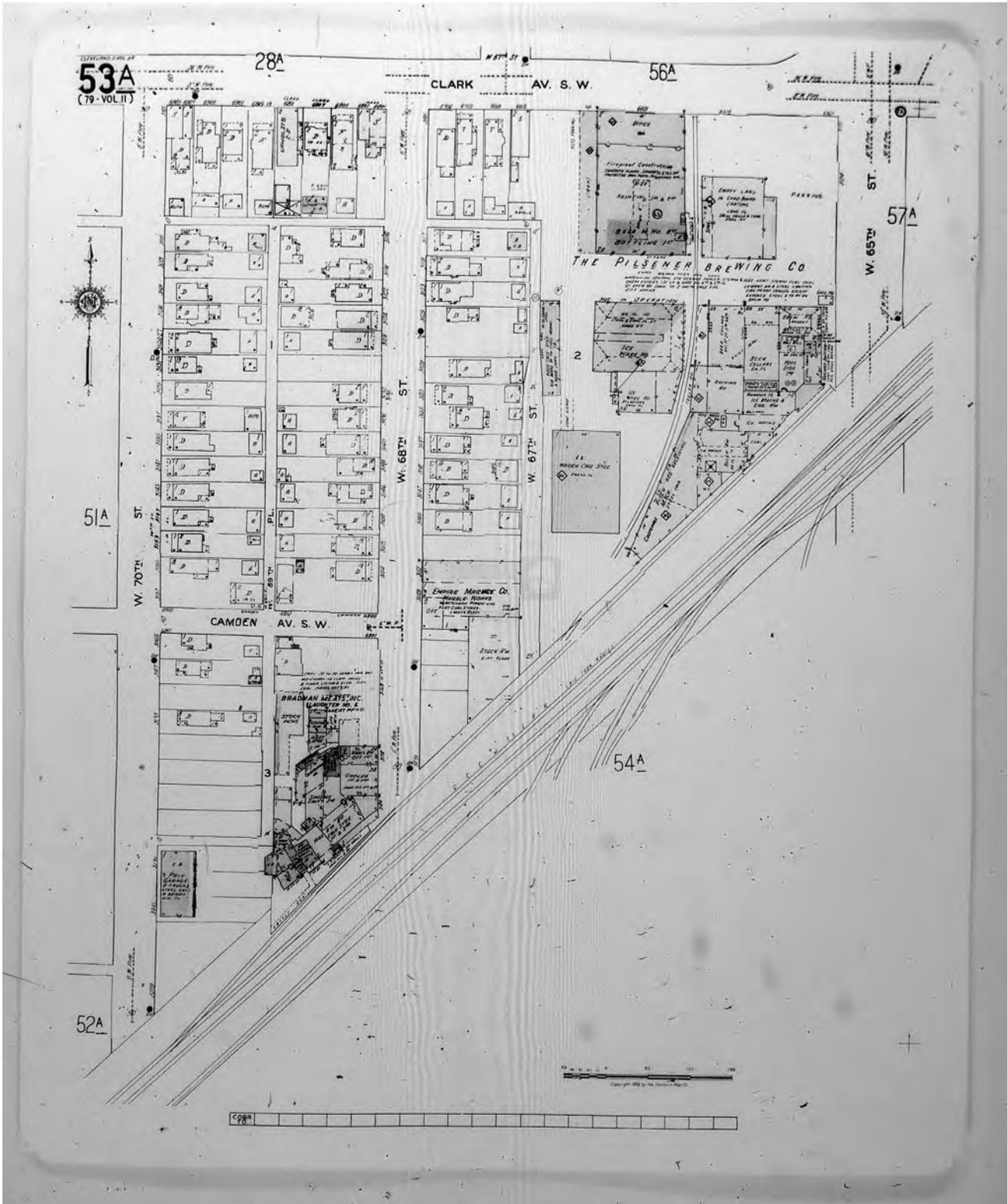


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 3A  
 Base Map Date: 1912  
 Revised Date: 1963  
 Republished Date: 1952  
 Sheet Number: 54A

**1963**

Requested by: The Mannik & Smith Group, Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



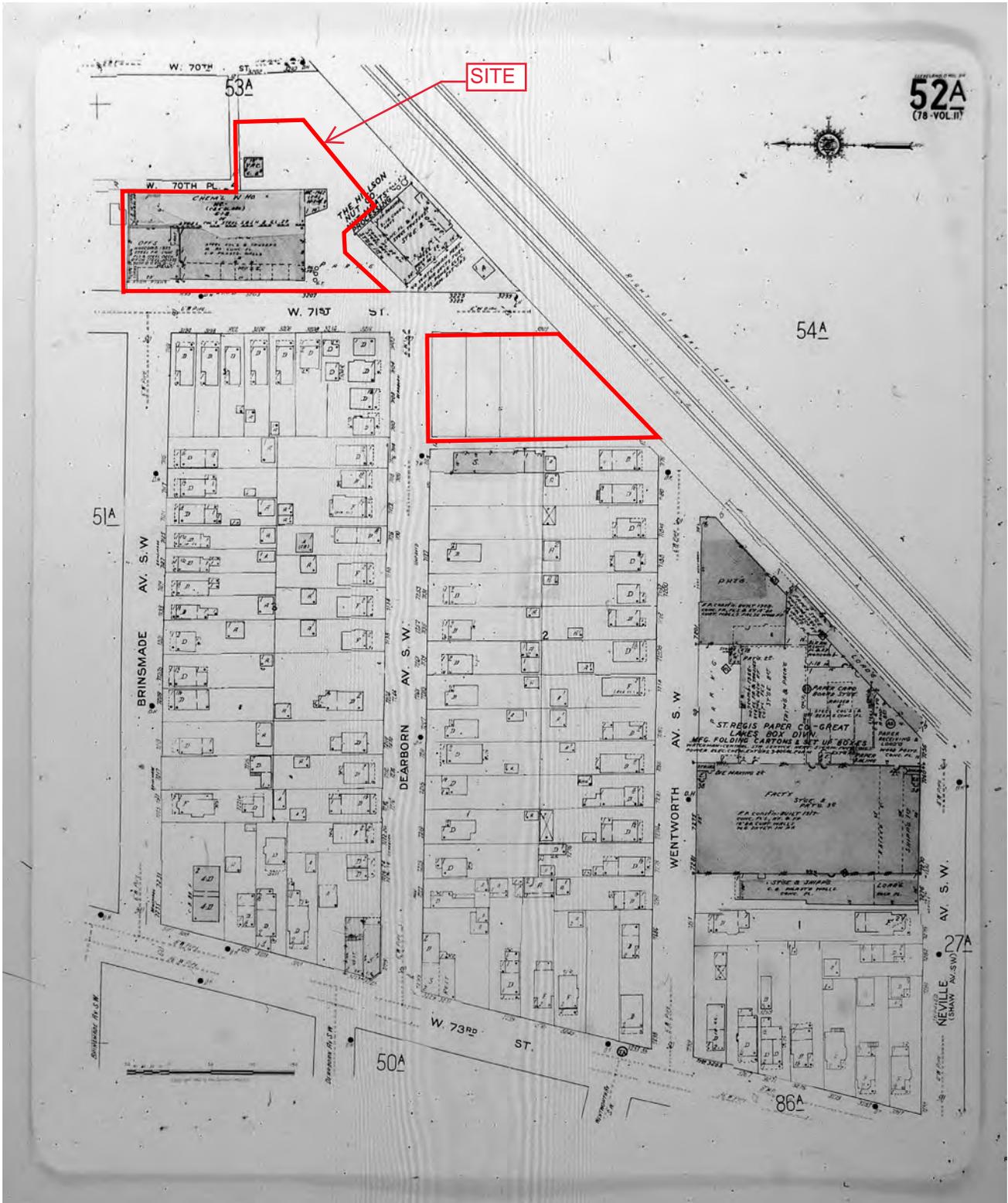


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 3A  
 Base Map Date: 1912  
 Revised Date: 1963  
 Republished Date: 1952  
 Sheet Number: 53A

**1963**

Requested by: The Mannik & Smith Group, Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)





Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 3A  
 Base Map Date: 1912  
 Revised Date: 1963  
 Republished Date: 1952  
 Sheet Number: 52A

**1963**

Requested by: The Mannik & Smith Group, Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



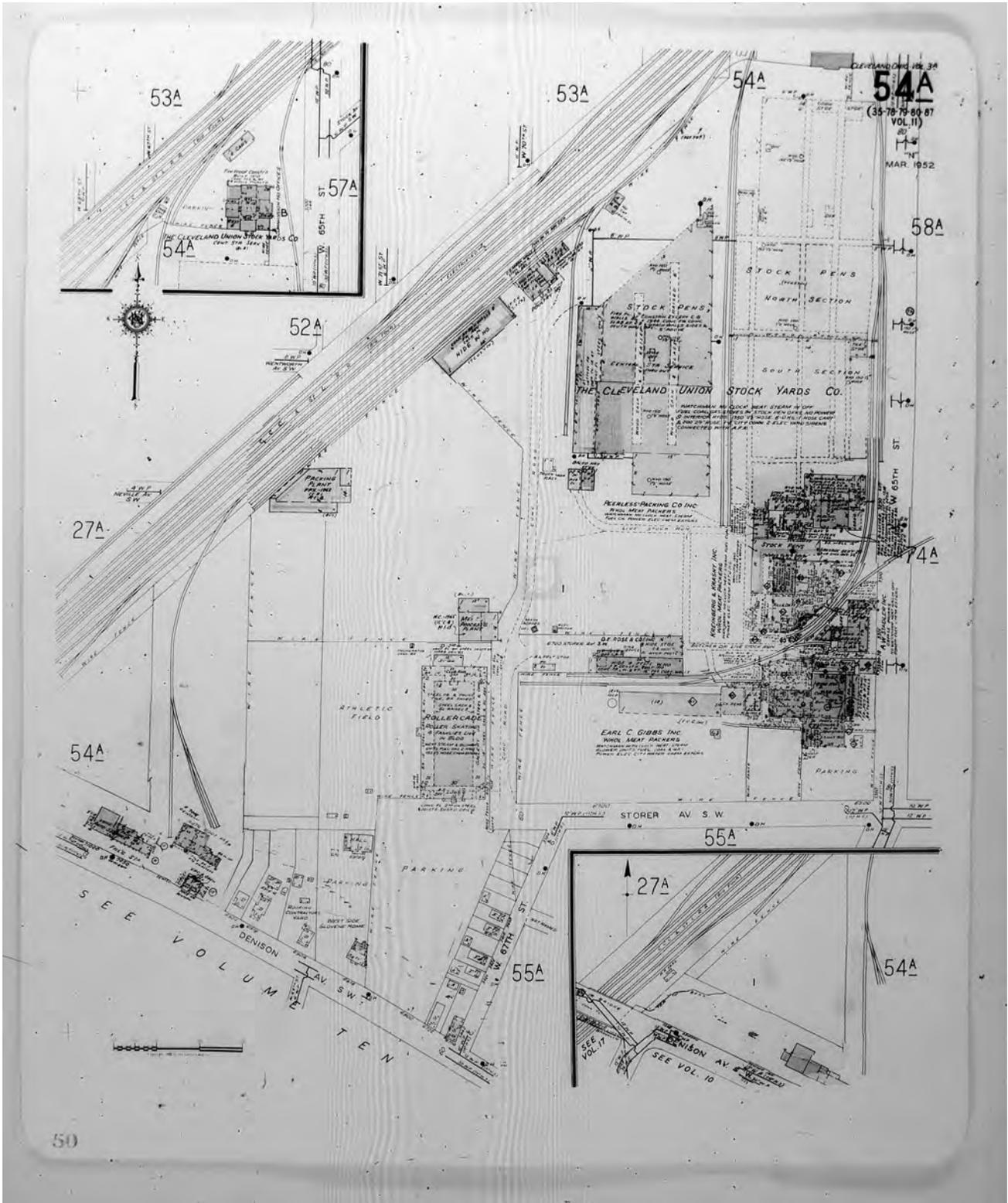


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 3A  
 Base Map Date: 1912  
 Revised Date: 1963  
 Republished Date: 1952  
 Sheet Number: 51A

**1963**

Requested by: The Mannik & Smith Group,  
 Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



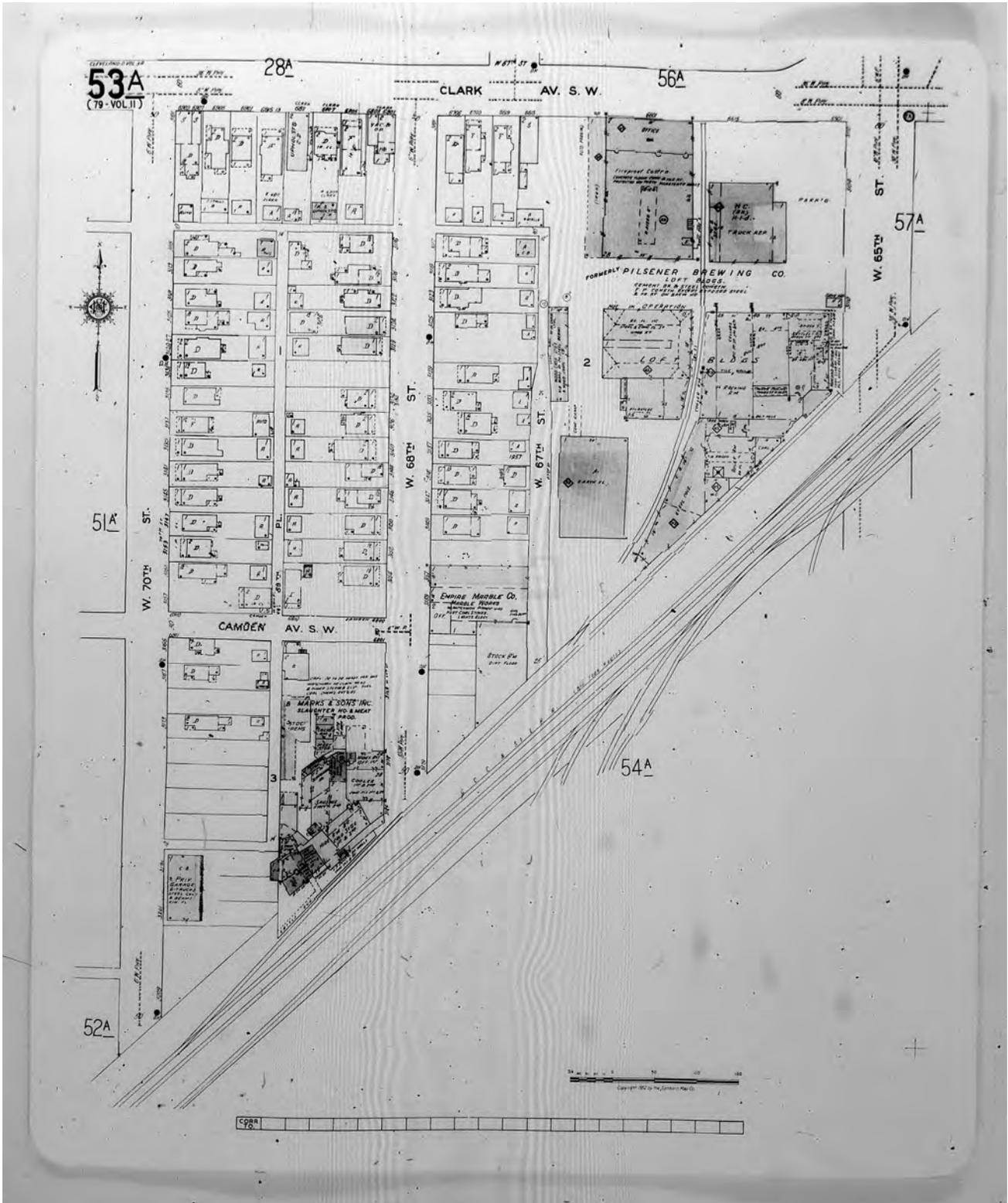


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 3A  
 Base Map Date: 1912  
 Revised Date: 1965  
 Republished Date: 1952  
 Sheet Number: 54A

**1965**

Requested by: The Mannik & Smith Group, Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



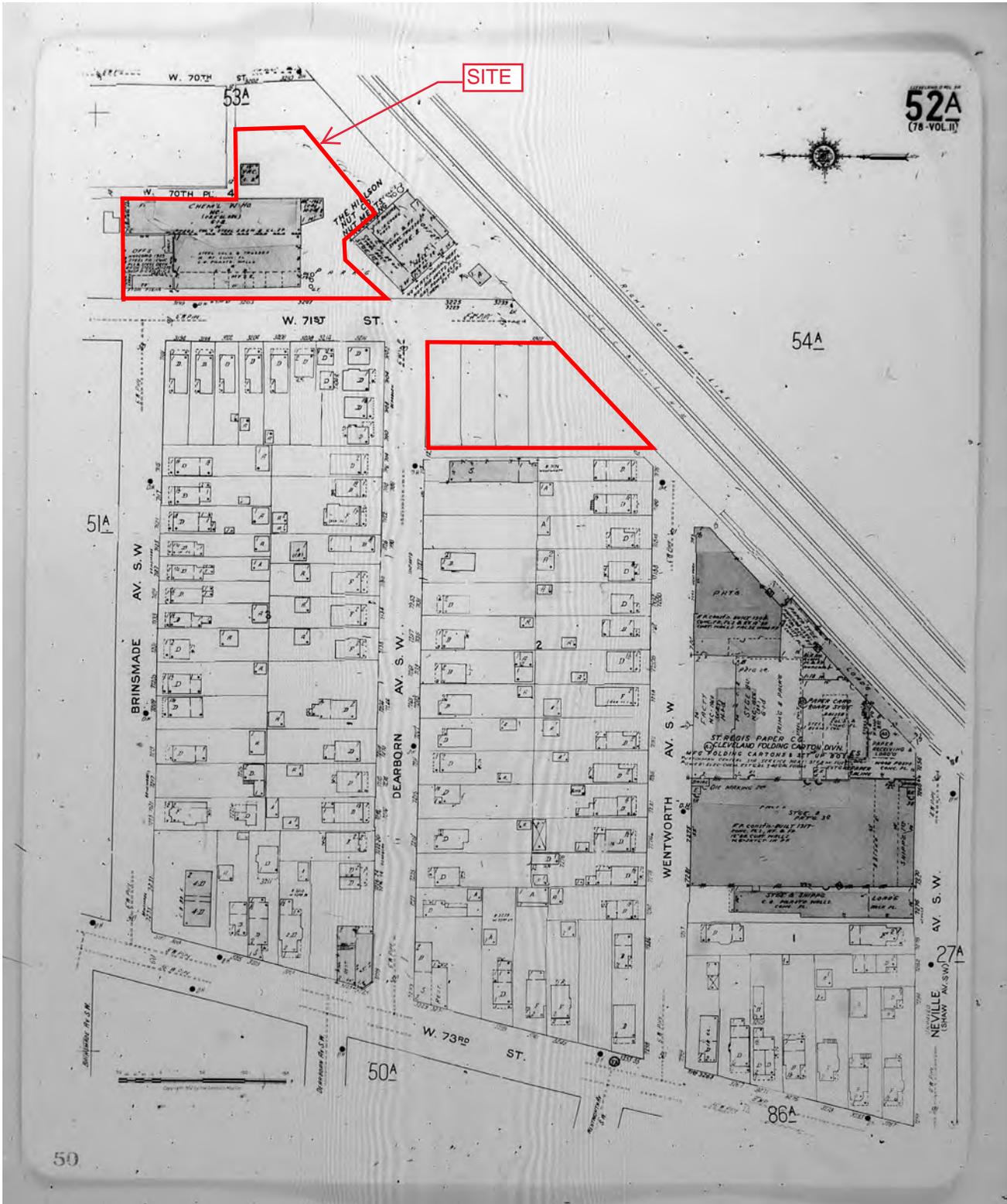


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 3A  
 Base Map Date: 1912  
 Revised Date: 1965  
 Republished Date: 1952  
 Sheet Number: 53A

**1965**

Requested by: The Mannik & Smith Group,  
 Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)





Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 3A  
 Base Map Date: 1912  
 Revised Date: 1965  
 Republished Date: 1952  
 Sheet Number: 52A

**1965**

Requested by: The Mannik & Smith Group,  
 Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



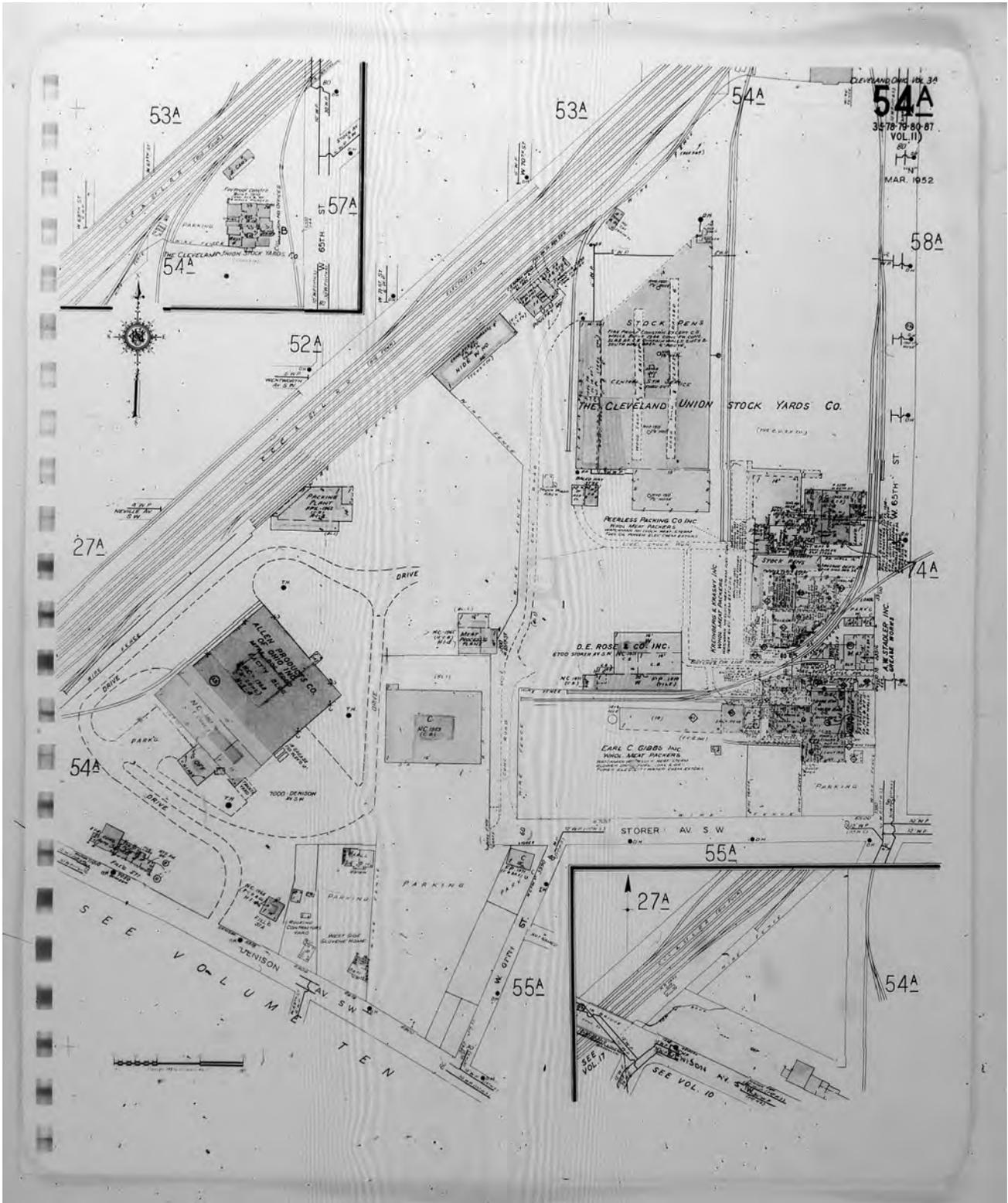


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 3A  
 Base Map Date: 1912  
 Revised Date: 1965  
 Republished Date: 1952  
 Sheet Number: 51A

**1965**

Requested by: The Mannik & Smith Group,  
 Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



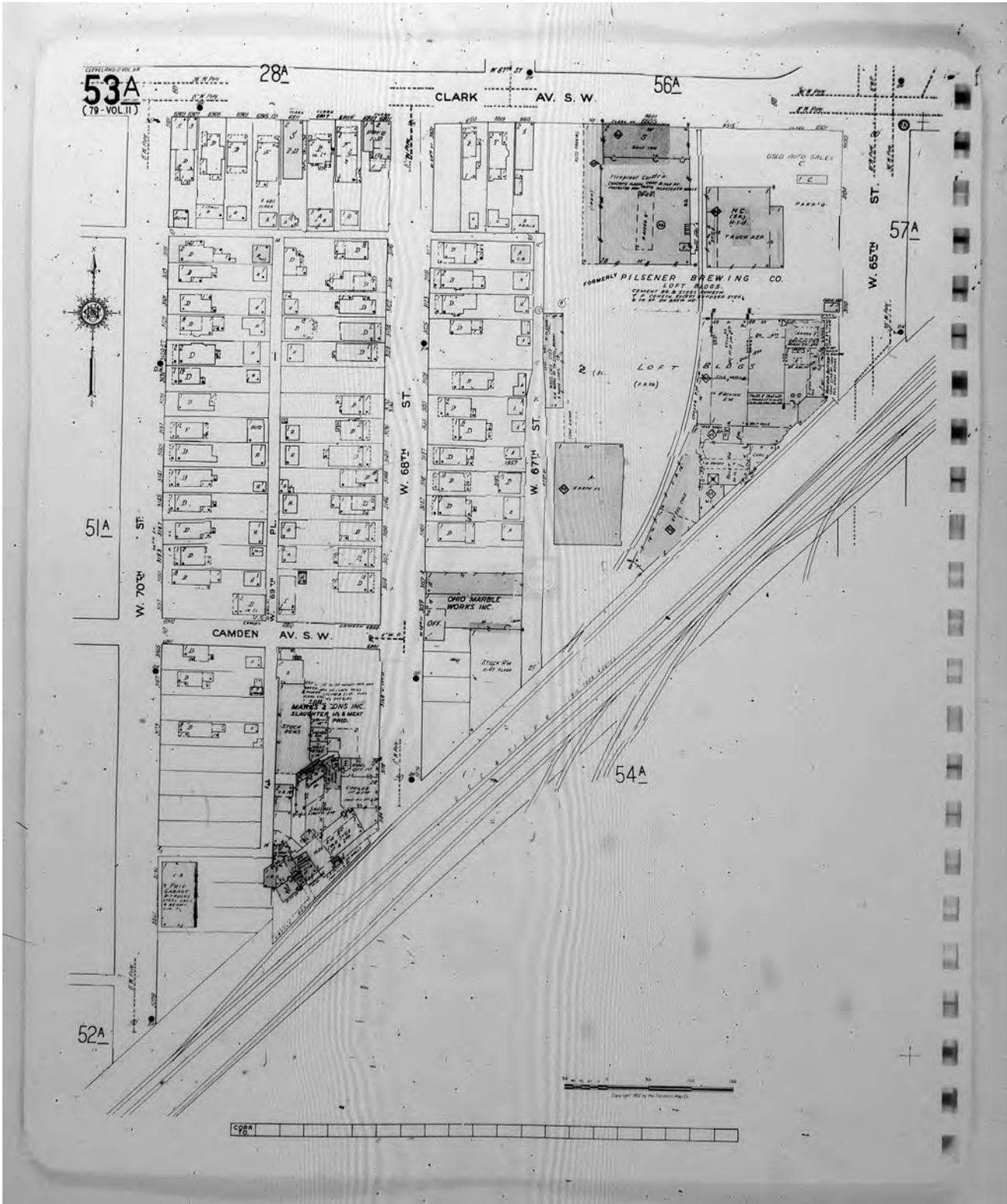


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 3A  
 Base Map Date: 1912  
 Revised Date: 1971  
 Republished Date: 1952  
 Sheet Number: 54A

**1971**

Requested by: The Mannik & Smith Group,  
 Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



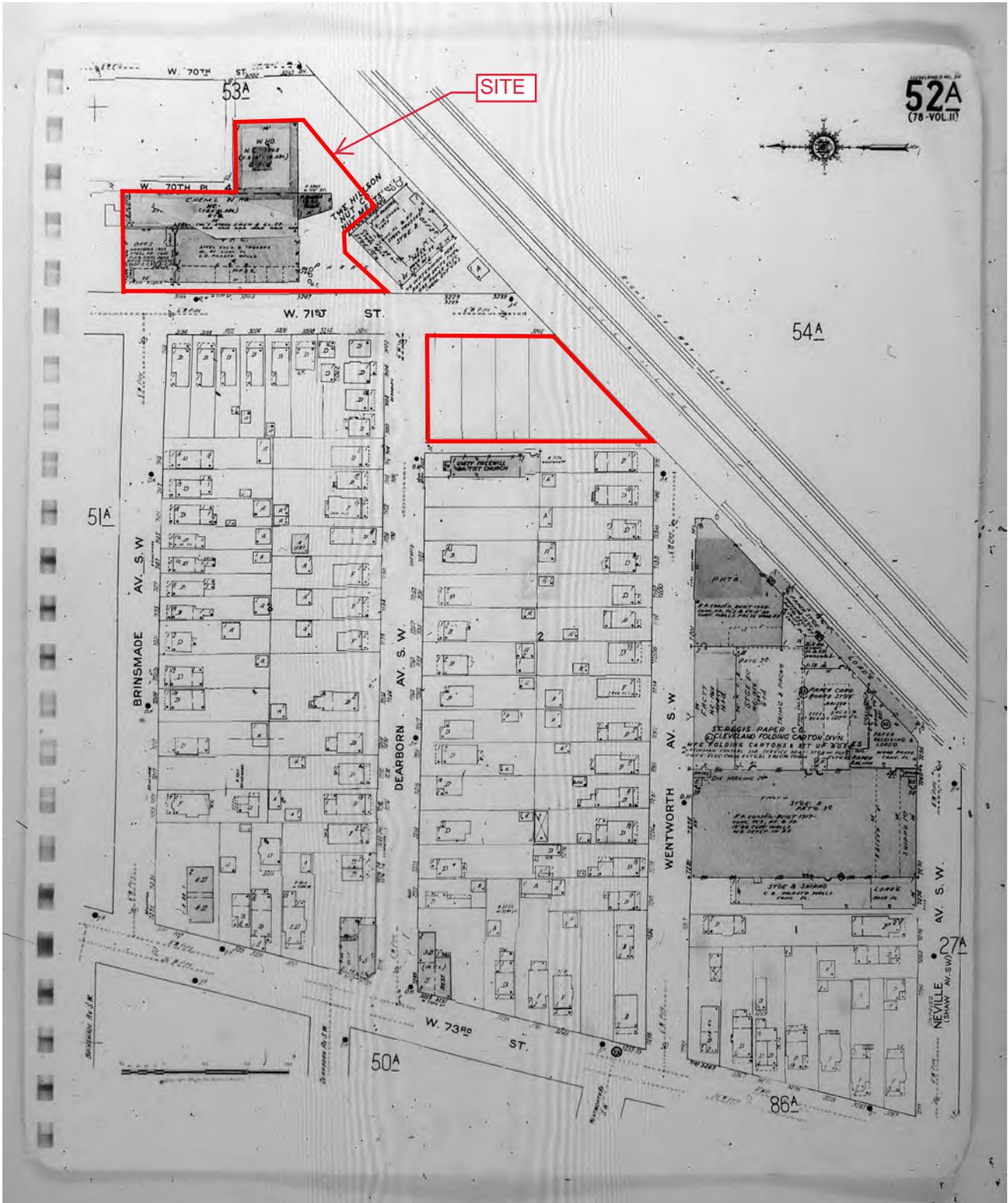


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 3A  
 Base Map Date: 1912  
 Revised Date: 1971  
 Republished Date: 1952  
 Sheet Number: 53A

**1971**

Requested by: The Mannik & Smith Group, Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



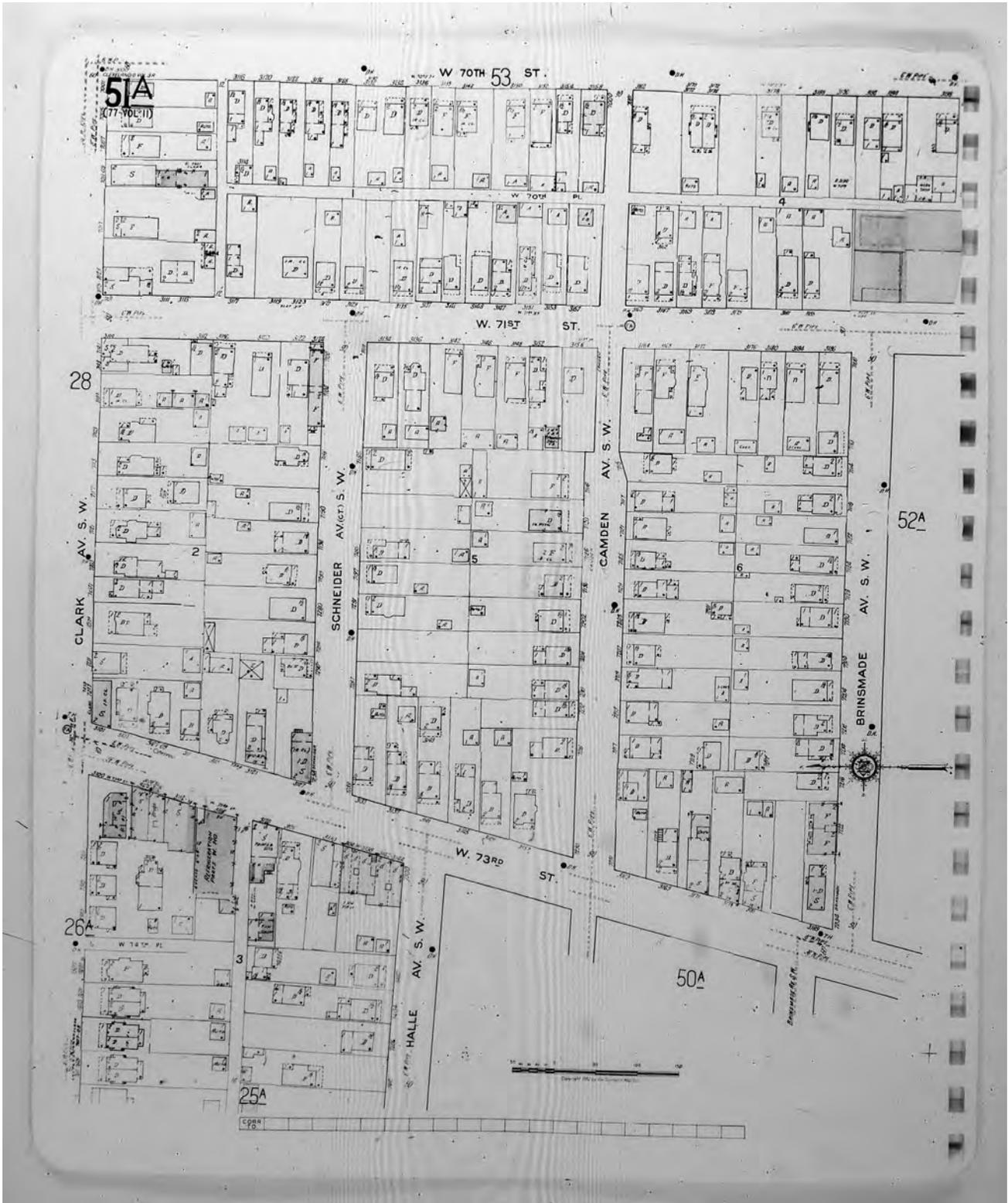


Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 3A  
 Base Map Date: 1912  
 Revised Date: 1971  
 Republished Date: 1952  
 Sheet Number: 52A

**1971**

Requested by: The Mannik & Smith Group, Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)





Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Cleveland, OH Vol. 3A  
 Base Map Date: 1912  
 Revised Date: 1971  
 Republished Date: 1952  
 Sheet Number: 51A

**1971**

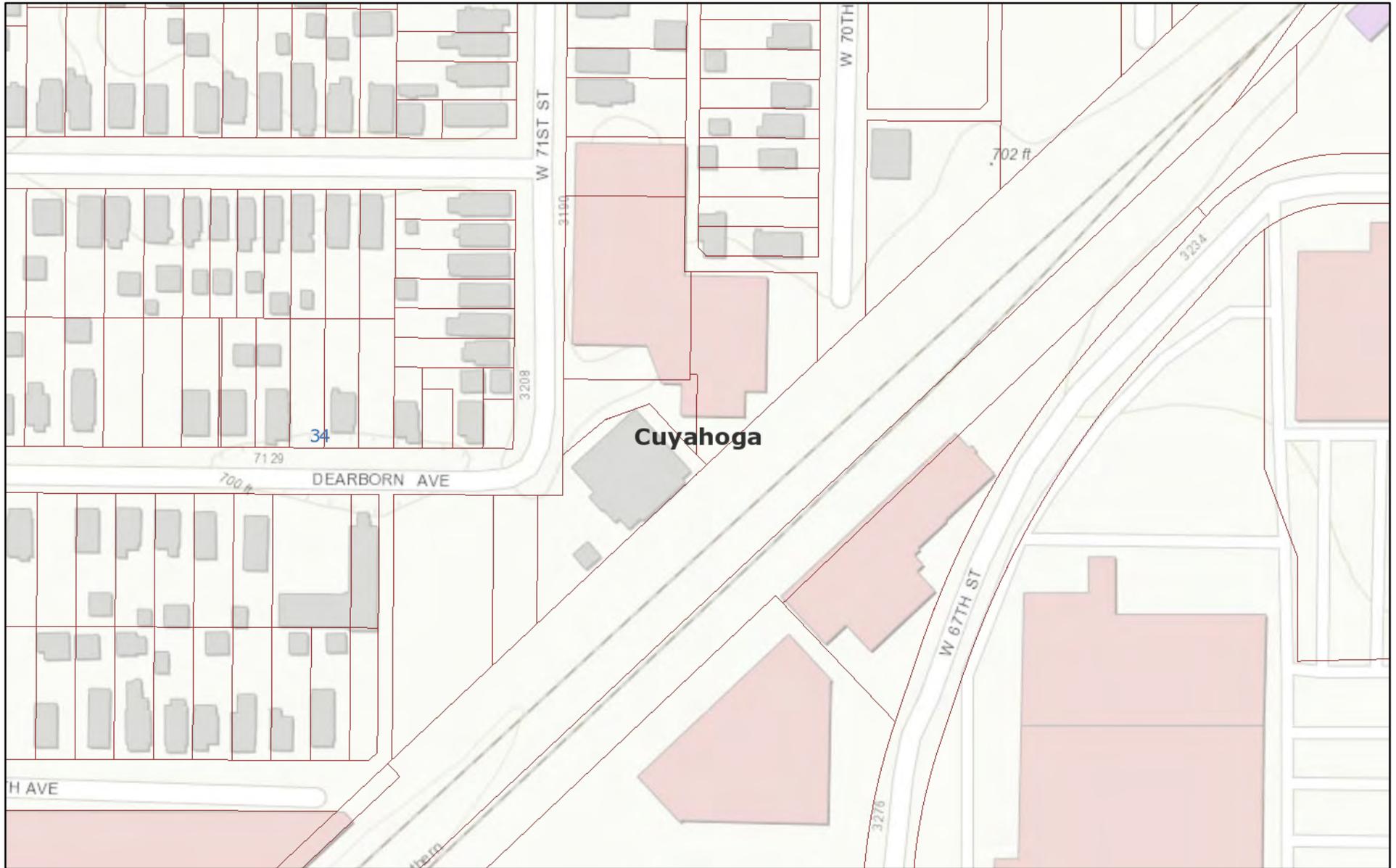
Requested by: The Mannik & Smith Group,  
 Inc.  
 Hillson Nut Company  
 3203 W. 71st Street  
 Cleveland, OH 44102  
 Client Project # ODAS0003  
 HIG Project # 2071190 [www.historicalinfo.com](http://www.historicalinfo.com)



ODNR OIL & GAS WELL MAP

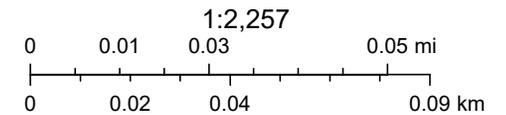


# Ohio Oil & Gas Wells



January 5, 2023

- Statewide Parcels
- Current Township
- Land Subdivision
- Counties



Division of Drinking and Ground Waters, Ohio EPA, Cuyahoga County, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA

ODNR WATER WELL MAP



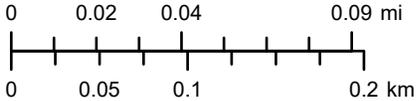
# ODNR Water Wells



- Statewide Parcels
- Current Township
- Counties

January 5, 2023

Scale: 1:4,263



APPENDIX F  
REGULATORY DATABASE REPORT





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# DATABASE REPORT

**Project Property:** *Hillson Nut Company  
3203 W. 71st Street  
Cleveland OH  
2071190*

**Project No:** *2071190*

**Report Type:** *Database Report*

**Order No:** *23010400162*

**Requested by:** *Historical Information Gatherers*

**Date Completed:** *January 6, 2023*

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# Executive Summary

## Property Information:

**Project Property:** *Hillson Nut Company  
3203 W. 71st Street Cleveland OH*

**Project No:** *2071190*

### **Coordinates:**

**Latitude:** *41.467055*  
**Longitude:** *-81.734341*  
**UTM Northing:** *4,590,779.65*  
**UTM Easting:** *438,683.37*  
**UTM Zone:** *17T*

**Elevation:** *700 FT*

## Order Information:

**Order No:** *23010400162*  
**Date Requested:** *January 4, 2023*  
**Requested by:** *Historical Information Gatherers*  
**Report Type:** *Database Report*

## Historicals/Products:

# Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
<b>Standard Environmental Records</b>								
<b>Federal</b>								
DOE FUSRAP	Y	1	0	0	0	0	0	0
NPL	Y	1	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	0.5	0	0	0	0	-	0
SEMS	Y	0.5	0	0	1	0	-	1
ODI	Y	0.5	0	0	0	0	-	0
SEMS ARCHIVE	Y	0.5	0	1	1	1	-	3
CERCLIS	Y	0.5	0	1	1	1	-	3
IODI	Y	0.5	0	0	0	0	-	0
CERCLIS NFRAP	Y	0.5	0	1	1	1	-	3
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	1	0	0	2	3
RCRA TSD	Y	0.5	0	0	0	0	-	0
RCRA LQG	Y	0.25	0	0	0	-	-	0
RCRA SQG	Y	0.25	0	0	0	-	-	0
RCRA VSQG	Y	0.25	0	2	1	-	-	3
RCRA NON GEN	Y	0.25	1	2	1	-	-	4
RCRA CONTROLS	Y	0.5	0	0	0	0	-	0
FED ENG	Y	0.5	0	0	0	0	-	0
FED INST	Y	0.5	0	0	0	0	-	0
LUCIS	Y	0.5	0	0	0	0	-	0
NPL IC	Y	0.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	1	2	4	-	7
FEMA UST	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
FRP	Y	0.25	0	0	0	-	-	0
DELISTED FRP	Y	0.25	0	0	0	-	-	0
HIST GAS STATIONS	Y	0.25	0	0	0	-	-	0
REFN	Y	0.25	0	0	0	-	-	0
BULK TERMINAL	Y	0.25	0	0	0	-	-	0
SEMS LIEN	Y	PO	0	-	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	0	0

**State**

DERR	Y	1	0	1	2	3	9	15
DELISTED DERR	Y	1	0	0	0	0	0	0
SWF/LF	Y	0.5	0	0	0	0	-	0
HIST LF	Y	0.5	0	0	0	0	-	0
LUST	Y	0.5	0	3	9	32	-	44
DELISTED LST	Y	0.5	0	1	1	13	-	15
LST	Y	0.5	0	0	0	0	-	0
UST	Y	0.25	0	3	8	-	-	11
DTNK	Y	0.25	0	0	0	-	-	0
TANKS	Y	0.25	0	0	0	-	-	0
ENG	Y	0.5	0	0	0	0	-	0
INST	Y	0.5	0	0	0	2	-	2
VCP	Y	0.5	0	0	1	2	-	3
VAP CNS	Y	0.5	0	0	0	2	-	2
BROWNFIELDS	Y	0.5	0	0	0	0	-	0

**Tribal**

INDIAN LUST	Y	0.5	0	0	0	0	-	0
INDIAN UST	Y	0.25	0	0	0	-	-	0
DELISTED ILST	Y	0.5	0	0	0	0	-	0
DELISTED IUST	Y	0.25	0	0	0	-	-	0

**County**

*No County standard environmental record sources available for this State.*

**Additional Environmental Records**

**Federal**

FINDS/FRS	Y	PO	2	2	-	-	-	4
TRIS	Y	PO	0	-	-	-	-	0

<b>Database</b>	<b>Searched</b>	<b>Search Radius</b>	<b>Project Property</b>	<b>Within 0.12mi</b>	<b>0.125mi to 0.25mi</b>	<b>0.25mi to 0.50mi</b>	<b>0.50mi to 1.00mi</b>	<b>Total</b>
PFAS TRI	Y	0.5	0	0	0	0	-	0
PFAS NPL	Y	0.5	0	0	0	0	-	0
PFAS WATER	Y	0.5	0	0	0	0	-	0
PFAS SSEHRI	Y	0.5	0	0	0	0	-	0
ERNS PFAS	Y	0.5	0	0	0	0	-	0
HMIRS	Y	0.125	0	0	-	-	-	0
NCDL	Y	0.125	0	0	-	-	-	0
TSCA	Y	0.125	0	0	-	-	-	0
HIST TSCA	Y	0.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
ICIS	Y	PO	0	-	-	-	-	0
FED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED FED DRY	Y	0.25	0	0	0	-	-	0
FUDS	Y	1	0	0	0	0	0	0
FORMER NIKE	Y	1	0	0	0	0	0	0
PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	0.25	0	0	0	-	-	0
SMCRA	Y	1	0	0	0	0	0	0
MRDS	Y	1	0	0	0	0	0	0
LM SITES	Y	1	0	0	0	0	0	0
ALT FUELS	Y	0.25	0	0	0	-	-	0
CONSENT DECREES	Y	0.25	0	0	0	-	-	0
AFS	Y	PO	0	-	-	-	-	0
SSTS	Y	0.25	0	0	0	-	-	0
PCBT	Y	0.5	0	0	0	0	-	0
PCB	Y	0.5	1	0	0	0	-	1
<b>State</b>								
SPILLS	Y	0.125	1	3	-	-	-	4
TOWNGAS	Y	1	0	0	0	0	0	0
DRYCLEANERS	Y	0.25	0	0	0	-	-	0



## Executive Summary: Site Report Summary - Project Property

<b>Map Key</b>	<b>DB</b>	<b>Company/Site Name</b>	<b>Address</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev Diff (ft)</b>	<b>Page Number</b>
<a href="#">1</a>	USD	Cleveland - Inner West	OH	W	0.00 / 0.00	0	<a href="#">38</a>
<a href="#">1</a>	USD	Cleveland City-wide	601 Lakeside Ave, Rm 210 Cleveland OH 44114-	W	0.00 / 0.00	0	<a href="#">38</a>
<a href="#">2</a>	FINDS/FRS	PROTECTIVE PACKAGING PRODUCTS CO INC *	3203 W 71ST ST CLEVELAND OH 44102 <i>Registry ID: 110004585299</i>	ENE	0.00 / 0.00	2	<a href="#">38</a>
<a href="#">2</a>	FINDS/FRS	ROHCO INC *	3203 W 71ST ST CLEVELAND OH 44102 <i>Registry ID: 110009602153</i>	ENE	0.00 / 0.00	2	<a href="#">39</a>
<a href="#">2</a>	SPILLS		3203 W 71ST ST CLEVELAND OH <i>Spill No: 732</i>	ENE	0.00 / 0.00	2	<a href="#">39</a>
<a href="#">2</a>	PCB	ADVANCE HANDLING	3203 W. 71 ST. CLEVELAND OH 44102 <i>Site ID: OHD000720110</i>	ENE	0.00 / 0.00	2	<a href="#">40</a>
<a href="#">2</a>	RCRA NON GEN	AMERICAN RECYCLING COMPANY INC	3203 W 71ST ST CLEVELAND OH 44102 <i>EPA Handler ID: OHD000720110</i>	ENE	0.00 / 0.00	2	<a href="#">40</a>

## Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
<a href="#">3</a>	SPILLS		3204 WEST 71ST STREET CLEVELAND OH  <i>Spill No:</i> 691	NW	0.02 / 83.01	1	<a href="#">49</a>
<a href="#">4</a>	CERCLIS	SIMKINS INDUSTRIES	7275 WENTWORTH AVENUE CLEVELAND OH 44102  <i>Site EPA ID:</i> OHD097623961	SW	0.02 / 92.32	2	<a href="#">49</a>
<a href="#">4</a>	CERCLIS NFRAP	SIMKINS INDUSTRIES	7275 WENTWORTH AVENUE CLEVELAND OH 44102  <i>Site EPA ID:</i> OHD097623961	SW	0.02 / 92.32	2	<a href="#">50</a>
<a href="#">4</a>	RCRA CORRACTS	SIMKINS INDUSTRIES	7275 WENTWORTH AVE CLEVELAND OH 44102  <i>EPA Handler ID:</i> OHD097623961	SW	0.02 / 92.32	2	<a href="#">51</a>
<a href="#">4</a>	SPILLS		7275 WENTWORTH AVE CLEVELAND OH	SW	0.02 / 92.32	2	<a href="#">56</a>
<a href="#">4</a>	DERR	Simkins Ind, Cleveland	7275 Wentworth Ave Cleveland OH 44102	SW	0.02 / 92.32	2	<a href="#">56</a>
<a href="#">4</a>	FINDS/FRS	SIMKINS INDUSTRIES INC	7275 WENTWORTH AVE CLEVELAND OH 44102  <i>Registry ID:</i> 110004629723	SW	0.02 / 92.32	2	<a href="#">57</a>
<a href="#">4</a>	FINDS/FRS	ARTSPACES @ STOCKYARDS	7275 WENTWORTH AVENUE CLEVELAND OH 44102  <i>Registry ID:</i> 110038697764	SW	0.02 / 92.32	2	<a href="#">57</a>
<a href="#">4</a>	FED BROWNFIELDS	Artspace @ Stockyards	7275 Wentworth Avenue Cleveland OH 44102  <i>Property ID:</i> 15585	SW	0.02 / 92.32	2	<a href="#">58</a>
<a href="#">4</a>	SEMS ARCHIVE	SIMKINS INDUSTRIES	7275 WENTWORTH AVENUE CLEVELAND OH 44102  <i>EPA ID:</i> OHD097623961	SW	0.02 / 92.32	2	<a href="#">61</a>
<a href="#">4</a>	RCRA NON GEN	SIMKINS INDUSTRIES	7275 WENTWORTH AVE CLEVELAND OH 44102  <i>EPA Handler ID:</i> OHD097623961	SW	0.02 / 92.32	2	<a href="#">62</a>
<a href="#">5</a>	LUST	SHAKER VALLEY FOODS	3304 W 67TH PL CLEVELAND OH 44128  <i>Release No (OTTER):</i> 18010422-N00001 <i>Facility Status | LTF Status | Date Last Change:</i> Inactive | 6 Closure of regulated UST | 12/26/2001	SSE	0.07 / 383.88	6	<a href="#">65</a>

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
<a href="#">5</a>	UST	SHAKER VALLEY FOODS	3304 W 67TH PL CLEVELAND OH 44128	SSE	0.07 / 383.88	6	<a href="#">66</a>
			<i>Fac No (OTTER):</i> 18010422 <i>Tank No / Status:</i> T00001 | REM - Removed, T00002 | REM - Removed				
<a href="#">6</a>	RCRA VSQG	KMART # 3292	3250 W 65TH STREET CLEVELAND OH 44102	ESE	0.10 / 546.11	3	<a href="#">68</a>
			<i>EPA Handler ID:</i> OHR000153999				
<a href="#">6</a>	DELISTED LST	KMART #3292	3250 W 65TH ST CLEVELAND OH 44102	ESE	0.10 / 546.11	3	<a href="#">70</a>
<a href="#">6</a>	SPILLS		3250 W 65TH ST CLEVELAND OH	ESE	0.10 / 546.11	3	<a href="#">70</a>
<a href="#">6</a>	UST	KMART #3292	3250 W 65TH ST CLEVELAND OH 44102	ESE	0.10 / 546.11	3	<a href="#">70</a>
			<i>Fac No (OTTER):</i> 18000311 <i>Tank No / Status:</i> T00001 | REM - Removed				
<a href="#">6</a>	LUST	KMART #3292	3250 W 65TH ST CLEVELAND OH 44102	ESE	0.10 / 546.11	3	<a href="#">72</a>
<a href="#">7</a>	RCRA NON GEN	LAMSON & SESSIONS CO THE	7000 DENISON AVE CLEVELAND OH 44102	SSW	0.11 / 591.03	16	<a href="#">73</a>
			<i>EPA Handler ID:</i> OHD092621002				
<a href="#">7</a>	RCRA VSQG	PARK OHIO PRODUCTS INC	7000 DENISON AVE CLEVELAND OH 44102	SSW	0.11 / 591.03	16	<a href="#">74</a>
			<i>EPA Handler ID:</i> OHD980898175				
<a href="#">7</a>	LUST	R B & W CORP.	7000 DENISON VE CLEVELAND OH 44102	SSW	0.11 / 591.03	16	<a href="#">76</a>
			<i>Release No (OTTER):</i> 18008341-N00001 <i>Facility Status | LTF Status | Date Last Change:</i> Inactive | 1 SUS/CON from regulated UST | 5/7/1999				
<a href="#">7</a>	UST	R B & W CORP.	7000 DENISON VE CLEVELAND OH 44102	SSW	0.11 / 591.03	16	<a href="#">78</a>
			<i>Fac No (OTTER):</i> 18008341 <i>Tank No / Status:</i> T00002 | REM - Removed, T00001 | REM - Removed, T00004 | REM - Removed, T00006 | REM - Removed, T00003 | REM - Removed, T00005 | REM - Removed				
<a href="#">8</a>	DERR	Cleveland City of Inner West Side Area USD	OH	ESE	0.13 / 685.12	3	<a href="#">84</a>
<a href="#">8</a>	VCP	Cleveland City of Inner West Side Area USD	!FILL! !FILL! OH !FILL!	ESE	0.13 / 685.12	3	<a href="#">84</a>
<a href="#">9</a>	SEMS	FLUORESCENT RECYCLING	7260 Neville Ave CLEVELAND OH 44102	WSW	0.14 / 738.34	10	<a href="#">85</a>
			<i>EPA ID:</i> OHN000507862				

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
<a href="#">9</a>	RCRA NON GEN	FLUORESCENT RECYCLING INC	7260 NEVILLE AVE CLEVELAND OH 44118  <i>EPA Handler ID:</i> OHR000173047	WSW	0.14 / 738.34	10	<a href="#">86</a>
<a href="#">10</a>	DELISTED LST	DE ROSE CO	3345 W 67TH ST CLEVELAND OH 44102	SSE	0.15 / 812.53	9	<a href="#">93</a>
<a href="#">10</a>	UST	D. E. ROSE CO	3345 W 67TH ST CLEVELAND OH 44102  <i>Fac No (OTTER):</i> 18010241 <i>Tank No | Status:</i> T00001 | REM - Removed	SSE	0.15 / 812.53	9	<a href="#">94</a>
<a href="#">10</a>	LUST	DE ROSE CO	3345 W 67TH ST CLEVELAND OH 44102	SSE	0.15 / 812.53	9	<a href="#">95</a>
<a href="#">11</a>	FED BROWNFIELDS	West 65th Street Equity Partners	West 65th Street and West 67th Place Cleveland OH 44102  <i>Property ID:</i> 12633	E	0.17 / 909.31	-9	<a href="#">96</a>
<a href="#">12</a>	CERCLIS	SWIFT COMPANY	3229 WEST 65TH STREET CLEVELAND OH 44114  <i>Site EPA ID:</i> OHD987015526	E	0.17 / 921.59	-4	<a href="#">99</a>
<a href="#">12</a>	CERCLIS NFRAP	SWIFT COMPANY	3229 WEST 65TH STREET CLEVELAND OH 44114  <i>Site EPA ID:</i> OHD987015526	E	0.17 / 921.59	-4	<a href="#">101</a>
<a href="#">12</a>	DERR	Swift Co, Cleveland	3229 W 65th St Cleveland OH 44114	E	0.17 / 921.59	-4	<a href="#">103</a>
<a href="#">12</a>	SEMS ARCHIVE	SWIFT COMPANY	3229 WEST 65TH STREET CLEVELAND OH 44114  <i>EPA ID:</i> OHD987015526	E	0.17 / 921.59	-4	<a href="#">104</a>
<a href="#">13</a>	LUST	AAROMET METALLICS	3207 WEST 65TH ST CLEVELAND OH 44102  <i>Release No (OTTER):</i> 18011172-N00001 <i>Facility Status | LTF Status | Date Last Change:</i> Inactive | 6 Closure of regulated UST | 4/18/2008	E	0.19 / 1,000.78	-1	<a href="#">104</a>
<a href="#">13</a>	UST	AAROMET METALLICS	3207 WEST 65TH ST CLEVELAND OH 44102  <i>Fac No (OTTER):</i> 18011172 <i>Tank No | Status:</i> T00002 | REM - Removed, T00001 | REM - Removed	E	0.19 / 1,000.78	-1	<a href="#">106</a>
<a href="#">14</a>	LUST	HERB KAY CO., INC.	7300 CLARK AVE CLEVELAND OH 44102  <i>Release No (OTTER):</i> 18001006-N00001 <i>Facility Status | LTF Status | Date Last Change:</i> Inactive | 1 SUS/CON from regulated UST | 10/28/2020	NNW	0.20 / 1,077.66	-3	<a href="#">108</a>
<a href="#">14</a>	UST	HERB KAY CO., INC.	7300 CLARK AVE CLEVELAND OH 44102  <i>Fac No (OTTER):</i> 18001006 <i>Tank No | Status:</i> T00005 | REM - Removed, T00003 | REM - Removed, T00002 | REM - Removed, T00004 | REM - Removed, T00001 | REM - Removed	NNW	0.20 / 1,077.66	-3	<a href="#">109</a>

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
<a href="#">15</a>	RCRA VSQG	DARLING INTERNATIONAL INC	3275 W 65TH ST CLEVELAND OH 44102	ESE	0.21 / 1,133.54	-1	<a href="#">115</a>
			<b>EPA Handler ID:</b> OHR000042374				
<a href="#">15</a>	LUST	DARLING INTERNATIONAL INC	3275 W 65TH ST CLEVELAND OH 44102	ESE	0.21 / 1,133.54	-1	<a href="#">115</a>
			<b>Release No (OTTER):</b> 18008039-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 1/11/1994				
<a href="#">15</a>	LUST	DARLING INTERNATIONAL INC	3275 W 65TH ST CLEVELAND OH 44102	ESE	0.21 / 1,133.54	-1	<a href="#">117</a>
			<b>Release No (OTTER):</b> 18008039-N00002 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 7/12/2011				
<a href="#">15</a>	UST	DARLING INTERNATIONAL INC	3275 W 65TH ST CLEVELAND OH 44102	ESE	0.21 / 1,133.54	-1	<a href="#">118</a>
			<b>Fac No (OTTER):</b> 18008039 <b>Tank No | Status:</b> T00001 | REM - Removed, T00003 | REM - Removed, T00004 | REM - Removed, T00002 | REM - Removed				
<a href="#">16</a>	LUST	ARCHITECTURAL PRODUCTS	6605 CLARK AVE CLEVELAND OH 44102	NE	0.21 / 1,133.84	-11	<a href="#">122</a>
			<b>Release No (OTTER):</b> 18008346-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 9/16/1999				
<a href="#">16</a>	UST	ARCHITECTURAL PRODUCTS	6605 CLARK AVE CLEVELAND OH 44102	NE	0.21 / 1,133.84	-11	<a href="#">124</a>
			<b>Fac No (OTTER):</b> 18008346 <b>Tank No | Status:</b> T00002 | REM - Removed, T00001 | REM - Removed				
<a href="#">17</a>	FED BROWNFIELDS	Pilsner Square 6605 Clark	6605 Clark Ave. CLEVELAND OH 44102	NE	0.23 / 1,196.57	-9	<a href="#">126</a>
			<b>Property ID:</b> 250537				
<a href="#">18</a>	LUST	ACTION AUTO SERVICE	7050 DENNISON AVE CLEVELAND OH 44114	SSW	0.24 / 1,260.42	31	<a href="#">146</a>
			<b>Release No (OTTER):</b> 18003232-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Active | 1 SUS/CON from regulated UST | 7/11/2012				
<a href="#">18</a>	UST	ACTION AUTO SERVICE	7050 DENNISON AVE CLEVELAND OH 44114	SSW	0.24 / 1,260.42	31	<a href="#">147</a>
			<b>Fac No (OTTER):</b> 18003232 <b>Tank No | Status:</b> T00003 | REM - Removed, T00004 | REM - Removed, T00001 | REM - Removed, T00002 | REM - Removed				
<a href="#">19</a>	LUST	DENNISON CARE	6918 DENISON AVE CLEVELAND OH 44102	SSW	0.25 / 1,299.72	34	<a href="#">152</a>
			<b>Release No (OTTER):</b> 18009772-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Active | 1 SUS/CON from regulated UST | 4/20/2015				
<a href="#">19</a>	UST	DENNISON CARE	6918 DENISON AVE CLEVELAND OH 44102	SSW	0.25 / 1,299.72	34	<a href="#">153</a>
			<b>Fac No (OTTER):</b> 18009772 <b>Tank No | Status:</b> T00003 | REM - Removed, T00001 | REM - Removed, T00002 | REM - Removed				
<a href="#">20</a>	LUST	TRAVEL-RITE	3316 WEST 65TH STREET CLEVELAND OH 44102	SE	0.25 / 1,313.38	5	<a href="#">156</a>
			<b>Release No (OTTER):</b> 18000153-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 10/21/1999				
<a href="#">20</a>	UST	TRAVEL-RITE	3316 WEST 65TH STREET CLEVELAND OH 44102	SE	0.25 / 1,313.38	5	<a href="#">158</a>

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
			<i>Fac No (OTTER):</i> 18000153 <i>Tank No | Status:</i> T00001 | REM - Removed				
<a href="#">21</a>	DELISTED LST	ACTION AUTO SERVICE	7050 DENNISON AVE CLEVELAND OH 44114	SSW	0.25 / 1,320.02	38	<a href="#">159</a>
<a href="#">22</a>	DELISTED LST	DENNISON CARE	6918 DENISON AVE CLEVELAND OH 44102	SSW	0.26 / 1,391.15	37	<a href="#">159</a>
<a href="#">23</a>	DERR	Wire Net, Cleveland	Corner of Walworth Ave & W 65th St Cleveland OH 44102	NE	0.26 / 1,394.47	-18	<a href="#">159</a>
<a href="#">23</a>	INST	Wire Net, Cleveland	*Corner of Walworth Ave & W 65th St Cleveland OH 44102	NE	0.26 / 1,394.47	-18	<a href="#">160</a>
<a href="#">23</a>	VCP	Wire Net, Cleveland	*Corner of Walworth Ave & W 65th St Cleveland OH 44102	NE	0.26 / 1,394.47	-18	<a href="#">162</a>
<a href="#">23</a>	VAP CNS	Wire Net, Cleveland	*Corner of Walworth Ave & W 65th St Cleveland OH	NE	0.26 / 1,394.47	-18	<a href="#">163</a>
<a href="#">24</a>	CERCLIS	BOEHM PRESSED STEEL CO THE	2219 W 63RD ST CLEVELAND OH 44102  <i>Site EPA ID:</i> OHD004182069	ENE	0.27 / 1,414.90	-4	<a href="#">164</a>
<a href="#">24</a>	CERCLIS NFRAP	BOEHM PRESSED STEEL CO THE	2219 W 63RD ST CLEVELAND OH 44102  <i>Site EPA ID:</i> OHD004182069	ENE	0.27 / 1,414.90	-4	<a href="#">165</a>
<a href="#">24</a>	LUST	FORMER BOEHM PRESSED STEEL	2219 W 63RD ST CLEVELAND OH 44102  <i>Release No (OTTER):</i> 18002334-N00001 <i>Facility Status | LTF Status | Date Last Change:</i> Inactive | 1 SUS/CON from regulated UST | 8/10/1999	ENE	0.27 / 1,414.90	-4	<a href="#">166</a>
<a href="#">24</a>	DERR	Boehm Pressed Steel Co, Cleveland	2219 W 63rd St Cleveland OH 44102	ENE	0.27 / 1,414.90	-4	<a href="#">168</a>
<a href="#">24</a>	SEMS ARCHIVE	BOEHM PRESSED STEEL CO THE	2219 W 63RD ST CLEVELAND OH 44102  <i>EPA ID:</i> OHD004182069	ENE	0.27 / 1,414.90	-4	<a href="#">168</a>
<a href="#">25</a>	LUST	MEREX CORP.	3337 W 65TH ST CLEVELAND OH 44102  <i>Release No (OTTER):</i> 18004820-N00001 <i>Facility Status | LTF Status | Date Last Change:</i> Inactive | 6 Closure of regulated UST | 7/17/2012	SE	0.27 / 1,439.00	3	<a href="#">169</a>

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
<a href="#">26</a>	LUST	FORMER TRUCK TERMINAL	6601 STORER CLEVELAND OH 44102	SSE	0.27 / 1,439.23	9	<a href="#">170</a>
							<i>Release No (OTTER):</i> 18010257-N00001 <i>Facility Status | LTF Status | Date Last Change:</i> Inactive | 6 Closure of regulated UST | 5/28/2010
<a href="#">27</a>	LUST	AMKOR AUTO SERV (BP OIL #U0041)	6409 CLARK AVE CLEVELAND OH 44102	NE	0.27 / 1,449.50	-22	<a href="#">171</a>
							<i>Release No (OTTER):</i> 18010746-N00001 <i>Facility Status | LTF Status | Date Last Change:</i> Inactive | 1 SUS/CON from regulated UST | 9/18/2013
<a href="#">27</a>	LUST	East Ohio Gas Vault (Off-Site Impact)	6409 CLARK AVE CLEVELAND OH 44102	NE	0.27 / 1,449.50	-22	<a href="#">173</a>
							<i>Release No (OTTER):</i> 18010185-N00001 <i>Facility Status | LTF Status | Date Last Change:</i> Active | 1 SUS/CON from regulated UST | 5/28/2014
<a href="#">28</a>	DELISTED LST	AMKOR AUTO SERV	6409 CLARK AVE CLEVELAND OH 44102-5301	NE	0.28 / 1,482.46	-22	<a href="#">174</a>
<a href="#">28</a>	DELISTED LST	East Ohio Gas Vault (Off-Site Impact)	6409 CLARK AVE CLEVELAND OH 44102	NE	0.28 / 1,482.46	-22	<a href="#">175</a>
<a href="#">29</a>	LUST	FORMER SUNOCO 0001-7403	7403 DENISON AVE CLEVELAND OH 44101	SW	0.31 / 1,623.11	44	<a href="#">175</a>
							<i>Release No (OTTER):</i> 18010145-N00001 <i>Facility Status | LTF Status | Date Last Change:</i> Inactive | 1 SUS/CON from regulated UST | 4/9/2003
<a href="#">30</a>	LUST	FORMER 5 POINT AUTOBODY	6412 WALWORTH AVE CLEVELAND OH 44102	NE	0.32 / 1,710.12	-14	<a href="#">176</a>
							<i>Release No (OTTER):</i> 18010463-N00001 <i>Facility Status | LTF Status | Date Last Change:</i> Inactive | 6 Closure of regulated UST | 2/2/1998
<a href="#">31</a>	DELISTED LST	TECHNICAL PRODUCTS, INC.	3500 RIDGE RD CLEVELAND OH 44102	SW	0.33 / 1,741.26	28	<a href="#">178</a>
<a href="#">31</a>	LUST	TECHNICAL PRODUCTS, INC.	3500 RIDGE RD CLEVELAND OH 44102	SW	0.33 / 1,741.26	28	<a href="#">178</a>
<a href="#">32</a>	DERR	Max Hayes Technical School, Cleveland	2211 W 65th St W 65th St & Clark Ave Cleveland OH 44102-	NE	0.35 / 1,858.34	-10	<a href="#">179</a>
<a href="#">32</a>	VCP	Max Hayes Technical School, Cleveland	2211 W 65th St W 65th St & Clark Ave Cleveland OH 44102-	NE	0.35 / 1,858.34	-10	<a href="#">179</a>
<a href="#">32</a>	VAP CNS	Max Hayes Technical School, Cleveland	2211 West 65th St Cleveland OH	NE	0.35 / 1,858.34	-10	<a href="#">180</a>
<a href="#">32</a>	INST	Max Hayes Technical School, Cleveland	2211 W 65th St Cleveland OH 44102-	NE	0.35 / 1,858.34	-10	<a href="#">180</a>

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number	
<a href="#">33</a>	LUST	STORER GAS	6225 STORER AVE CLEVELAND OH 44102	SE	0.38 / 1,981.20	5	<a href="#">181</a>	
			<b>Release No (OTTER):</b> 18008369-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Active | 1 SUS/CON from regulated UST | 9/28/2015					
<a href="#">33</a>	DELISTED LST	ONE STOP SUNOCO #1	6225 STORER AVE CLEVELAND OH 44102	SE	0.38 / 1,981.20	5	<a href="#">183</a>	
<a href="#">34</a>	LUST	U HAUL CO.	6000 CLARK AVE CLEVELAND OH 44102-4495	ENE	0.39 / 2,079.40	-11	<a href="#">183</a>	
			<b>Release No (OTTER):</b> 18000528-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 3/30/1993					
<a href="#">34</a>	LUST	U HAUL CO.	6000 CLARK AVE CLEVELAND OH 44102-4495	ENE	0.39 / 2,079.40	-11	<a href="#">184</a>	
			<b>Release No (OTTER):</b> 18000528-N00002 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 1 SUS/CON from regulated UST | 7/8/2009					
<a href="#">35</a>	LUST	BLECKRIE, INC.	7810 LORAIN AVE CLEVELAND OH 44102	NNW	0.39 / 2,084.88	-5	<a href="#">185</a>	
			<b>Release No (OTTER):</b> 18002458-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Active | 1 SUS/CON from regulated UST | 1/4/2013					
<a href="#">35</a>	DELISTED LST	BLECKRIE, INC.	7810 LORAIN AVE CLEVELAND OH 44102	NNW	0.39 / 2,084.88	-5	<a href="#">187</a>	
<a href="#">36</a>	LUST	GAS USA HANINI 7 OIL INC	6501 DENISON AVE CLEVELAND OH 44102	SSE	0.42 / 2,236.22	37	<a href="#">187</a>	
			<b>Release No (OTTER):</b> 18002181-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 1 SUS/CON from regulated UST | 8/27/2003					
<a href="#">36</a>	LUST	GAS USA HANINI 7 OIL INC	6501 DENISON AVE CLEVELAND OH 44102	SSE	0.42 / 2,236.22	37	<a href="#">188</a>	
			<b>Release No (OTTER):</b> 18002181-N00002 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 11/8/2005					
<a href="#">37</a>	LUST	FORMER FORMAN DRY CLEANING	6110 WALWORTH AVE CLEVELAND OH 44102	NE	0.42 / 2,236.61	-23	<a href="#">190</a>	
			<b>Release No (OTTER):</b> 18009311-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Active | 6 Closure of regulated UST | 10/1/2015					
<a href="#">37</a>	DELISTED LST	FORMER FORMAN DRY CLEANING	6110 WALWORTH AVE CLEVELAND OH 44102	NE	0.42 / 2,236.61	-23	<a href="#">191</a>	
<a href="#">38</a>	LUST	NADIA OIL LLC	7310 LORAIN AVE CLEVELAND OH 44102	N	0.43 / 2,244.43	0	<a href="#">192</a>	
			<b>Release No (OTTER):</b> 18001610-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 1 SUS/CON from regulated UST | 1/23/1995					
<a href="#">38</a>	LUST	NADIA OIL LLC	7310 LORAIN AVE CLEVELAND OH 44102	N	0.43 / 2,244.43	0	<a href="#">193</a>	
			<b>Release No (OTTER):</b> 18001610-N00002 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 1 SUS/CON from regulated UST | 9/30/2003					

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
<a href="#">38</a>	LUST	NADIA OIL LLC	7310 LORAIN AVE CLEVELAND OH 44102	N	0.43 / 2,244.43	0	<a href="#">194</a>
							<i>Release No (OTTER): 18001610-N00003</i> <i>Facility Status | LTF Status | Date Last Change: Inactive | 1 SUS/CON from regulated UST | 8/22/2011</i>
<a href="#">38</a>	LUST	NADIA OIL LLC	7310 LORAIN AVE CLEVELAND OH 44102	N	0.43 / 2,244.43	0	<a href="#">196</a>
							<i>Release No (OTTER): 18001610-N00004</i> <i>Facility Status | LTF Status | Date Last Change: Inactive | 6 Closure of regulated UST | 4/5/1999</i>
<a href="#">39</a>	LUST	AMES ZAYRE 2337	3565 RIDGE RD CLEVELAND OH 44102	SSW	0.43 / 2,246.51	29	<a href="#">197</a>
							<i>Release No (OTTER): 18010564-N00001</i> <i>Facility Status | LTF Status | Date Last Change: Inactive | 1 SUS/CON from regulated UST | 8/17/1993</i>
<a href="#">40</a>	LUST	ODOT PROPERTY	6100 WALWORTH AVE CLEVELAND OH 44102	NE	0.43 / 2,254.62	-23	<a href="#">198</a>
							<i>Release No (OTTER): 18000819-N00001</i> <i>Facility Status | LTF Status | Date Last Change: Inactive | 6 Closure of regulated UST | 3/31/2000</i>
<a href="#">41</a>	DELISTED LST	N & S AUTO SALES, INC	7200 LORAIN AVE CLEVELAND OH 44102	N	0.43 / 2,266.36	-1	<a href="#">200</a>
<a href="#">41</a>	LUST	N & S AUTO SALES, INC	7200 LORAIN AVE CLEVELAND OH 44102	N	0.43 / 2,266.36	-1	<a href="#">200</a>
<a href="#">42</a>	LUST	TEND R LEAN STEAK CO	7106 LORAIN AVE CLEVELAND OH 44113	N	0.44 / 2,299.15	-2	<a href="#">201</a>
							<i>Release No (OTTER): 18002568-N00001</i> <i>Facility Status | LTF Status | Date Last Change: Inactive | 6 Closure of regulated UST | 5/21/1997</i>
<a href="#">43</a>	LUST	Prime 3580 Ridge LLC	3580 RIDGE RD BROOKLYN OH 44102	SSW	0.44 / 2,300.93	27	<a href="#">202</a>
							<i>Release No (OTTER): 18001293-N00001</i> <i>Facility Status | LTF Status | Date Last Change: Inactive | 1 SUS/CON from regulated UST | 12/15/1995</i>
<a href="#">43</a>	DELISTED LST	Prime 3580 Ridge LLC	3580 RIDGE RD BROOKLYN OH 44102	SSW	0.44 / 2,300.93	27	<a href="#">204</a>
<a href="#">43</a>	LUST	Prime 3580 Ridge LLC	3580 RIDGE RD BROOKLYN OH 44102	SSW	0.44 / 2,300.93	27	<a href="#">204</a>
							<i>Release No (OTTER): 18001293-N00002</i> <i>Facility Status | LTF Status | Date Last Change: Active | 1 SUS/CON from regulated UST | 12/7/2021</i>
<a href="#">43</a>	LUST	Prime 3580 Ridge LLC	3580 RIDGE RD BROOKLYN OH 44102	SSW	0.44 / 2,300.93	27	<a href="#">205</a>
							<i>Release No (OTTER): 18001293-N00003</i> <i>Facility Status | LTF Status | Date Last Change: Active | 1 SUS/CON from regulated UST | 12/7/2021</i>
<a href="#">44</a>	LUST	MARS CARS	6409 DENNISON AVE CLEVELAND OH 44105	SSE	0.44 / 2,326.79	37	<a href="#">206</a>
							<i>Release No (OTTER): 18000848-N00001</i> <i>Facility Status | LTF Status | Date Last Change: Inactive | 6 Closure of regulated UST | 6/14/2000</i>
<a href="#">45</a>	LUST	REDDEN AUTO BODY	8116 LORAIN AVE CLEVELAND OH 44113	NW	0.46 / 2,417.68	1	<a href="#">208</a>

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number	
			<b>Release No (OTTER):</b> 18002554-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 11/16/1996					
<a href="#">46</a>	LUST	PARMA MOVERS, INC.	3584 W 67TH ST CLEVELAND OH 44102	S	0.46 / 2,449.56	19	<a href="#">209</a>	
			<b>Release No (OTTER):</b> 18007990-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 1 SUS/CON from regulated UST | 6/27/1995					
<a href="#">47</a>	LUST	RALF'S AUTO SERVICE	8606 DENNISON AVE CLEVELAND OH 44102	WSW	0.47 / 2,492.29	41	<a href="#">210</a>	
			<b>Release No (OTTER):</b> 18010613-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 1 SUS/CON from regulated UST | 10/31/1991					
<a href="#">48</a>	LUST	B & B WRECKING & EXCAVATING	5801 TRAIN AVE CLEVELAND OH 44102	ENE	0.48 / 2,554.91	-10	<a href="#">212</a>	
			<b>Release No (OTTER):</b> 18009153-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 1 SUS/CON from regulated UST | 10/2/1992					
<a href="#">48</a>	LUST	B & B WRECKING & EXCAVATING	5801 TRAIN AVE CLEVELAND OH 44102	ENE	0.48 / 2,554.91	-10	<a href="#">213</a>	
			<b>Release No (OTTER):</b> 18009153-N00002 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 11/18/1999					
<a href="#">49</a>	FED BROWNFIELDS	11623 Lake Avenue	7500 Elton Ct Cleveland OH 44102	NNW	0.49 / 2,594.03	-2	<a href="#">214</a>	
			<b>Property ID:</b> 12635					
<a href="#">49</a>	FED BROWNFIELDS	11209-11405 Kinsman Property #1	7500 Elton Ct Cleveland OH 44102	NNW	0.49 / 2,594.03	-2	<a href="#">218</a>	
			<b>Property ID:</b> 12636					
<a href="#">49</a>	FED BROWNFIELDS	11209-11405 Kinsman Property #2	7500 Elton Ct Cleveland OH 44102	NNW	0.49 / 2,594.03	-2	<a href="#">221</a>	
			<b>Property ID:</b> 12637					
<a href="#">49</a>	FED BROWNFIELDS	8001-8205 Franklin Blvd.	7500 Elton Ct Cleveland OH 44102	NNW	0.49 / 2,594.03	-2	<a href="#">224</a>	
			<b>Property ID:</b> 12638					
<a href="#">50</a>	DELISTED LST	OHIO & WEST PENN DOCK CO	W 58TH ST CLEVELAND OH 44102	N	0.49 / 2,597.09	-2	<a href="#">227</a>	
<a href="#">50</a>	DELISTED LST	OHIO & WEST PENN DOCK CO	W 58TH ST CLEVELAND OH 44102	N	0.49 / 2,597.09	-2	<a href="#">228</a>	
<a href="#">50</a>	DELISTED LST	OHIO & WEST PENN DOCK CO	W 58TH ST CLEVELAND OH 44102	N	0.49 / 2,597.09	-2	<a href="#">228</a>	
<a href="#">51</a>	DERR	Emeral Alliance VII, Cleveland	9431 Lorain Ave & 3147 W 95th St Cleveland OH 44114-	W	0.73 / 3,852.49	9	<a href="#">228</a>	

<b>Map Key</b>	<b>DB</b>	<b>Company/Site Name</b>	<b>Address</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev Diff (ft)</b>	<b>Page Number</b>
<a href="#">52</a>	DERR	Midnight Dump 58th St, Cleveland	W 58th St Cleveland OH 44102	NE	0.77 / 4,077.63	-11	<a href="#">229</a>
<a href="#">53</a>	DERR	Joseph & Feiss/Hugo Boss Property, Cleveland	2149 W 53rd St Cleveland OH 44120-	ENE	0.80 / 4,198.82	-30	<a href="#">230</a>
<a href="#">54</a>	RCRA CORRACTS	FOREST CITY JOINT VENTURE	9401 MAYWOOD AVE CLEVELAND OH 44102  <i>EPA Handler ID: OHD982646010</i>	WSW	0.80 / 4,248.66	38	<a href="#">230</a>
<a href="#">55</a>	DERR	2003 W 58th St Abandoned Drums Vacant Lot, Cleveland	2003 W 58th St Cleveland OH 44102	NE	0.81 / 4,256.74	-14	<a href="#">235</a>
<a href="#">56</a>	RCRA CORRACTS	CONTAINER COMPLIANCE CORPORATION	5151 DENISON AVE CLEVELAND OH 44102  <i>EPA Handler ID: OHD060431947</i>	SE	0.83 / 4,406.13	17	<a href="#">235</a>
<a href="#">56</a>	DERR	Parr Inc West, Cleveland - Denison Ave	5151 Denison Ave Cleveland OH 44102	SE	0.83 / 4,406.13	17	<a href="#">294</a>
<a href="#">57</a>	DERR	Ameri-Con Ashbury, Cleveland	4721-4805 Fenwick Ave Cleveland OH 44102	ENE	0.87 / 4,585.60	-20	<a href="#">295</a>
<a href="#">58</a>	DERR	8001 Franklin Ave, Cleveland	8001 Franklin Ave Cleveland OH 44102-2831	NNW	0.89 / 4,720.42	-27	<a href="#">295</a>
<a href="#">59</a>	DERR	Tradex Pkwy Site, Cleveland	5250 Tradex Parkway Cleveland OH 44102-	SE	0.94 / 4,939.09	4	<a href="#">296</a>
<a href="#">60</a>	DERR	A Classic Steel Treating Inc former, Cleveland	9106 Madison Ave Cleveland OH 44102-2717	NW	0.99 / 5,209.69	-25	<a href="#">296</a>

## Executive Summary: Summary by Data Source

### **Standard**

#### **Federal**

##### **SEMS - SEMS List 8R Active Site Inventory**

A search of the SEMS database, dated Nov 23, 2022 has found that there are 1 SEMS site(s) within approximately 0.50 miles of the project property.

<b><u>Equal/Higher Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (mi/ft)</u></b>	<b><u>Map Key</u></b>
FLUORESCENT RECYCLING	7260 Neville Ave CLEVELAND OH 44102  <i>EPA ID: OHN000507862</i>	WSW	0.14 / 738.34	<a href="#"><u>9</u></a>

##### **SEMS ARCHIVE - SEMS List 8R Archive Sites**

A search of the SEMS ARCHIVE database, dated Nov 23, 2022 has found that there are 3 SEMS ARCHIVE site(s) within approximately 0.50 miles of the project property.

<b><u>Equal/Higher Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (mi/ft)</u></b>	<b><u>Map Key</u></b>
SIMKINS INDUSTRIES	7275 WENTWORTH AVENUE CLEVELAND OH 44102  <i>EPA ID: OHD097623961</i>	SW	0.02 / 92.32	<a href="#"><u>4</u></a>

<b><u>Lower Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (mi/ft)</u></b>	<b><u>Map Key</u></b>
SWIFT COMPANY	3229 WEST 65TH STREET CLEVELAND OH 44114  <i>EPA ID: OHD987015526</i>	E	0.17 / 921.59	<a href="#"><u>12</u></a>
BOEHM PRESSED STEEL CO THE	2219 W 63RD ST CLEVELAND OH 44102  <i>EPA ID: OHD004182069</i>	ENE	0.27 / 1,414.90	<a href="#"><u>24</u></a>

##### **CERCLIS - Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS**

A search of the CERCLIS database, dated Oct 25, 2013 has found that there are 3 CERCLIS site(s) within approximately 0.50 miles of the project property.

<b><u>Equal/Higher Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (mi/ft)</u></b>	<b><u>Map Key</u></b>
SIMKINS INDUSTRIES	7275 WENTWORTH AVENUE CLEVELAND OH 44102  <i>Site EPA ID: OHD097623961</i>	SW	0.02 / 92.32	<a href="#"><u>4</u></a>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SWIFT COMPANY	3229 WEST 65TH STREET CLEVELAND OH 44114	E	0.17 / 921.59	<a href="#">12</a>
	<i>Site EPA ID: OHD987015526</i>			
BOEHM PRESSED STEEL CO THE	2219 W 63RD ST CLEVELAND OH 44102	ENE	0.27 / 1,414.90	<a href="#">24</a>
	<i>Site EPA ID: OHD004182069</i>			

### **CERCLIS NFRAP - CERCLIS - No Further Remedial Action Planned**

A search of the CERCLIS NFRAP database, dated Oct 25, 2013 has found that there are 3 CERCLIS NFRAP site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SIMKINS INDUSTRIES	7275 WENTWORTH AVENUE CLEVELAND OH 44102	SW	0.02 / 92.32	<a href="#">4</a>
	<i>Site EPA ID: OHD097623961</i>			

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SWIFT COMPANY	3229 WEST 65TH STREET CLEVELAND OH 44114	E	0.17 / 921.59	<a href="#">12</a>
	<i>Site EPA ID: OHD987015526</i>			
BOEHM PRESSED STEEL CO THE	2219 W 63RD ST CLEVELAND OH 44102	ENE	0.27 / 1,414.90	<a href="#">24</a>
	<i>Site EPA ID: OHD004182069</i>			

### **RCRA CORRACTS - RCRA CORRACTS-Corrective Action**

A search of the RCRA CORRACTS database, dated Sep 5, 2022 has found that there are 3 RCRA CORRACTS site(s) within approximately 1.00 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SIMKINS INDUSTRIES	7275 WENTWORTH AVE CLEVELAND OH 44102	SW	0.02 / 92.32	<a href="#">4</a>
	<i>EPA Handler ID: OHD097623961</i>			
FOREST CITY JOINT VENTURE	9401 MAYWOOD AVE CLEVELAND OH 44102	WSW	0.80 / 4,248.66	<a href="#">54</a>
	<i>EPA Handler ID: OHD982646010</i>			
CONTAINER COMPLIANCE CORPORATION	5151 DENISON AVE CLEVELAND OH 44102	SE	0.83 / 4,406.13	<a href="#">56</a>
	<i>EPA Handler ID: OHD060431947</i>			

### **RCRA VSQG - RCRA Very Small Quantity Generators List**

A search of the RCRA VSQG database, dated Sep 5, 2022 has found that there are 3 RCRA VSQG site(s) within approximately 0.25 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
KMART # 3292	3250 W 65TH STREET CLEVELAND OH 44102	ESE	0.10 / 546.11	<a href="#">6</a>
	<i>EPA Handler ID: OHR000153999</i>			
PARK OHIO PRODUCTS INC	7000 DENISON AVE CLEVELAND OH 44102	SSW	0.11 / 591.03	<a href="#">7</a>
	<i>EPA Handler ID: OHD980898175</i>			

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
DARLING INTERNATIONAL INC	3275 W 65TH ST CLEVELAND OH 44102	ESE	0.21 / 1,133.54	<a href="#">15</a>
	<i>EPA Handler ID: OHR000042374</i>			

### **RCRA NON GEN - RCRA Non-Generators**

A search of the RCRA NON GEN database, dated Sep 5, 2022 has found that there are 4 RCRA NON GEN site(s) within approximately 0.25 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
AMERICAN RECYCLING COMPANY INC	3203 W 71ST ST CLEVELAND OH 44102	ENE	0.00 / 0.00	<a href="#">2</a>
	<i>EPA Handler ID: OHD000720110</i>			
SIMKINS INDUSTRIES	7275 WENTWORTH AVE CLEVELAND OH 44102	SW	0.02 / 92.32	<a href="#">4</a>
	<i>EPA Handler ID: OHD097623961</i>			
LAMSON & SESSIONS CO THE	7000 DENISON AVE CLEVELAND OH 44102	SSW	0.11 / 591.03	<a href="#">7</a>
	<i>EPA Handler ID: OHD092621002</i>			
FLUORESCENT RECYCLING INC	7260 NEVILLE AVE CLEVELAND OH 44118	WSW	0.14 / 738.34	<a href="#">9</a>
	<i>EPA Handler ID: OHR000173047</i>			

### **FED BROWNFIELDS - The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database**

A search of the FED BROWNFIELDS database, dated Sep 13, 2022 has found that there are 7 FED BROWNFIELDS site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Artspace @ Stockyards	7275 Wentworth Avenue Cleveland OH 44102	SW	0.02 / 92.32	<a href="#">4</a>
	<i>Property ID: 15585</i>			
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
West 65th Street Equity Partners	West 65th Street and West 67th Place Cleveland OH 44102	E	0.17 / 909.31	<a href="#">11</a>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	<i>Property ID: 12633</i>			
Pilsner Square 6605 Clark	6605 Clark Ave. CLEVELAND OH 44102	NE	0.23 / 1,196.57	<a href="#">17</a>
	<i>Property ID: 250537</i>			
11209-11405 Kinsman Property #1	7500 Elton Ct Cleveland OH 44102	NNW	0.49 / 2,594.03	<a href="#">49</a>
	<i>Property ID: 12636</i>			
11209-11405 Kinsman Property #2	7500 Elton Ct Cleveland OH 44102	NNW	0.49 / 2,594.03	<a href="#">49</a>
	<i>Property ID: 12637</i>			
8001-8205 Franklin Blvd.	7500 Elton Ct Cleveland OH 44102	NNW	0.49 / 2,594.03	<a href="#">49</a>
	<i>Property ID: 12638</i>			
11623 Lake Avenue	7500 Elton Ct Cleveland OH 44102	NNW	0.49 / 2,594.03	<a href="#">49</a>
	<i>Property ID: 12635</i>			

## State

### DERR - Division of Environmental Response & Revitalization Database

A search of the DERR database, dated Oct 13, 2022 has found that there are 15 DERR site(s) within approximately 1.00 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Simkins Ind, Cleveland	7275 Wentworth Ave Cleveland OH 44102	SW	0.02 / 92.32	<a href="#">4</a>
Cleveland City of Inner West Side Area USD	OH	ESE	0.13 / 685.12	<a href="#">8</a>
Emeral Alliance VII, Cleveland	9431 Lorain Ave & 3147 W 95th St Cleveland OH 44114-	W	0.73 / 3,852.49	<a href="#">51</a>
Parr Inc West, Cleveland - Denison Ave	5151 Denison Ave Cleveland OH 44102	SE	0.83 / 4,406.13	<a href="#">56</a>
Tradex Pkwy Site, Cleveland	5250 Tradex Parkway Cleveland OH 44102-	SE	0.94 / 4,939.09	<a href="#">59</a>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Swift Co, Cleveland	3229 W 65th St Cleveland OH 44114	E	0.17 / 921.59	<a href="#">12</a>
Wire Net, Cleveland	Corner of Walworth Ave & W 65th St Cleveland OH 44102	NE	0.26 / 1,394.47	<a href="#">23</a>
Boehm Pressed Steel Co, Cleveland	2219 W 63rd St Cleveland OH 44102	ENE	0.27 / 1,414.90	<a href="#">24</a>
Max Hayes Technical School, Cleveland	2211 W 65th St W 65th St & Clark Ave Cleveland OH 44102-	NE	0.35 / 1,858.34	<a href="#">32</a>
Midnight Dump 58th St, Cleveland	W 58th St Cleveland OH 44102	NE	0.77 / 4,077.63	<a href="#">52</a>
Joseph & Feiss/Hugo Boss Property, Cleveland	2149 W 53rd St Cleveland OH 44120-	ENE	0.80 / 4,198.82	<a href="#">53</a>
2003 W 58th St Abandoned Drums Vacant Lot, Cleveland	2003 W 58th St Cleveland OH 44102	NE	0.81 / 4,256.74	<a href="#">55</a>
Ameri-Con Ashbury, Cleveland	4721-4805 Fenwick Ave Cleveland OH 44102	ENE	0.87 / 4,585.60	<a href="#">57</a>
8001 Franklin Ave, Cleveland	8001 Franklin Ave Cleveland OH 44102-2831	NNW	0.89 / 4,720.42	<a href="#">58</a>
A Classic Steel Treating Inc former, Cleveland	9106 Madison Ave Cleveland OH 44102-2717	NW	0.99 / 5,209.69	<a href="#">60</a>

### **LUST - Ohio Leaking Underground Storage Tanks (LUST)**

A search of the LUST database, dated Oct 4, 2022 has found that there are 44 LUST site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SHAKER VALLEY FOODS	3304 W 67TH PL CLEVELAND OH 44128	SSE	0.07 / 383.88	<a href="#">5</a>

**Release No (OTTER):** 18010422-N00001  
**Facility Status | LTF Status | Date Last Change:** Inactive | 6 Closure of regulated UST | 12/26/2001

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
KMART #3292	3250 W 65TH ST CLEVELAND OH 44102	ESE	0.10 / 546.11	<a href="#">6</a>
R B & W CORP.	7000 DENISON VE CLEVELAND OH 44102	SSW	0.11 / 591.03	<a href="#">7</a>
	<b>Release No (OTTER): 18008341-N00001</b> <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 1 SUS/CON from regulated UST | 5/7/1999			
DE ROSE CO	3345 W 67TH ST CLEVELAND OH 44102	SSE	0.15 / 812.53	<a href="#">10</a>
ACTION AUTO SERVICE	7050 DENNISON AVE CLEVELAND OH 44114	SSW	0.24 / 1,260.42	<a href="#">18</a>
	<b>Release No (OTTER): 18003232-N00001</b> <b>Facility Status | LTF Status | Date Last Change:</b> Active | 1 SUS/CON from regulated UST | 7/11/2012			
DENNISON CARE	6918 DENISON AVE CLEVELAND OH 44102	SSW	0.25 / 1,299.72	<a href="#">19</a>
	<b>Release No (OTTER): 18009772-N00001</b> <b>Facility Status | LTF Status | Date Last Change:</b> Active | 1 SUS/CON from regulated UST | 4/20/2015			
TRAVEL-RITE	3316 WEST 65TH STREET CLEVELAND OH 44102	SE	0.25 / 1,313.38	<a href="#">20</a>
	<b>Release No (OTTER): 18000153-N00001</b> <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 10/21/1999			
MEREX CORP.	3337 W 65TH ST CLEVELAND OH 44102	SE	0.27 / 1,439.00	<a href="#">25</a>
	<b>Release No (OTTER): 18004820-N00001</b> <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 7/17/2012			
FORMER TRUCK TERMINAL	6601 STORER CLEVELAND OH 44102	SSE	0.27 / 1,439.23	<a href="#">26</a>
	<b>Release No (OTTER): 18010257-N00001</b> <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 5/28/2010			
FORMER SUNOCO 0001-7403	7403 DENISON AVE CLEVELAND OH 44101	SW	0.31 / 1,623.11	<a href="#">29</a>
	<b>Release No (OTTER): 18010145-N00001</b> <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 1 SUS/CON from regulated UST | 4/9/2003			
TECHNICAL PRODUCTS, INC.	3500 RIDGE RD CLEVELAND OH 44102	SW	0.33 / 1,741.26	<a href="#">31</a>
STORER GAS	6225 STORER AVE CLEVELAND OH 44102	SE	0.38 / 1,981.20	<a href="#">33</a>
	<b>Release No (OTTER): 18008369-N00001</b> <b>Facility Status | LTF Status | Date Last Change:</b> Active | 1 SUS/CON from regulated UST | 9/28/2015			
GAS USA HANINI 7 OIL INC	6501 DENISON AVE CLEVELAND OH 44102	SSE	0.42 / 2,236.22	<a href="#">36</a>
	<b>Release No (OTTER): 18002181-N00001</b> <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 1 SUS/CON from regulated UST | 8/27/2003			

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
GAS USA HANINI 7 OIL INC	6501 DENISON AVE CLEVELAND OH 44102	SSE	0.42 / 2,236.22	<a href="#">36</a>
	<b>Release No (OTTER):</b> 18002181-N00002 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 11/8/2005			
AMES ZAYRE 2337	3565 RIDGE RD CLEVELAND OH 44102	SSW	0.43 / 2,246.51	<a href="#">39</a>
	<b>Release No (OTTER):</b> 18010564-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 1 SUS/CON from regulated UST | 8/17/1993			
Prime 3580 Ridge LLC	3580 RIDGE RD BROOKLYN OH 44102	SSW	0.44 / 2,300.93	<a href="#">43</a>
	<b>Release No (OTTER):</b> 18001293-N00002 <b>Facility Status | LTF Status | Date Last Change:</b> Active | 1 SUS/CON from regulated UST | 12/7/2021			
Prime 3580 Ridge LLC	3580 RIDGE RD BROOKLYN OH 44102	SSW	0.44 / 2,300.93	<a href="#">43</a>
	<b>Release No (OTTER):</b> 18001293-N00003 <b>Facility Status | LTF Status | Date Last Change:</b> Active | 1 SUS/CON from regulated UST | 12/7/2021			
Prime 3580 Ridge LLC	3580 RIDGE RD BROOKLYN OH 44102	SSW	0.44 / 2,300.93	<a href="#">43</a>
	<b>Release No (OTTER):</b> 18001293-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 1 SUS/CON from regulated UST | 12/15/1995			
MARS CARS	6409 DENNISON AVE CLEVELAND OH 44105	SSE	0.44 / 2,326.79	<a href="#">44</a>
	<b>Release No (OTTER):</b> 18000848-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 6/14/2000			
REDDEN AUTO BODY	8116 LORAIN AVE CLEVELAND OH 44113	NW	0.46 / 2,417.68	<a href="#">45</a>
	<b>Release No (OTTER):</b> 18002554-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 11/16/1996			
PARMA MOVERS, INC.	3584 W 67TH ST CLEVELAND OH 44102	S	0.46 / 2,449.56	<a href="#">46</a>
	<b>Release No (OTTER):</b> 18007990-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 1 SUS/CON from regulated UST | 6/27/1995			
RALF'S AUTO SERVICE	8606 DENNISON AVE CLEVELAND OH 44102	WSW	0.47 / 2,492.29	<a href="#">47</a>
	<b>Release No (OTTER):</b> 18010613-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 1 SUS/CON from regulated UST | 10/31/1991			
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
AAROMET METALLICS	3207 WEST 65TH ST CLEVELAND OH 44102	E	0.19 / 1,000.78	<a href="#">13</a>
	<b>Release No (OTTER):</b> 18011172-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 4/18/2008			
HERB KAY CO., INC.	7300 CLARK AVE CLEVELAND OH 44102	NNW	0.20 / 1,077.66	<a href="#">14</a>
	<b>Release No (OTTER):</b> 18001006-N00001 <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 1 SUS/CON from regulated UST | 10/28/2020			

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
DARLING INTERNATIONAL INC	3275 W 65TH ST CLEVELAND OH 44102	ESE	0.21 / 1,133.54	<a href="#">15</a>
	<b>Release No (OTTER): 18008039-N00001</b> <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 1/11/1994			
DARLING INTERNATIONAL INC	3275 W 65TH ST CLEVELAND OH 44102	ESE	0.21 / 1,133.54	<a href="#">15</a>
	<b>Release No (OTTER): 18008039-N00002</b> <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 7/12/2011			
ARCHITECTURAL PRODUCTS	6605 CLARK AVE CLEVELAND OH 44102	NE	0.21 / 1,133.84	<a href="#">16</a>
	<b>Release No (OTTER): 18008346-N00001</b> <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 9/16/1999			
FORMER BOEHM PRESSED STEEL	2219 W 63RD ST CLEVELAND OH 44102	ENE	0.27 / 1,414.90	<a href="#">24</a>
	<b>Release No (OTTER): 18002334-N00001</b> <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 1 SUS/CON from regulated UST | 8/10/1999			
AMKOR AUTO SERV (BP OIL #U0041)	6409 CLARK AVE CLEVELAND OH 44102	NE	0.27 / 1,449.50	<a href="#">27</a>
	<b>Release No (OTTER): 18010746-N00001</b> <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 1 SUS/CON from regulated UST | 9/18/2013			
East Ohio Gas Vault (Off-Site Impact)	6409 CLARK AVE CLEVELAND OH 44102	NE	0.27 / 1,449.50	<a href="#">27</a>
	<b>Release No (OTTER): 18010185-N00001</b> <b>Facility Status | LTF Status | Date Last Change:</b> Active | 1 SUS/CON from regulated UST | 5/28/2014			
FORMER 5 POINT AUTOBODY	6412 WALWORTH AVE CLEVELAND OH 44102	NE	0.32 / 1,710.12	<a href="#">30</a>
	<b>Release No (OTTER): 18010463-N00001</b> <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 2/2/1998			
U HAUL CO.	6000 CLARK AVE CLEVELAND OH 44102-4495	ENE	0.39 / 2,079.40	<a href="#">34</a>
	<b>Release No (OTTER): 18000528-N00001</b> <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 6 Closure of regulated UST | 3/30/1993			
U HAUL CO.	6000 CLARK AVE CLEVELAND OH 44102-4495	ENE	0.39 / 2,079.40	<a href="#">34</a>
	<b>Release No (OTTER): 18000528-N00002</b> <b>Facility Status | LTF Status | Date Last Change:</b> Inactive | 1 SUS/CON from regulated UST | 7/8/2009			
BLECKRIE, INC.	7810 LORAIN AVE CLEVELAND OH 44102	NNW	0.39 / 2,084.88	<a href="#">35</a>
	<b>Release No (OTTER): 18002458-N00001</b> <b>Facility Status | LTF Status | Date Last Change:</b> Active | 1 SUS/CON from regulated UST | 1/4/2013			
FORMER FORMAN DRY CLEANING	6110 WALWORTH AVE CLEVELAND OH 44102	NE	0.42 / 2,236.61	<a href="#">37</a>
	<b>Release No (OTTER): 18009311-N00001</b> <b>Facility Status | LTF Status | Date Last Change:</b> Active | 6 Closure of regulated UST | 10/1/2015			

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
NADIA OIL LLC	7310 LORAIN AVE CLEVELAND OH 44102	N	0.43 / 2,244.43	<a href="#">38</a>
<i>Release No (OTTER): 18001610-N00001</i> <i>Facility Status | LTF Status | Date Last Change: Inactive | 1 SUS/CON from regulated UST | 1/23/1995</i>				
NADIA OIL LLC	7310 LORAIN AVE CLEVELAND OH 44102	N	0.43 / 2,244.43	<a href="#">38</a>
<i>Release No (OTTER): 18001610-N00002</i> <i>Facility Status | LTF Status | Date Last Change: Inactive | 1 SUS/CON from regulated UST | 9/30/2003</i>				
NADIA OIL LLC	7310 LORAIN AVE CLEVELAND OH 44102	N	0.43 / 2,244.43	<a href="#">38</a>
<i>Release No (OTTER): 18001610-N00003</i> <i>Facility Status | LTF Status | Date Last Change: Inactive | 1 SUS/CON from regulated UST | 8/22/2011</i>				
NADIA OIL LLC	7310 LORAIN AVE CLEVELAND OH 44102	N	0.43 / 2,244.43	<a href="#">38</a>
<i>Release No (OTTER): 18001610-N00004</i> <i>Facility Status | LTF Status | Date Last Change: Inactive | 6 Closure of regulated UST | 4/5/1999</i>				
ODOT PROPERTY	6100 WALWORTH AVE CLEVELAND OH 44102	NE	0.43 / 2,254.62	<a href="#">40</a>
<i>Release No (OTTER): 18000819-N00001</i> <i>Facility Status | LTF Status | Date Last Change: Inactive | 6 Closure of regulated UST | 3/31/2000</i>				
N & S AUTO SALES, INC	7200 LORAIN AVE CLEVELAND OH 44102	N	0.43 / 2,266.36	<a href="#">41</a>
TEND R LEAN STEAK CO	7106 LORAIN AVE CLEVELAND OH 44113	N	0.44 / 2,299.15	<a href="#">42</a>
<i>Release No (OTTER): 18002568-N00001</i> <i>Facility Status | LTF Status | Date Last Change: Inactive | 6 Closure of regulated UST | 5/21/1997</i>				
B & B WRECKING & EXCAVATING	5801 TRAIN AVE CLEVELAND OH 44102	ENE	0.48 / 2,554.91	<a href="#">48</a>
<i>Release No (OTTER): 18009153-N00001</i> <i>Facility Status | LTF Status | Date Last Change: Inactive | 1 SUS/CON from regulated UST | 10/2/1992</i>				
B & B WRECKING & EXCAVATING	5801 TRAIN AVE CLEVELAND OH 44102	ENE	0.48 / 2,554.91	<a href="#">48</a>
<i>Release No (OTTER): 18009153-N00002</i> <i>Facility Status | LTF Status | Date Last Change: Inactive | 6 Closure of regulated UST | 11/18/1999</i>				

### **DELISTED LST - Delisted Petroleum Release List**

A search of the DELISTED LST database, dated Oct 4, 2022 has found that there are 15 DELISTED LST site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
KMART #3292	3250 W 65TH ST CLEVELAND OH 44102	ESE	0.10 / 546.11	<a href="#">6</a>

<b><u>Equal/Higher Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (mi/ft)</u></b>	<b><u>Map Key</u></b>
DE ROSE CO	3345 W 67TH ST CLEVELAND OH 44102	SSE	0.15 / 812.53	<a href="#"><u>10</u></a>
ACTION AUTO SERVICE	7050 DENNISON AVE CLEVELAND OH 44114	SSW	0.25 / 1,320.02	<a href="#"><u>21</u></a>
DENNISON CARE	6918 DENISON AVE CLEVELAND OH 44102	SSW	0.26 / 1,391.15	<a href="#"><u>22</u></a>
TECHNICAL PRODUCTS, INC.	3500 RIDGE RD CLEVELAND OH 44102	SW	0.33 / 1,741.26	<a href="#"><u>31</u></a>
ONE STOP SUNOCO #1	6225 STORER AVE CLEVELAND OH 44102	SE	0.38 / 1,981.20	<a href="#"><u>33</u></a>
Prime 3580 Ridge LLC	3580 RIDGE RD BROOKLYN OH 44102	SSW	0.44 / 2,300.93	<a href="#"><u>43</u></a>
<b><u>Lower Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (mi/ft)</u></b>	<b><u>Map Key</u></b>
AMKOR AUTO SERV	6409 CLARK AVE CLEVELAND OH 44102-5301	NE	0.28 / 1,482.46	<a href="#"><u>28</u></a>
East Ohio Gas Vault (Off-Site Impact)	6409 CLARK AVE CLEVELAND OH 44102	NE	0.28 / 1,482.46	<a href="#"><u>28</u></a>
BLECKRIE, INC.	7810 LORAIN AVE CLEVELAND OH 44102	NNW	0.39 / 2,084.88	<a href="#"><u>35</u></a>
FORMER FORMAN DRY CLEANING	6110 WALWORTH AVE CLEVELAND OH 44102	NE	0.42 / 2,236.61	<a href="#"><u>37</u></a>
N & S AUTO SALES, INC	7200 LORAIN AVE CLEVELAND OH 44102	N	0.43 / 2,266.36	<a href="#"><u>41</u></a>
OHIO & WEST PENN DOCK CO	W 58TH ST CLEVELAND OH 44102	N	0.49 / 2,597.09	<a href="#"><u>50</u></a>
OHIO & WEST PENN DOCK CO	W 58TH ST CLEVELAND OH 44102	N	0.49 / 2,597.09	<a href="#"><u>50</u></a>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
OHIO & WEST PENN DOCK CO	W 58TH ST CLEVELAND OH 44102	N	0.49 / 2,597.09	<a href="#">50</a>

### UST - Ohio Registered Underground Storage Tanks (UST)

A search of the UST database, dated Oct 4, 2022 has found that there are 11 UST site(s) within approximately 0.25 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SHAKER VALLEY FOODS	3304 W 67TH PL CLEVELAND OH 44128	SSE	0.07 / 383.88	<a href="#">5</a>
	<i>Fac No (OTTER): 18010422</i>			
	<i>Tank No | Status: T00001 | REM - Removed, T00002 | REM - Removed</i>			
KMART #3292	3250 W 65TH ST CLEVELAND OH 44102	ESE	0.10 / 546.11	<a href="#">6</a>
	<i>Fac No (OTTER): 18000311</i>			
	<i>Tank No | Status: T00001 | REM - Removed</i>			
R B & W CORP.	7000 DENISON VE CLEVELAND OH 44102	SSW	0.11 / 591.03	<a href="#">7</a>
	<i>Fac No (OTTER): 18008341</i>			
	<i>Tank No | Status: T00002 | REM - Removed, T00001 | REM - Removed, T00004 | REM - Removed, T00006 | REM - Removed, T00003 | REM - Removed, T00005 | REM - Removed</i>			
D. E. ROSE CO	3345 W 67TH ST CLEVELAND OH 44102	SSE	0.15 / 812.53	<a href="#">10</a>
	<i>Fac No (OTTER): 18010241</i>			
	<i>Tank No | Status: T00001 | REM - Removed</i>			
ACTION AUTO SERVICE	7050 DENNISON AVE CLEVELAND OH 44114	SSW	0.24 / 1,260.42	<a href="#">18</a>
	<i>Fac No (OTTER): 18003232</i>			
	<i>Tank No | Status: T00003 | REM - Removed, T00004 | REM - Removed, T00001 | REM - Removed, T00002 | REM - Removed</i>			
DENNISON CARE	6918 DENISON AVE CLEVELAND OH 44102	SSW	0.25 / 1,299.72	<a href="#">19</a>
	<i>Fac No (OTTER): 18009772</i>			
	<i>Tank No | Status: T00003 | REM - Removed, T00001 | REM - Removed, T00002 | REM - Removed</i>			
TRAVEL-RITE	3316 WEST 65TH STREET CLEVELAND OH 44102	SE	0.25 / 1,313.38	<a href="#">20</a>
	<i>Fac No (OTTER): 18000153</i>			
	<i>Tank No | Status: T00001 | REM - Removed</i>			
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
AAROMET METALLICS	3207 WEST 65TH ST CLEVELAND OH 44102	E	0.19 / 1,000.78	<a href="#">13</a>
	<i>Fac No (OTTER): 18011172</i>			
	<i>Tank No | Status: T00002 | REM - Removed, T00001 | REM - Removed</i>			

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
HERB KAY CO., INC.	7300 CLARK AVE CLEVELAND OH 44102	NNW	0.20 / 1,077.66	<a href="#">14</a>
	<i>Fac No (OTTER): 18001006</i> <i>Tank No | Status: T00005 | REM - Removed, T00003 | REM - Removed, T00002 | REM - Removed, T00004 | REM - Removed, T00001 | REM - Removed</i>			
DARLING INTERNATIONAL INC	3275 W 65TH ST CLEVELAND OH 44102	ESE	0.21 / 1,133.54	<a href="#">15</a>
	<i>Fac No (OTTER): 18008039</i> <i>Tank No | Status: T00001 | REM - Removed, T00003 | REM - Removed, T00004 | REM - Removed, T00002 | REM - Removed</i>			
ARCHITECTURAL PRODUCTS	6605 CLARK AVE CLEVELAND OH 44102	NE	0.21 / 1,133.84	<a href="#">16</a>
	<i>Fac No (OTTER): 18008346</i> <i>Tank No | Status: T00002 | REM - Removed, T00001 | REM - Removed</i>			

### INST - Institutional Controls

A search of the INST database, dated Oct 13, 2022 has found that there are 2 INST site(s) within approximately 0.50 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Wire Net, Cleveland	*Corner of Walworth Ave & W 65th St Cleveland OH 44102	NE	0.26 / 1,394.47	<a href="#">23</a>
Max Hayes Technical School, Cleveland	2211 W 65th St Cleveland OH 44102-	NE	0.35 / 1,858.34	<a href="#">32</a>

### VCP - Voluntary Action Program Sites

A search of the VCP database, dated Oct 13, 2022 has found that there are 3 VCP site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Cleveland City of Inner West Side Area USD	!FILL! !FILL! OH !FILL!	ESE	0.13 / 685.12	<a href="#">8</a>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Wire Net, Cleveland	*Corner of Walworth Ave & W 65th St Cleveland OH 44102	NE	0.26 / 1,394.47	<a href="#">23</a>
Max Hayes Technical School, Cleveland	2211 W 65th St W 65th St & Clark Ave Cleveland OH 44102-	NE	0.35 / 1,858.34	<a href="#">32</a>

### VAP CNS - Covenants Not to Sue Sites

A search of the VAP CNS database, dated Sep 1, 2021 has found that there are 2 VAP CNS site(s) within approximately 0.50 miles of the project property.

<b><u>Lower Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (mi/ft)</u></b>	<b><u>Map Key</u></b>
Wire Net, Cleveland	*Corner of Walworth Ave & W 65th St Cleveland OH	NE	0.26 / 1,394.47	<a href="#"><u>23</u></a>
Max Hayes Technical School, Cleveland	2211 West 65th St Cleveland OH	NE	0.35 / 1,858.34	<a href="#"><u>32</u></a>

## **Non Standard**

### **Federal**

#### **FINDS/FRS - Facility Registry Service/Facility Index**

A search of the FINDS/FRS database, dated Nov 2, 2020 has found that there are 4 FINDS/FRS site(s) within approximately 0.02 miles of the project property.

<b><u>Equal/Higher Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (mi/ft)</u></b>	<b><u>Map Key</u></b>
PROTECTIVE PACKAGING PRODUCTS CO INC *	3203 W 71ST ST CLEVELAND OH 44102  <i>Registry ID: 110004585299</i>	ENE	0.00 / 0.00	<a href="#"><u>2</u></a>
ROHCO INC *	3203 W 71ST ST CLEVELAND OH 44102  <i>Registry ID: 110009602153</i>	ENE	0.00 / 0.00	<a href="#"><u>2</u></a>
ARTSPACES @ STOCKYARDS	7275 WENTWORTH AVENUE CLEVELAND OH 44102  <i>Registry ID: 110038697764</i>	SW	0.02 / 92.32	<a href="#"><u>4</u></a>
SIMKINS INDUSTRIES INC	7275 WENTWORTH AVE CLEVELAND OH 44102  <i>Registry ID: 110004629723</i>	SW	0.02 / 92.32	<a href="#"><u>4</u></a>

#### **PCB - Polychlorinated Biphenyl (PCB) Notifiers**

A search of the PCB database, dated Jul 28, 2022 has found that there are 1 PCB site(s) within approximately 0.50 miles of the project property.

<b><u>Equal/Higher Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (mi/ft)</u></b>	<b><u>Map Key</u></b>
ADVANCE HANDLING	3203 W. 71 ST. CLEVELAND OH 44102  <i>Site ID: OHD000720110</i>	ENE	0.00 / 0.00	<a href="#"><u>2</u></a>

## **State**

#### **SPILLS - Ohio Emergency Response (ER) Spills data**

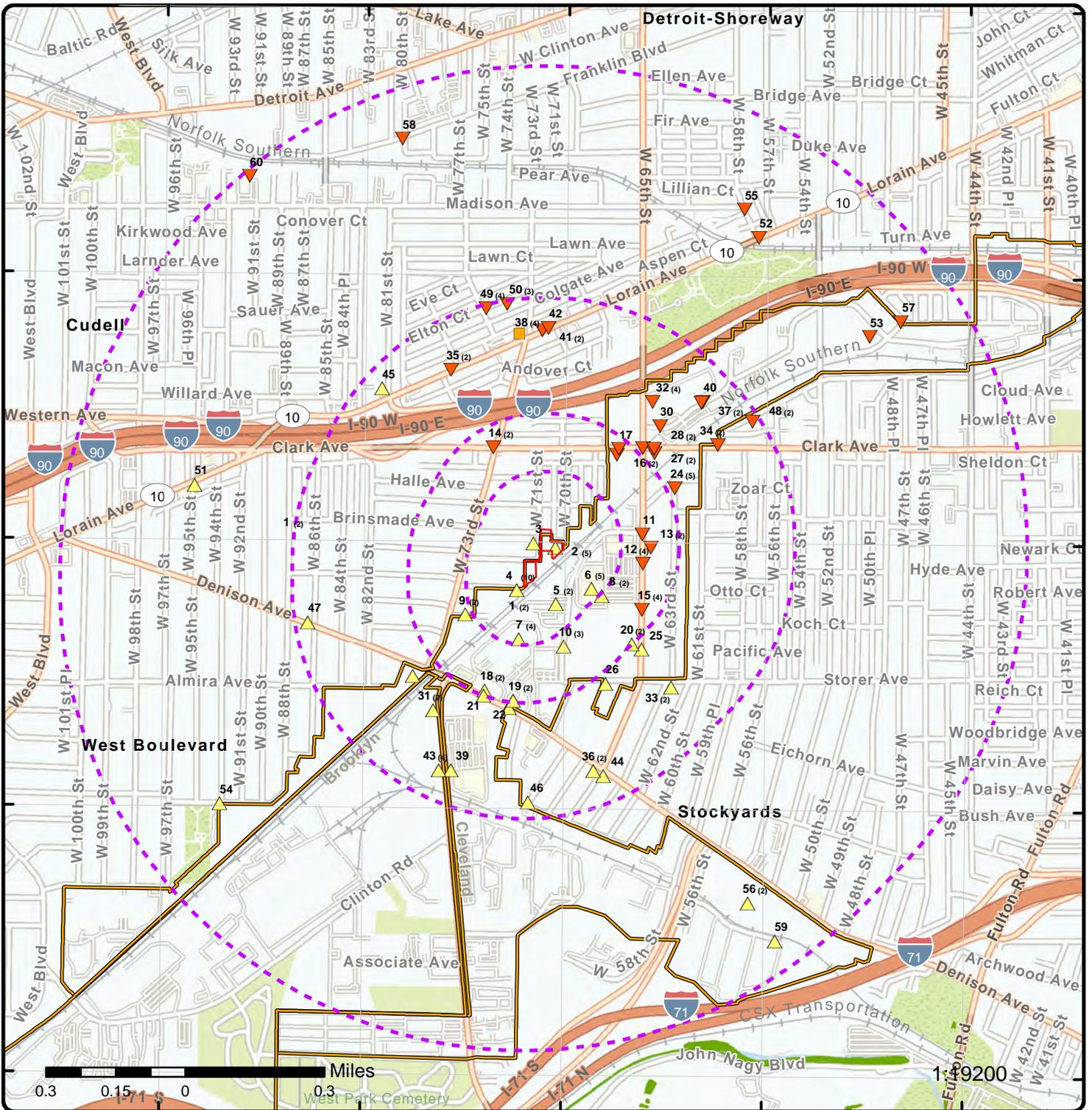
A search of the SPILLS database, dated Aug 25, 2020 has found that there are 4 SPILLS site(s) within approximately 0.12 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	3203 W 71ST ST CLEVELAND OH <i>Spill No: 732</i>	ENE	0.00 / 0.00	<a href="#"><u>2</u></a>
	3204 WEST 71ST STREET CLEVELAND OH <i>Spill No: 691</i>	NW	0.02 / 83.01	<a href="#"><u>3</u></a>
	7275 WENTWORTH AVE CLEVELAND OH	SW	0.02 / 92.32	<a href="#"><u>4</u></a>
	3250 W 65TH ST CLEVELAND OH	ESE	0.10 / 546.11	<a href="#"><u>6</u></a>

**USD - Urban Setting Designation Sites**

A search of the USD database, dated Sep 13, 2022 has found that there are 2 USD site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Cleveland City-wide	601 Lakeside Ave, Rm 210 Cleveland OH 44114-	W	0.00 / 0.00	<a href="#"><u>1</u></a>
Cleveland - Inner West	OH	W	0.00 / 0.00	<a href="#"><u>1</u></a>



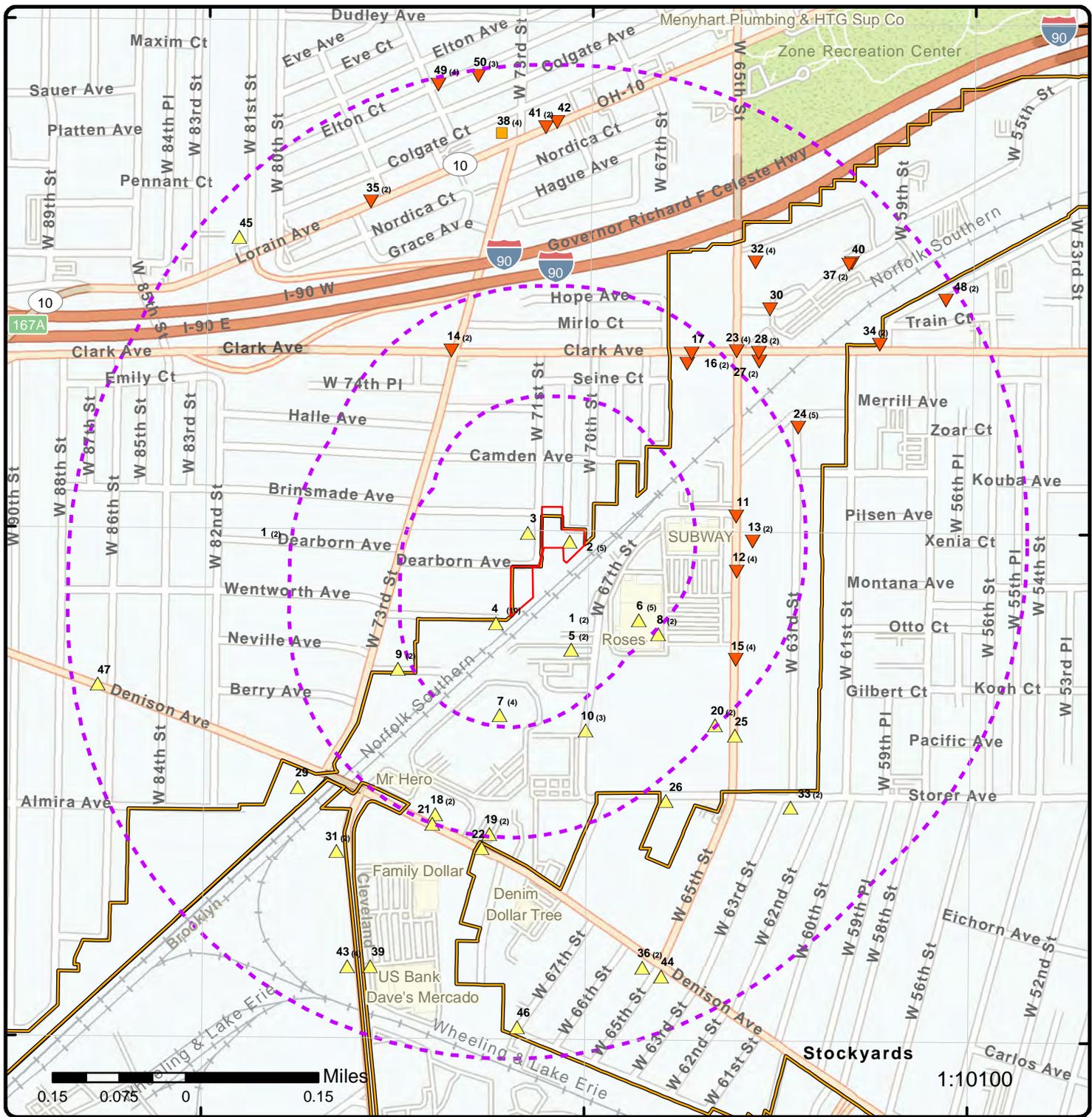
### Map: 1.0 Mile Radius

Order Number: 23010400162

Address: 3203 W. 71st Street, Cleveland, OH



- |                              |                        |                     |  |
|------------------------------|------------------------|---------------------|--|
| Project Property             | Buffer Outline         | State               | FWS Special Designation Areas  |
| Sites with Higher Elevation  | Freeways; Highways     | Country             | National Priorities List (Active, Delisted, Proposed, Institutional Control) |
| Sites with Same Elevation    | Traffic Circle; Ramp   | National Wetland    | Indian Reserve Land  |
| Sites with Lower Elevation   | Major & Minor Arterial | Plume               | 100 Year Flood Zone  |
| Sites with Unknown Elevation | Traffic Circle; Ramp   | 500 Year Flood Zone |  |
| Areas with Higher Elevation  | Local Road             |                     |  |
| Areas with Same Elevation    | Rail                   |                     |  |
| Areas with Lower Elevation   |                        |                     |  |
| Areas with Unknown Elevation |                        |                     |  |

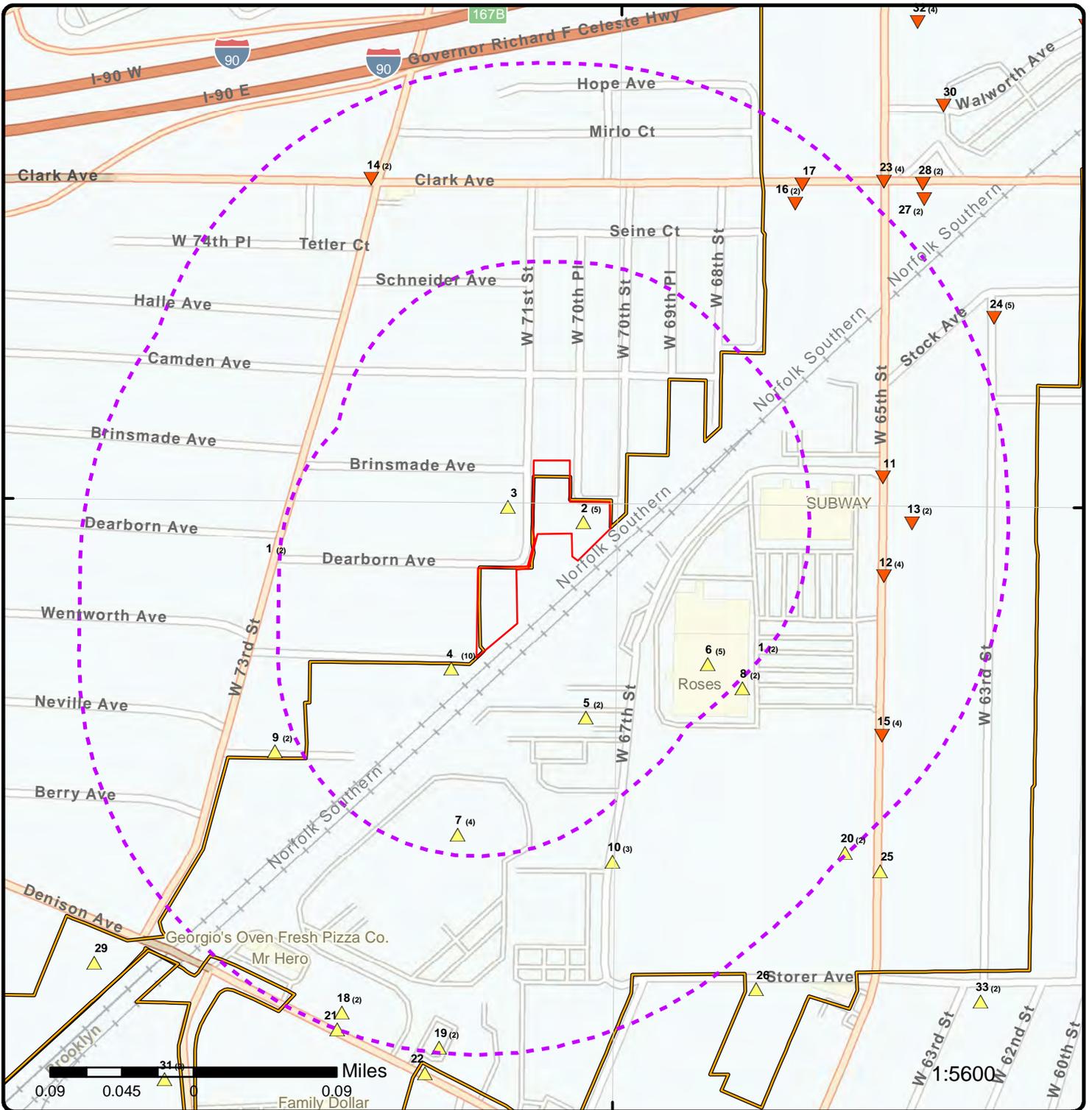


### Map: 0.5 Mile Radius

Order Number: 23010400162  
 Address: 3203 W. 71st Street, Cleveland, OH



- |                              |                        |                     |  |
|------------------------------|------------------------|---------------------|--|
| Project Property             | Buffer Outline         | State               | FWS Special Designation Areas  |
| Sites with Higher Elevation  | Freeways; Highways     | Country             | National Priorities List (Active, Delisted, Proposed, Institutional Control) |
| Sites with Same Elevation    | Traffic Circle; Ramp   | National Wetland    | Indian Reserve Land  |
| Sites with Lower Elevation   | Major & Minor Arterial | Plume               | 100 Year Flood Zone  |
| Sites with Unknown Elevation | Traffic Circle; Ramp   | 500 Year Flood Zone |  |
| Areas with Higher Elevation  | Local Road             |                     |  |
| Areas with Same Elevation    | Rail                   |                     |  |
| Areas with Lower Elevation   |                        |                     |  |
| Areas with Unknown Elevation |                        |                     |  |



### Map: 0.25 Mile Radius

Order Number: 23010400162  
Address: 3203 W. 71st Street, Cleveland, OH



- |                              |                        |                     |  |
|------------------------------|------------------------|---------------------|--|
| Project Property             | Buffer Outline         | State               | FWS Special Designation Areas  |
| Sites with Higher Elevation  | Freeways; Highways     | Country             | National Priorities List (Active, Delisted, Proposed, Institutional Control) |
| Sites with Same Elevation    | Traffic Circle; Ramp   | National Wetland    |  |
| Sites with Lower Elevation   | Major & Minor Arterial | Indian Reserve Land |  |
| Sites with Unknown Elevation | Traffic Circle; Ramp   | Plume               |  |
| Areas with Higher Elevation  | Local Road             | 100 Year Flood Zone |  |
| Areas with Same Elevation    | Rail                   | 500 Year Flood Zone |  |
| Areas with Lower Elevation   |                        |                     |  |
| Areas with Unknown Elevation |                        |                     |  |

81°44'30"W

81°44'W

81°43'30"W

41°28'30"N

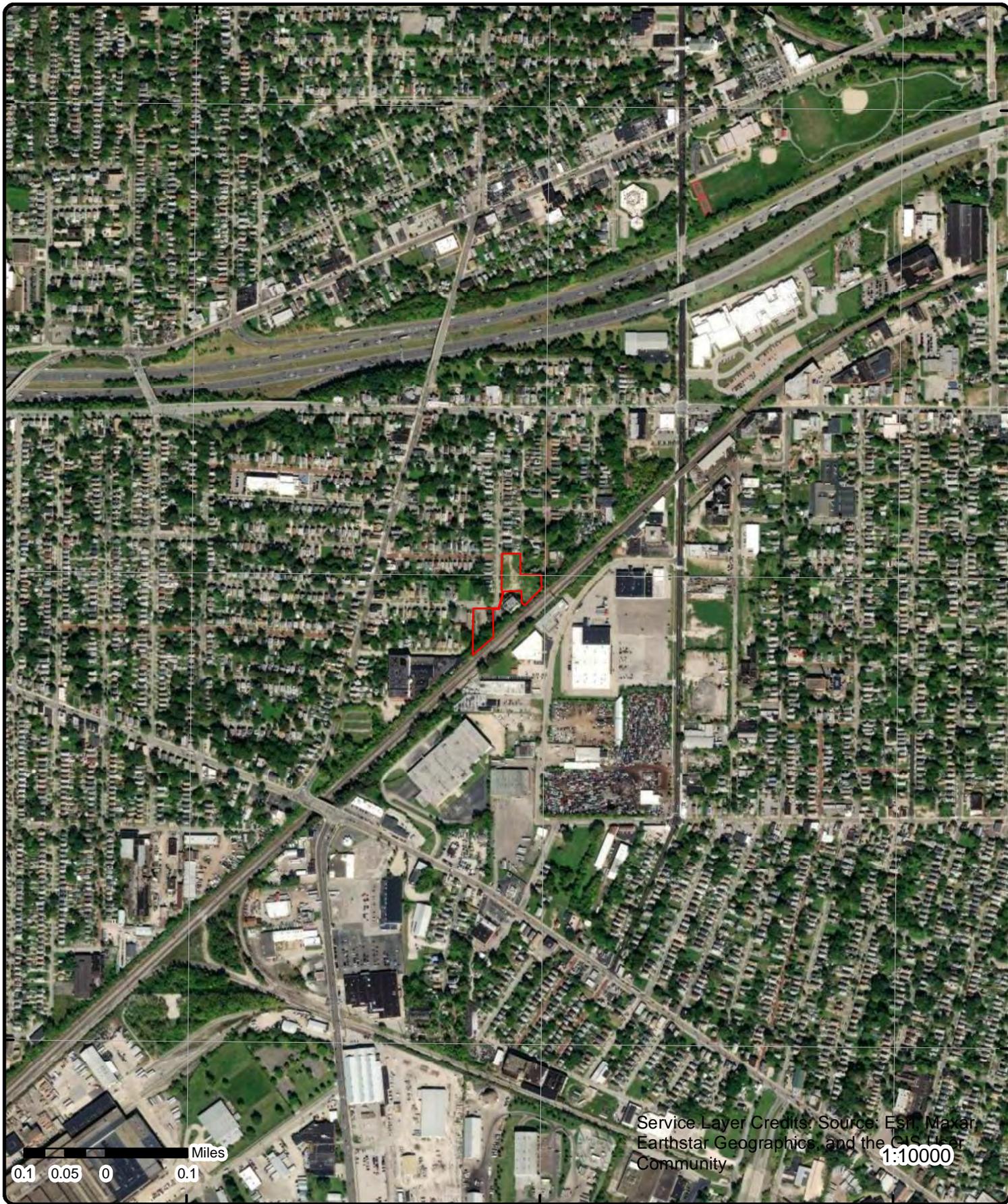
41°28'30"N

41°28'N

41°28'N

41°27'30"N

41°27'30"N



**Aerial** Year: 2021

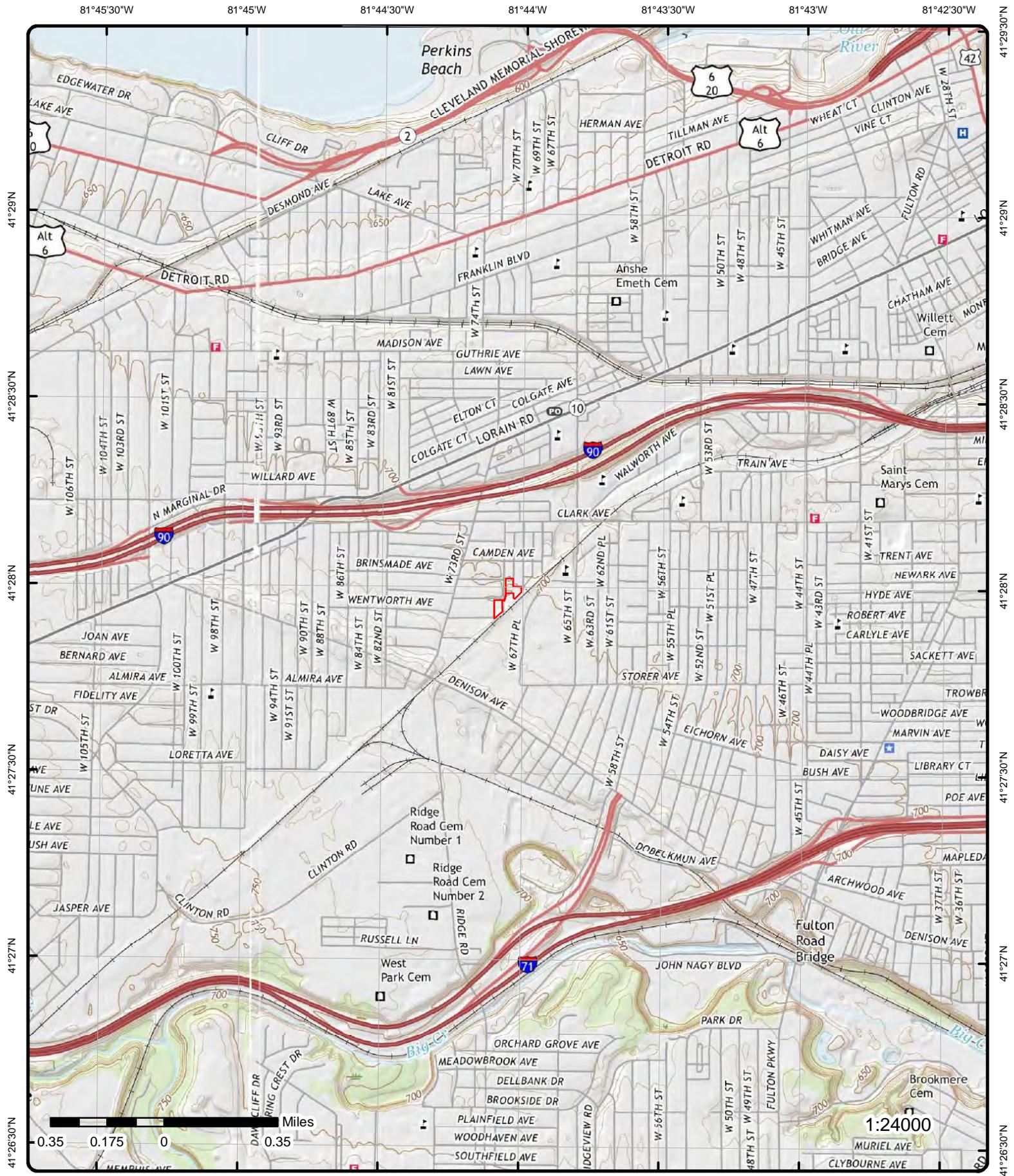
Address: 3203 W. 71st Street, Cleveland, OH

Source: ESRI World Imagery

Order Number: 23010400162



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**Topographic Map** Year: 2016

Address: 3203 W. 71st Street, OH

Quadrangle(s): Cleveland South, OH; Lakewood, OH

Source: USGS Topographic Map

Order Number: 23010400162



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# Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB		
<a href="#">1</a>	1 of 2	W	0.00 / 0.00	699.50 / 0	Cleveland - Inner West  OH	USD		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <b>Site ID:</b> 218002183  <b>Project ID:</b> 218002183001  <b>Project Type:</b> Urban Setting Designation  <b>Received Date:</b> 8/17/1998  <b>Approved Date:</b> 5/6/1999  <b>Verification Dt:</b> 12/29/2016  <b>Verif Outcome:</b> Unchanged  <b>Status Desc:</b> Granted  <b>USD Area Typ Desc:</b> Area Wide  <b>OEPA Distr Desc:</b> Northeast District Office  <b>Digitized Meth Desc:</b> Digital File from Consultant  <b>Map Source Desc:</b> Other  <b>Confidence Desc:</b> Medium  <b>Comments:</b> Feature to Point                 </td> <td style="width: 50%; vertical-align: top;"> <b>County:</b> Cuyahoga  <b>DERR Program:</b> Voluntary Action Program  <b>Polygon ID:</b> 197  <b>Polygon Name:</b>  <b>Staff Digitizer:</b> Gara, Brian  <b>Digitized Date:</b> 8/3/2016  <b>Centroid Lat:</b> 41.464562  <b>Centroid Long:</b> -81.727019  <b>Shape Length:</b> 0  <b>Modified By:</b> DERR_CO  <b>Modified Date:</b> 03-AUG-16 12.00.00.000000 AM  <b>Acreage:</b> 559.15822621                 </td> </tr> </table>							<b>Site ID:</b> 218002183 <b>Project ID:</b> 218002183001 <b>Project Type:</b> Urban Setting Designation <b>Received Date:</b> 8/17/1998 <b>Approved Date:</b> 5/6/1999 <b>Verification Dt:</b> 12/29/2016 <b>Verif Outcome:</b> Unchanged <b>Status Desc:</b> Granted <b>USD Area Typ Desc:</b> Area Wide <b>OEPA Distr Desc:</b> Northeast District Office <b>Digitized Meth Desc:</b> Digital File from Consultant <b>Map Source Desc:</b> Other <b>Confidence Desc:</b> Medium <b>Comments:</b> Feature to Point	<b>County:</b> Cuyahoga <b>DERR Program:</b> Voluntary Action Program <b>Polygon ID:</b> 197 <b>Polygon Name:</b> <b>Staff Digitizer:</b> Gara, Brian <b>Digitized Date:</b> 8/3/2016 <b>Centroid Lat:</b> 41.464562 <b>Centroid Long:</b> -81.727019 <b>Shape Length:</b> 0 <b>Modified By:</b> DERR_CO <b>Modified Date:</b> 03-AUG-16 12.00.00.000000 AM <b>Acreage:</b> 559.15822621
<b>Site ID:</b> 218002183 <b>Project ID:</b> 218002183001 <b>Project Type:</b> Urban Setting Designation <b>Received Date:</b> 8/17/1998 <b>Approved Date:</b> 5/6/1999 <b>Verification Dt:</b> 12/29/2016 <b>Verif Outcome:</b> Unchanged <b>Status Desc:</b> Granted <b>USD Area Typ Desc:</b> Area Wide <b>OEPA Distr Desc:</b> Northeast District Office <b>Digitized Meth Desc:</b> Digital File from Consultant <b>Map Source Desc:</b> Other <b>Confidence Desc:</b> Medium <b>Comments:</b> Feature to Point	<b>County:</b> Cuyahoga <b>DERR Program:</b> Voluntary Action Program <b>Polygon ID:</b> 197 <b>Polygon Name:</b> <b>Staff Digitizer:</b> Gara, Brian <b>Digitized Date:</b> 8/3/2016 <b>Centroid Lat:</b> 41.464562 <b>Centroid Long:</b> -81.727019 <b>Shape Length:</b> 0 <b>Modified By:</b> DERR_CO <b>Modified Date:</b> 03-AUG-16 12.00.00.000000 AM <b>Acreage:</b> 559.15822621							

<a href="#">1</a>	2 of 2	W	0.00 / 0.00	699.50 / 0	Cleveland City-wide 601 Lakeside Ave, Rm 210 Cleveland OH 44114-	USD		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <b>Site ID:</b> 218002661  <b>Project ID:</b> 218002661001  <b>Project Type:</b> Urban Setting Designation  <b>Received Date:</b> 3/4/2009  <b>Approved Date:</b> 2/16/2011  <b>Verification Dt:</b> 12/29/2016  <b>Verif Outcome:</b> Unchanged  <b>Status Desc:</b> Granted  <b>USD Area Typ Desc:</b> Area Wide  <b>OEPA Distr Desc:</b> Northeast District Office  <b>Digitized Meth Desc:</b> Digital File from Consultant  <b>Map Source Desc:</b> Other  <b>Confidence Desc:</b> High  <b>Comments:</b> corporate boundaries of City of Cleveland                 </td> <td style="width: 50%; vertical-align: top;"> <b>County:</b> Cuyahoga  <b>DERR Program:</b> Voluntary Action Program  <b>Polygon ID:</b> 10008  <b>Polygon Name:</b>  <b>Staff Digitizer:</b> SP  <b>Digitized Date:</b> 8/3/2016  <b>Centroid Lat:</b> 41.476941  <b>Centroid Long:</b> -81.680289  <b>Shape Length:</b> 0  <b>Modified By:</b> DERR_CO  <b>Modified Date:</b> 03-AUG-16 12.00.00.000000 AM  <b>Acreage:</b> 50267.6958155                 </td> </tr> </table>							<b>Site ID:</b> 218002661 <b>Project ID:</b> 218002661001 <b>Project Type:</b> Urban Setting Designation <b>Received Date:</b> 3/4/2009 <b>Approved Date:</b> 2/16/2011 <b>Verification Dt:</b> 12/29/2016 <b>Verif Outcome:</b> Unchanged <b>Status Desc:</b> Granted <b>USD Area Typ Desc:</b> Area Wide <b>OEPA Distr Desc:</b> Northeast District Office <b>Digitized Meth Desc:</b> Digital File from Consultant <b>Map Source Desc:</b> Other <b>Confidence Desc:</b> High <b>Comments:</b> corporate boundaries of City of Cleveland	<b>County:</b> Cuyahoga <b>DERR Program:</b> Voluntary Action Program <b>Polygon ID:</b> 10008 <b>Polygon Name:</b> <b>Staff Digitizer:</b> SP <b>Digitized Date:</b> 8/3/2016 <b>Centroid Lat:</b> 41.476941 <b>Centroid Long:</b> -81.680289 <b>Shape Length:</b> 0 <b>Modified By:</b> DERR_CO <b>Modified Date:</b> 03-AUG-16 12.00.00.000000 AM <b>Acreage:</b> 50267.6958155
<b>Site ID:</b> 218002661 <b>Project ID:</b> 218002661001 <b>Project Type:</b> Urban Setting Designation <b>Received Date:</b> 3/4/2009 <b>Approved Date:</b> 2/16/2011 <b>Verification Dt:</b> 12/29/2016 <b>Verif Outcome:</b> Unchanged <b>Status Desc:</b> Granted <b>USD Area Typ Desc:</b> Area Wide <b>OEPA Distr Desc:</b> Northeast District Office <b>Digitized Meth Desc:</b> Digital File from Consultant <b>Map Source Desc:</b> Other <b>Confidence Desc:</b> High <b>Comments:</b> corporate boundaries of City of Cleveland	<b>County:</b> Cuyahoga <b>DERR Program:</b> Voluntary Action Program <b>Polygon ID:</b> 10008 <b>Polygon Name:</b> <b>Staff Digitizer:</b> SP <b>Digitized Date:</b> 8/3/2016 <b>Centroid Lat:</b> 41.476941 <b>Centroid Long:</b> -81.680289 <b>Shape Length:</b> 0 <b>Modified By:</b> DERR_CO <b>Modified Date:</b> 03-AUG-16 12.00.00.000000 AM <b>Acreage:</b> 50267.6958155							

<a href="#">2</a>	1 of 5	ENE	0.00 / 0.00	701.18 / 2	PROTECTIVE PACKAGING PRODUCTS CO INC * 3203 W 71ST ST CLEVELAND OH 44102	FINDS/FRS		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <b>Registry ID:</b> 110004585299  <b>FIPS Code:</b> 39035  <b>HUC Code:</b> 04110002  <b>Site Type Name:</b> STATIONARY  <b>Location Description:</b>  <b>Supplemental Location:</b>  <b>Create Date:</b> 01-MAR-00  <b>Update Date:</b> 09-AUG-10  <b>Interest Types:</b> SQG, STATE MASTER  <b>SIC Codes:</b>  <b>SIC Code Descriptions:</b>  <b>NAICS Codes:</b> </td> <td style="width: 50%;"></td> </tr> </table>							<b>Registry ID:</b> 110004585299 <b>FIPS Code:</b> 39035 <b>HUC Code:</b> 04110002 <b>Site Type Name:</b> STATIONARY <b>Location Description:</b> <b>Supplemental Location:</b> <b>Create Date:</b> 01-MAR-00 <b>Update Date:</b> 09-AUG-10 <b>Interest Types:</b> SQG, STATE MASTER <b>SIC Codes:</b> <b>SIC Code Descriptions:</b> <b>NAICS Codes:</b>	
<b>Registry ID:</b> 110004585299 <b>FIPS Code:</b> 39035 <b>HUC Code:</b> 04110002 <b>Site Type Name:</b> STATIONARY <b>Location Description:</b> <b>Supplemental Location:</b> <b>Create Date:</b> 01-MAR-00 <b>Update Date:</b> 09-AUG-10 <b>Interest Types:</b> SQG, STATE MASTER <b>SIC Codes:</b> <b>SIC Code Descriptions:</b> <b>NAICS Codes:</b>								

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**NAICS Code Descriptions:**

**Conveyor:** FRS-GEOCODE  
**Federal Facility Code:**  
**Federal Agency Name:**  
**Tribal Land Code:**  
**Tribal Land Name:**  
**Congressional Dist No:** 10  
**Census Block Code:** 390351027005000  
**EPA Region Code:** 05  
**County Name:** CUYAHOGA  
**US/Mexico Border Ind:**  
**Latitude:** 41.46664  
**Longitude:** -81.73441  
**Reference Point:** CENTER OF A FACILITY OR STATION  
**Coord Collection Method:** ADDRESS MATCHING-HOUSE NUMBER  
**Accuracy Value:** 30  
**Datum:** NAD83  
**Source:**  
**Facility Detail Rprt URL:** [https://ofmpub.epa.gov/frs\\_public2/fii\\_query\\_detail.disp\\_program\\_facility?p\\_registry\\_id=110004585299](https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110004585299)  
**Program Acronyms:**

OH-CORE:10263, OH-CORE:243602, RCRAINFO:OHD000720110

<u>2</u>	2 of 5	ENE	0.00 / 0.00	701.18 / 2	ROHCO INC * 3203 W 71ST ST CLEVELAND OH 44102	FINDS/FRS
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**Registry ID:** 110009602153  
**FIPS Code:** 39035  
**HUC Code:** 04110002  
**Site Type Name:** STATIONARY  
**Location Description:**  
**Supplemental Location:**  
**Create Date:** 01-MAR-00  
**Update Date:** 12-OCT-06  
**Interest Types:** STATE MASTER  
**SIC Codes:**  
**SIC Code Descriptions:**  
**NAICS Codes:**  
**NAICS Code Descriptions:**  
**Conveyor:** FRS-GEOCODE  
**Federal Facility Code:**  
**Federal Agency Name:**  
**Tribal Land Code:**  
**Tribal Land Name:**  
**Congressional Dist No:** 10  
**Census Block Code:** 390351027005000  
**EPA Region Code:** 05  
**County Name:** CUYAHOGA  
**US/Mexico Border Ind:**  
**Latitude:** 41.46664  
**Longitude:** -81.73441  
**Reference Point:** CENTER OF A FACILITY OR STATION  
**Coord Collection Method:** ADDRESS MATCHING-HOUSE NUMBER  
**Accuracy Value:** 30  
**Datum:** NAD83  
**Source:**  
**Facility Detail Rprt URL:** [https://ofmpub.epa.gov/frs\\_public2/fii\\_query\\_detail.disp\\_program\\_facility?p\\_registry\\_id=110009602153](https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110009602153)  
**Program Acronyms:**

OH-CORE:11037

<u>2</u>	3 of 5	ENE	0.00 /	701.18 /	3203 W 71ST ST	SPILLS
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
			0.00	2	CLEVELAND OH	
<b>Spill ID:</b>				<b>District:</b>	NE	
<b>Spill No:</b>	732			<b>County:</b>	18	
<b>4 Digit No:</b>				<b>City Twp:</b>	CLEVELAND	
<b>Phone Followup:</b>				<b>Reported On:</b>	4/21/2016 10:08:23 AM	
<b>Zipcode:</b>				<b>Spill Year:</b>	2016	
<b>Latitude:</b>				<b>Spill Month:</b>	4	
<b>Longitude:</b>				<b>Spill Month N:</b>		
<b>Spill DOY:</b>				<b>Spill DOM:</b>		
<b>Spiller Report:</b>				<b>Affiliation:</b>	LOC	
<b>IIR Name:</b>						
<b>Location:</b>		3203 W 71ST ST				

**Historical Release Details**

<b>Media Affected:</b>				<b>Reported By:</b>	MICHAEL MCDONALD
<b>Acutal Amount:</b>	1			<b>Spill Month:</b>	4
<b>Unit of Measure:</b>	ITM			<b>Spill Year:</b>	2016
<b>Product Name:</b>		ORPHAND DRUM			
<b>Entity:</b>		UNK			

<u>2</u>	4 of 5	ENE	0.00 / 0.00	701.18 / 2	ADVANCE HANDLING 3203 W. 71 ST. CLEVELAND OH 44102	PCB
<b>Site ID:</b>	OHD000720110			<b>Mail Address 1:</b>	3203 W. 71 ST.	
<b>Receive Date:</b>				<b>Mail Address 2:</b>		
<b>Generator:</b>	Yes			<b>Mail Street No:</b>		
<b>Storer:</b>	No			<b>Mail City:</b>	CLEVELAND	
<b>Transporter:</b>	No			<b>Mail State:</b>	OH	
<b>Disposer:</b>	No			<b>Mail Zip:</b>	44102	
<b>Research:</b>	No			<b>Mail Country:</b>	US	
<b>Smelter:</b>	No			<b>Contact Name:</b>	JOSEPH CALA	
<b>Cert Title:</b>				<b>Contact Title:</b>		
<b>Cert Date:</b>	4/6/2006 12:00:00 AM			<b>Contact Phone:</b>	216-651-4477	
<b>Cert Name:</b>				<b>Contact Phone Ext:</b>		
<b>Location Country:</b>	US			<b>Contact Email:</b>		
<b>State Name:</b>	OHIO			<b>Owner Name:</b>	JOSEPH CALA	
<b>Region:</b>	05					

<u>2</u>	5 of 5	ENE	0.00 / 0.00	701.18 / 2	AMERICAN RECYCLING COMPANY INC 3203 W 71ST ST CLEVELAND OH 44102	RCRA NON GEN
<b>EPA Handler ID:</b>	OHD000720110					
<b>Gen Status Universe:</b>	No Report					
<b>Contact Name:</b>						
<b>Contact Address:</b>						
<b>Contact Phone No and Ext:</b>						
<b>Contact Email:</b>						
<b>Contact Country:</b>						
<b>County Name:</b>	CUYAHOGA					
<b>EPA Region:</b>	05					
<b>Land Type:</b>						
<b>Receive Date:</b>	20200709					
<b>Location Latitude:</b>						
<b>Location Longitude:</b>						

**Violation/Evaluation Summary**

**Note:** VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated Sep, 2022.

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-52-34(A)(2)&(3)  
**Violation Short Description:** Generators - Pre-transport  
**Violation Type:** 262.C  
**Violation Determined Date:** 20020710  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20030314  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20020731  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 610  
**Enforcement Type Description:** FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
**Enforcement Action Date:** 20030314  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:** 2000  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20040830  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20041026  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SS - 3734.02(F)  
**Violation Short Description:** Generators - General  
**Violation Type:** 262.A  
**Violation Determined Date:** 20020710  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
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Actual Return to Compl: 20030314  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20040830  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Enforcement Type: 610  
 Enforcement Type Description: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
 Enforcement Action Date: 20030314  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount: 2000  
 Paid Amount:

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20041026  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20020731  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation: SS - 3734.02(F)  
 Violation Short Description: TSD - General  
 Violation Type: 264.A  
 Violation Determined Date: 20010312  
 Scheduled Compliance Date:  
 Return to Compliance: Documented  
 Actual Return to Compl: 20030314  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20010815  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20041026  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Enforcement Type: 610  
 Enforcement Type Description: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
 Enforcement Action Date: 20030314  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount: 2000  
 Paid Amount:

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20010419  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20040830  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20010627  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation: SR - 3745-52-11  
 Violation Short Description: Generators - General  
 Violation Type: 262.A  
 Violation Determined Date: 20010312  
 Scheduled Compliance Date:  
 Return to Compliance: Documented  
 Actual Return to Compl: 20030314  
 Violation Responsible Agency: State

**Enforcement Details**

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
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**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20041026  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20010815  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 610  
**Enforcement Type Description:** FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
**Enforcement Action Date:** 20030314  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:** 2000  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20010627  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20010419  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20040830  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-52-34(A)  
**Violation Short Description:** Generators - Pre-transport  
**Violation Type:** 262.C  
**Violation Determined Date:** 20010628

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20030314  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 610  
**Enforcement Type Description:** FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
**Enforcement Action Date:** 20030314  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:** 2000  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20010815  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20040830  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20041026  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SS - 3734.02(E) & (F)  
**Violation Short Description:** TSD - General  
**Violation Type:** 264.A  
**Violation Determined Date:** 20010628  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20030314  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20041026  
**Enf Disposition Status:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Disposition Status Date:</b>						
<b>Enforcement Lead Agency:</b>		State				
<b>Proposed Penalty Amount:</b>						
<b>Final Amount:</b>						
<b>Paid Amount:</b>						
<b>Enforcement Type:</b>						
<b>Enforcement Type Description:</b>		120 WRITTEN INFORMAL				
<b>Enforcement Action Date:</b>		20040830				
<b>Enf Disposition Status:</b>						
<b>Disposition Status Date:</b>						
<b>Enforcement Lead Agency:</b>		State				
<b>Proposed Penalty Amount:</b>						
<b>Final Amount:</b>						
<b>Paid Amount:</b>						
<b>Enforcement Type:</b>						
<b>Enforcement Type Description:</b>		120 WRITTEN INFORMAL				
<b>Enforcement Action Date:</b>		20010815				
<b>Enf Disposition Status:</b>						
<b>Disposition Status Date:</b>						
<b>Enforcement Lead Agency:</b>		State				
<b>Proposed Penalty Amount:</b>						
<b>Final Amount:</b>						
<b>Paid Amount:</b>						
<b>Enforcement Type:</b>						
<b>Enforcement Type Description:</b>		610 FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY				
<b>Enforcement Action Date:</b>		20030314				
<b>Enf Disposition Status:</b>						
<b>Disposition Status Date:</b>						
<b>Enforcement Lead Agency:</b>		State				
<b>Proposed Penalty Amount:</b>						
<b>Final Amount:</b>						
<b>Paid Amount:</b>						

**Evaluation Details**

<b>Evaluation Start Date:</b>		20010803				
<b>Evaluation Type Description:</b>		SIGNIFICANT NON-COMPLIER				
<b>Violation Short Description:</b>		Generators - General				
<b>Return to Compliance Date:</b>		20030314				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20020710				
<b>Evaluation Type Description:</b>		FOCUSED COMPLIANCE INSPECTION				
<b>Violation Short Description:</b>		Generators - Pre-transport				
<b>Return to Compliance Date:</b>		20030314				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20060605				
<b>Evaluation Type Description:</b>		FOCUSED COMPLIANCE INSPECTION				
<b>Violation Short Description:</b>						
<b>Return to Compliance Date:</b>						
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20010312				
<b>Evaluation Type Description:</b>		FOCUSED COMPLIANCE INSPECTION				
<b>Violation Short Description:</b>		TSD - General				
<b>Return to Compliance Date:</b>		20030314				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20010628				
<b>Evaluation Type Description:</b>		FOCUSED COMPLIANCE INSPECTION				
<b>Violation Short Description:</b>		Generators - Pre-transport				
<b>Return to Compliance Date:</b>		20030314				
<b>Evaluation Agency:</b>		State				

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Evaluation Start Date:</b>		20010628				
<b>Evaluation Type Description:</b>		FOCUSED COMPLIANCE INSPECTION				
<b>Violation Short Description:</b>		Generators - General				
<b>Return to Compliance Date:</b>		20030314				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20060605				
<b>Evaluation Type Description:</b>		NOT A SIGNIFICANT NON-COMPLIER				
<b>Violation Short Description:</b>						
<b>Return to Compliance Date:</b>						
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20020212				
<b>Evaluation Type Description:</b>		COMPLIANCE ASSISTANCE VISIT				
<b>Violation Short Description:</b>						
<b>Return to Compliance Date:</b>						
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20020710				
<b>Evaluation Type Description:</b>		FOCUSED COMPLIANCE INSPECTION				
<b>Violation Short Description:</b>		Generators - General				
<b>Return to Compliance Date:</b>		20030314				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20010312				
<b>Evaluation Type Description:</b>		FOCUSED COMPLIANCE INSPECTION				
<b>Violation Short Description:</b>		Generators - General				
<b>Return to Compliance Date:</b>		20030314				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20010628				
<b>Evaluation Type Description:</b>		FOCUSED COMPLIANCE INSPECTION				
<b>Violation Short Description:</b>		TSD - General				
<b>Return to Compliance Date:</b>		20030314				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20010803				
<b>Evaluation Type Description:</b>		SIGNIFICANT NON-COMPLIER				
<b>Violation Short Description:</b>		TSD - General				
<b>Return to Compliance Date:</b>		20030314				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20011129				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>						
<b>Return to Compliance Date:</b>						
<b>Evaluation Agency:</b>		State				

**Handler Summary**

<b>Importer Activity:</b>	No
<b>Mixed Waste Generator:</b>	No
<b>Transporter Activity:</b>	No
<b>Transfer Facility:</b>	No
<b>Onsite Burner Exemption:</b>	No
<b>Furnace Exemption:</b>	No
<b>Underground Injection Activity:</b>	No
<b>Commercial TSD:</b>	No
<b>Used Oil Transporter:</b>	No
<b>Used Oil Transfer Facility:</b>	No
<b>Used Oil Processor:</b>	No
<b>Used Oil Refiner:</b>	No
<b>Used Oil Burner:</b>	No
<b>Used Oil Market Burner:</b>	No
<b>Used Oil Spec Marketer:</b>	No

**Hazardous Waste Handler Details**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Sequence No:** 1  
**Receive Date:** 19801119  
**Handler Name:** AMERICAN RECYCLING COMPANY INC  
**Source Type:** Part A  
**Federal Waste Generator Code:** N  
**Generator Code Description:** Not a Generator, Verified

**Hazardous Waste Handler Details**

**Sequence No:** 1  
**Receive Date:** 19990503  
**Handler Name:** AMERICAN RECYCLING COMPANY INC  
**Source Type:** Notification  
**Federal Waste Generator Code:** 2  
**Generator Code Description:** Small Quantity Generator

**Waste Code Details**

**Hazardous Waste Code:** X003  
**Waste Code Description:** DESCRIPTION

**Hazardous Waste Code:** D009  
**Waste Code Description:** MERCURY

**Hazardous Waste Code:** U028  
**Waste Code Description:** 1,2-BENZENEDICARBOXYLIC ACID, BIS(2-ETHYLHEXYL) ESTER (OR) DIETHYLHEXYL PHTHALATE

**Hazardous Waste Code:** D005  
**Waste Code Description:** BARIUM

**Hazardous Waste Code:** D006  
**Waste Code Description:** CADMIUM

**Hazardous Waste Code:** D008  
**Waste Code Description:** LEAD

**Hazardous Waste Code:** D001  
**Waste Code Description:** IGNITABLE WASTE

**Hazardous Waste Code:** U151  
**Waste Code Description:** MERCURY

**Hazardous Waste Handler Details**

**Sequence No:** 1  
**Receive Date:** 20200709  
**Handler Name:** AMERICAN RECYCLING COMPANY INC  
**Source Type:** Implementer  
**Federal Waste Generator Code:** N  
**Generator Code Description:** Not a Generator, Verified

**Owner/Operator Details**

<b>Owner/Operator Ind:</b> Current Owner	<b>Street No:</b>
<b>Type:</b> Private	<b>Street 1:</b> 3203 W 71ST ST
<b>Name:</b> ADVANCE HANDLING & STORAGE INC	<b>Street 2:</b>
<b>Date Became Current:</b>	<b>City:</b> CLEVELAND
<b>Date Ended Current:</b>	<b>State:</b> OH
<b>Phone:</b> 216-651-3737	<b>Country:</b>
<b>Source Type:</b> Notification	<b>Zip Code:</b> 44102
<b>Owner/Operator Ind:</b> Current Operator	<b>Street No:</b>
<b>Type:</b> Private	<b>Street 1:</b> ADDRESS NOT REPORTED

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>Name:</b>	NAME NOT REPORTED	<b>Street 2:</b>	
<b>Date Became Current:</b>		<b>City:</b>	CITY NOT REPORTED
<b>Date Ended Current:</b>		<b>State:</b>	AK
<b>Phone:</b>	312-555-1212	<b>Country:</b>	
<b>Source Type:</b>	Part A	<b>Zip Code:</b>	99998

**Historical Handler Details**

<b>Receive Dt:</b>	19990503
<b>Generator Code Description:</b>	Small Quantity Generator
<b>Handler Name:</b>	AMERICAN RECYCLING COMPANY INC
<b>Receive Dt:</b>	19801119
<b>Generator Code Description:</b>	Not a Generator, Verified
<b>Handler Name:</b>	AMERICAN RECYCLING COMPANY INC

<a href="#">3</a>	1 of 1	NW	0.02 / 83.01	700.43 / 1	3204 WEST 71ST STREET CLEVELAND OH	SPILLS
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<b>Spill ID:</b>		<b>District:</b>	NE
<b>Spill No:</b>	691	<b>County:</b>	18
<b>4 Digit No:</b>		<b>City Twp:</b>	CLEVELAND
<b>Phone Followup:</b>		<b>Reported On:</b>	4/11/2015 1:26:44 PM
<b>Zipcode:</b>		<b>Spill Year:</b>	2015
<b>Latitude:</b>		<b>Spill Month:</b>	4
<b>Longitude:</b>		<b>Spill Month N:</b>	
<b>Spill DOY:</b>		<b>Spill DOM:</b>	
<b>Spiller Report:</b>		<b>Affiliation:</b>	CIT
<b>IIR Name:</b>			
<b>Location:</b>	3204 WEST 71ST STREET		

**Historical Release Details**

<b>Media Affected:</b>		<b>Reported By:</b>	CIRERIA HALEY
<b>Acutal Amount:</b>		<b>Spill Month:</b>	4
<b>Unit of Measure:</b>	UNK	<b>Spill Year:</b>	2015
<b>Product Name:</b>	MOLD		
<b>Entity:</b>	UNK		

<a href="#">4</a>	1 of 10	SW	0.02 / 92.32	701.86 / 2	SIMKINS INDUSTRIES 7275 WENTWORTH AVENUE CLEVELAND OH 44102	CERCLIS
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<b>Site ID:</b>	0506641	<b>RNPL Status Code:</b>	N
<b>Site EPA ID:</b>	OHD097623961	<b>NPL Status:</b>	Not on the NPL
<b>Site Street Address 2:</b>		<b>RFED Facility Code:</b>	N
<b>Site County Name:</b>	CUYAHOGA	<b>RFED Facility Desc:</b>	Not a Federal Facility
<b>Site FIPS Code:</b>	39035	<b>USGS Hydro Unit No.:</b>	04110002
<b>Region Code:</b>	05	<b>Site Cong. Dist. Code:</b>	20
<b>Site SMSA No.:</b>	1680	<b>ROT Desc:</b>	Unknown
<b>Site Prim. Latitude:</b>	+42.298333	<b>FR NPL Update No.:</b>	
<b>Site Prim. Longitude:</b>	-081.737500	<b>RFRA Code:</b>	
<b>Lat Long Source:</b>			
<b>RNON NPL Status Desc:</b>	Deferred to RCRA		

**CERCLIS Assess History**

<b>OU ID:</b>	00	<b>RALT Short Name:</b>	EPA In-House
<b>Act Code ID:</b>	001	<b>Act Start Date:</b>	
<b>RAT Code:</b>	VS	<b>Act Complete Date:</b>	12/28/1995 00:00:00
<b>RAT Short Name:</b>	ARCH SITE	<b>AGT Order No.:</b>	1500
<b>RAT Name:</b>	ARCHIVE SITE	<b>SH OU:</b>	
<b>RAT Hist. Only Flag:</b>		<b>SH Code:</b>	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB	
RAT NSI Indicator:	B				SH Seq:		
RAT Level:	1				SH Start Date:		
RAT DEF OU:	00				SH Complete Date:		
RFBS Code:					SH Lead:		
SPA Code:	13						
RAT Def:		The decision is made that no further activity is planned at the site.					
Site Desc:							
Site Alias:							

**CERCLIS Assess History**

OU ID:	00				RALT Short Name:	State (Fund)	
Act Code ID:	001				Act Start Date:		
RAT Code:	DS				Act Complete Date:	6/18/1991 00:00:00	
RAT Short Name:	DISCVRY				AGT Order No.:	10	
RAT Name:	DISCOVERY				SH OU:		
RAT Hist. Only Flag:					SH Code:		
RAT NSI Indicator:	B				SH Seq:		
RAT Level:	1				SH Start Date:		
RAT DEF OU:	00				SH Complete Date:		
RFBS Code:					SH Lead:		
SPA Code:	13						
RAT Def:		The process by which a potential hazardous waste site is brought to the attention of the EPA. The process can occur through the use of several mechanisms such as a phone call or referral by another government agency.					
Site Desc:							
Site Alias:							

**CERCLIS Assess History**

OU ID:	00				RALT Short Name:		
Act Code ID:					Act Start Date:		
RAT Code:					Act Complete Date:		
RAT Short Name:					AGT Order No.:	0	
RAT Name:					SH OU:		
RAT Hist. Only Flag:					SH Code:		
RAT NSI Indicator:					SH Seq:		
RAT Level:					SH Start Date:		
RAT DEF OU:					SH Complete Date:		
RFBS Code:					SH Lead:		
SPA Code:							
RAT Def:		No description available					
Site Desc:							
Site Alias:		No alias data available					

**CERCLIS Assess History**

OU ID:	00				RALT Short Name:	EPA Fund	
Act Code ID:	001				Act Start Date:		
RAT Code:	PA				Act Complete Date:	2/21/1992 00:00:00	
RAT Short Name:	PA				AGT Order No.:	130	
RAT Name:	PRELIMINARY ASSESSMENT				SH OU:		
RAT Hist. Only Flag:					SH Code:		
RAT NSI Indicator:	B				SH Seq:		
RAT Level:	1				SH Start Date:		
RAT DEF OU:	00				SH Complete Date:		
RFBS Code:	P				SH Lead:		
SPA Code:	13						
RAT Def:		Collection of diverse existing information about the source and nature of the site hazard. It is EPA policy to complete the preliminary assessment within one year of site discovery.					
Site Desc:							
Site Alias:							

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**CLEVELAND OH 44102**

<b>Site ID:</b>	506641	<b>Site FIPS Code:</b>	39035
<b>Site EPA ID:</b>	OHD097623961	<b>Region Code:</b>	5
<b>Site Parent ID:</b>		<b>Site Cong. Dist. Code:</b>	20
<b>Site County Name:</b>	CUYAHOGA	<b>Federal Facility:</b>	
<b>Parent Site Name:</b>			

**CERCLIS-NFRAP Assess History**

<b>OU ID:</b>	0	<b>Act Start Date:</b>	
<b>Act Code ID:</b>	1	<b>Act Complete Date:</b>	6/18/1991
<b>RAT Code:</b>	DS	<b>AGT Order No.:</b>	10
<b>RAT Short Name:</b>	DISCVRY	<b>SH OU:</b>	
<b>RAT Name:</b>	DISCOVERY	<b>SH Code:</b>	
<b>RAT Hist. Only Flag:</b>		<b>SH Seq:</b>	
<b>RAT NSI Indicator:</b>	B	<b>SH Start Date:</b>	
<b>RAT Level:</b>	1	<b>SH Complete Date:</b>	
<b>RAT DEF OU:</b>	00	<b>SH Lead:</b>	
<b>RFBS Code:</b>		<b>SH Qual:</b>	
<b>SPA Code:</b>	13	<b>RAQ Act. Qual Short:</b>	
<b>RALT Short Name:</b>	State (Fund)	<b>RNPL Status Code:</b>	N
<b>RAT Def:</b>	The process by which a potential hazardous waste site is brought to the attention of the EPA. The process can occur through the use of several mechanisms such as a phone call or referral by another government agency.		
<b>RNON NPL Status Desc:</b>	Deferred to RCRA		

**CERCLIS-NFRAP Assess History**

<b>OU ID:</b>	0	<b>Act Start Date:</b>	
<b>Act Code ID:</b>	1	<b>Act Complete Date:</b>	2/21/1992
<b>RAT Code:</b>	PA	<b>AGT Order No.:</b>	130
<b>RAT Short Name:</b>	PA	<b>SH OU:</b>	
<b>RAT Name:</b>	PRELIMINARY ASSESSMENT	<b>SH Code:</b>	
<b>RAT Hist. Only Flag:</b>		<b>SH Seq:</b>	
<b>RAT NSI Indicator:</b>	B	<b>SH Start Date:</b>	
<b>RAT Level:</b>	1	<b>SH Complete Date:</b>	
<b>RAT DEF OU:</b>	00	<b>SH Lead:</b>	
<b>RFBS Code:</b>	P	<b>SH Qual:</b>	
<b>SPA Code:</b>	13	<b>RAQ Act. Qual Short:</b>	Deferred to RCRA
<b>RALT Short Name:</b>	EPA Fund	<b>RNPL Status Code:</b>	N
<b>RAT Def:</b>	Collection of diverse existing information about the source and nature of the site hazard. It is EPA policy to complete the preliminary assessment within one year of site discovery.		
<b>RNON NPL Status Desc:</b>	Deferred to RCRA		

**CERCLIS-NFRAP Assess History**

<b>OU ID:</b>	0	<b>Act Start Date:</b>	
<b>Act Code ID:</b>	1	<b>Act Complete Date:</b>	12/28/1995
<b>RAT Code:</b>	VS	<b>AGT Order No.:</b>	1500
<b>RAT Short Name:</b>	ARCH SITE	<b>SH OU:</b>	
<b>RAT Name:</b>	ARCHIVE SITE	<b>SH Code:</b>	
<b>RAT Hist. Only Flag:</b>		<b>SH Seq:</b>	
<b>RAT NSI Indicator:</b>	B	<b>SH Start Date:</b>	
<b>RAT Level:</b>	1	<b>SH Complete Date:</b>	
<b>RAT DEF OU:</b>	00	<b>SH Lead:</b>	
<b>RFBS Code:</b>		<b>SH Qual:</b>	
<b>SPA Code:</b>	13	<b>RAQ Act. Qual Short:</b>	
<b>RALT Short Name:</b>	EPA In-House	<b>RNPL Status Code:</b>	N
<b>RAT Def:</b>	The decision is made that no further activity is planned at the site.		
<b>RNON NPL Status Desc:</b>	Deferred to RCRA		

**EPA Handler ID:** OHD097623961  
**Gen Status Universe:** No Report  
**Contact Name:**  
**Contact Address:**  
**Contact Phone No and Ext:**  
**Contact Email:**  
**Contact Country:**  
**County Name:** CUYAHOGA  
**EPA Region:** 05  
**Land Type:**  
**Receive Date:** 20200713  
**Location Latitude:**  
**Location Longitude:**

**Event/Area Details**

**Area Name:** ENTIRE FACILITY  
**Event Code:** CA050  
**Corrective Action Event Descri:** RFA COMPLETED  
**Actual Date of Event:** 19920224  
**Orig Sched Event Date:**  
**New Sched Event Date:**  
**Best Date:** 19920224  
**Groundwater Release Indicator:**  
**Soil Release Indicator:**  
**Air Release Indicator:**  
**Surface Waste Release Ind:**  
**Event Responsible Agency:** E

**Area Name:** ENTIRE FACILITY  
**Event Code:** CA070NO  
**Corrective Action Event Descri:** DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NOT NECESSARY  
**Actual Date of Event:** 20090501  
**Orig Sched Event Date:**  
**New Sched Event Date:**  
**Best Date:** 20090501  
**Groundwater Release Indicator:**  
**Soil Release Indicator:**  
**Air Release Indicator:**  
**Surface Waste Release Ind:**  
**Event Responsible Agency:** E

**Area Name:** ENTIRE FACILITY  
**Event Code:** CA001  
**Corrective Action Event Descri:** ADDITIONAL INFORMATION NECESSARY [CATEGORY B] - INITIAL LOAD  
**Actual Date of Event:** 20060701  
**Orig Sched Event Date:**  
**New Sched Event Date:**  
**Best Date:** 20060701  
**Groundwater Release Indicator:**  
**Soil Release Indicator:**  
**Air Release Indicator:**  
**Surface Waste Release Ind:**  
**Event Responsible Agency:** S

**Area Name:** ENTIRE FACILITY  
**Event Code:** CA070YE  
**Corrective Action Event Descri:** DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY  
**Actual Date of Event:** 19920224  
**Orig Sched Event Date:**  
**New Sched Event Date:**  
**Best Date:** 19920224  
**Groundwater Release Indicator:**  
**Soil Release Indicator:**  
**Air Release Indicator:**  
**Surface Waste Release Ind:**  
**Event Responsible Agency:** E

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
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**Area Name:** ENTIRE FACILITY  
**Event Code:** CA075LO  
**Corrective Action Event Descr:** CA PRIORITIZATION-LOW CA PRIORITY  
**Actual Date of Event:** 19911231  
**Orig Sched Event Date:**  
**New Sched Event Date:**  
**Best Date:** 19911231  
**Groundwater Release Indicator:**  
**Soil Release Indicator:**  
**Air Release Indicator:**  
**Surface Waste Release Ind:**  
**Event Responsible Agency:** E

**Violation/Evaluation Summary**

**Note:** VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated Sep, 2022.

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** Generators - General  
**Violation Type:** 262.A  
**Violation Determined Date:** 19880415  
**Scheduled Compliance Date:** 19880621  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19890309  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19880421  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** LDR - General  
**Violation Type:** 268.A  
**Violation Determined Date:** 19880415  
**Scheduled Compliance Date:**  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19880927  
**Violation Responsible Agency:** State

**Evaluation Details**

**Evaluation Start Date:** 19880415  
**Evaluation Type Description:** COMPLIANCE EVALUATION INSPECTION ON-SITE  
**Violation Short Description:** Generators - General  
**Return to Compliance Date:** 19890309  
**Evaluation Agency:** State

**Evaluation Start Date:** 19890303  
**Evaluation Type Description:** COMPLIANCE EVALUATION INSPECTION ON-SITE  
**Violation Short Description:**  
**Return to Compliance Date:**  
**Evaluation Agency:** State

**Evaluation Start Date:** 19880714  
**Evaluation Type Description:** COMPLIANCE SCHEDULE EVALUATION  
**Violation Short Description:**  
**Return to Compliance Date:**  
**Evaluation Agency:** State

**Evaluation Start Date:** 19880415  
**Evaluation Type Description:** FOCUSED COMPLIANCE INSPECTION  
**Violation Short Description:** LDR - General  
**Return to Compliance Date:** 19880927  
**Evaluation Agency:** State

**Handler Summary**

**Importer Activity:** No  
**Mixed Waste Generator:** No  
**Transporter Activity:** No  
**Transfer Facility:** No  
**Onsite Burner:** No  
**Smelting, Melting and Refining:** No  
**Underground Injection Control:** No  
**Commercial TSD:** No  
**Used Oil Transporter:** No  
**Used Oil Transfer Facility:** No  
**Used Oil Processor:** No  
**Used Oil Refiner:** No  
**Used Oil Burner:** No  
**Used Oil Market Burner:** No  
**Used Oil Spec Marketer:** No

**Hazardous Waste Handler Details**

**Sequence No:** 1  
**Receive Date:** 20200713  
**Handler Name:** SIMKINS INDUSTRIES  
**Federal Waste Generator Code:** N  
**Generator Code Description:** Not a Generator, Verified  
**Source Type:** Implementer

**Hazardous Waste Handler Details**

**Sequence No:** 1  
**Receive Date:** 19911025  
**Handler Name:** SIMKINS INDUSTRIES  
**Federal Waste Generator Code:** 2  
**Generator Code Description:** Small Quantity Generator  
**Source Type:** Notification

**Waste Code Details**

**Hazardous Waste Code:** D000  
**Waste Code Description:** DESCRIPTION

**Hazardous Waste Code:** D001  
**Waste Code Description:** IGNITABLE WASTE

**Hazardous Waste Code:** D018  
**Waste Code Description:** BENZENE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Hazardous Waste Code:** D039  
**Waste Code Description:** TETRACHLOROETHYLENE

**Hazardous Waste Handler Details**

**Sequence No:** 1  
**Receive Date:** 19820310  
**Handler Name:** SIMKINS INDUSTRIES  
**Federal Waste Generator Code:** N  
**Generator Code Description:** Not a Generator, Verified  
**Source Type:** Part A

**Waste Code Details**

**Hazardous Waste Code:** D001  
**Waste Code Description:** IGNITABLE WASTE

**Hazardous Waste Code:** F003  
**Waste Code Description:** THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

**Hazardous Waste Code:** F004  
**Waste Code Description:** THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

**Hazardous Waste Code:** K086  
**Waste Code Description:** SOLVENT WASHES AND SLUDGES, CAUSTIC WASHES AND SLUDGES, OR WATER WASHES AND SLUDGES FROM CLEANING TUBS AND EQUIPMENT USED IN THE FORMULATION OF INK FROM PIGMENTS, DRIERS, SOAPS, AND STABILIZERS CONTAINING CHROMIUM AND LEAD.

**Owner/Operator Details**

<b>Owner/Operator Ind:</b> Current Owner	<b>Street No:</b>
<b>Type:</b> Private	<b>Street 1:</b> 260 EAST ST
<b>Name:</b> SIMKINS INDUSTRIES INC	<b>Street 2:</b>
<b>Date Became Current:</b>	<b>City:</b> NEW HAVEN
<b>Date Ended Current:</b>	<b>State:</b> CT
<b>Phone:</b> 203-787-7171	<b>Country:</b>
<b>Source Type:</b> Notification	<b>Zip Code:</b> 06511

<b>Owner/Operator Ind:</b> Current Operator	<b>Street No:</b>
<b>Type:</b> Private	<b>Street 1:</b> 7275 WENTWORTH AVE
<b>Name:</b> SIMKINS INDUSTRIES INC	<b>Street 2:</b>
<b>Date Became Current:</b>	<b>City:</b> CITY NOT REPORTED
<b>Date Ended Current:</b>	<b>State:</b> OH
<b>Phone:</b> 216-631-2300	<b>Country:</b>
<b>Source Type:</b> Part A	<b>Zip Code:</b> 99998

**Historical Handler Details**

**Receive Dt:** 19820310  
**Generator Code Description:** Not a Generator, Verified  
**Handler Name:** SIMKINS INDUSTRIES

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Receive Dt:		19911025				
Generator Code Description:		Small Quantity Generator				
Handler Name:		SIMKINS INDUSTRIES				

4      4 of 10      SW      0.02 / 92.32      701.86 / 2      7275 WENTWORTH AVE CLEVELAND OH      SPILLS

Spill ID:	0701EPA0000126	District:	
Spill No:		County:	Cuyahoga
4 Digit No:		City Twp:	CLEVELAND
Phone Followup:		Reported On:	1/9/2007, 7:07 AM
Zipcode:		Spill Year:	2007
Latitude:	41.46525	Spill Month:	January
Longitude:	-81.73738889	Spill Month N:	
Spill DOY:	9	Spill DOM:	9
Spiller Report:		Affiliation:	
IIR Name:			
Location:	7275 WENTWORTH AVE		

Historic Spill Details

Reprted Date:	1168340847000	OEPADIST:	NEDO
Spill Year:	2007	Location:	7275 WENTWORTH AVE
Spill Month:	January	City Twn:	CLEVELAND
Spill Mth No:	1	County:	Cuyahoga
Spill DoM:	9	Latitude:	41.46525
Spill DoY:	9	Longitude:	-81.73738889
Waterway:	STORM DRAIN		

Historical Release Details

Reported Date:	1168340847000	Spill Month:	1
Reported UOM:		Spill DOM:	9
Recov Amount:		Spill Year:	2007
Recov Unit:		Spill Month No:	1
Recov Product Type:	Transformer Oil (Non-PCB)	Spill DOY:	9
Waterway:	STORM DRAIN	Latitude:	41.46525
Oepadist:	NEDO	Longitude:	-81.73738889
Reported product:	TRANSFORMER OIL		
Reported amount:	350		

Historical Release Details

Product:	TRANSFORMER OIL	Spill Year:	2007
Amount:	350	Spill Month:	1
Unit:		Spill Month Num:	1
Spill Size:	SMALL: 500 GAL/400 LBS	Spill DOM:	9
Spill Type:		Spill Day of Year:	9
Ext Haz:		Latitude:	41.46525
OEPA Dist:	NEDO	Longitude:	-81.73738889
Disposition:			
Incident Type Code:	05		
Incident Type:	WATERWAY		
Modifying Circumstance Code:			
Modifying Circumstance Desc:			

4      5 of 10      SW      0.02 / 92.32      701.86 / 2      Simkins Ind, Cleveland 7275 Wentworth Ave Cleveland OH 44102      DERR

DERR ID:	218001629	County:	Cuyahoga
CERCLIS ID:	OHD097623961	District:	NEDO
Program:	SA	Latitude:	41.465087

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Program Desc:</b>	Site Assessment				<b>Longitude:</b> -81.7362	
<b>Address (REST):</b>	7275 Wentworth Ave				<b>Cerclis IID (REST):</b> OHD097623961	
<b>City (REST):</b>	Cleveland				<b>OepaDstrct (REST):</b> NEDO	
<b>Zip (REST):</b>	44102				<b>Activity (REST):</b> SA	
<b>County (REST):</b>	Cuyahoga				<b>DERR ID (REST):</b> 218001629	
<b>LatDd Begin (REST):</b>	41.465087				<b>LonDd Begin (REST):</b> -81.7362	
<b>Source:</b>	Ohio EPA: DERR Database; REST Services Directory: DERR Database (OEPA-DERR)					
<b>Name (REST):</b>	Simkins Ind, Cleveland					

**REST Services Directory: DERR Database (OEPA-DERR)**

<b>Cerclis ID:</b>	OHD097623961	<b>Address:</b>	7275 Wentworth Ave
<b>Alias:</b>		<b>City:</b>	Cleveland
<b>Activity:</b>	SA	<b>Zip:</b>	44102
<b>ODoT District:</b>	12	<b>Latitude DD Begin:</b>	41.465087
<b>OEPA District:</b>	NEDO	<b>Longitude DD Begin:</b>	-81.7362
<b>County:</b>	Cuyahoga		
<b>Name:</b>	Simkins Ind, Cleveland		

<u>4</u>	6 of 10	SW	0.02 / 92.32	701.86 / 2	SIMKINS INDUSTRIES INC 7275 WENTWORTH AVE CLEVELAND OH 44102	FINDS/FRS
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<b>Registry ID:</b>	110004629723
<b>FIPS Code:</b>	39035
<b>HUC Code:</b>	04110002
<b>Site Type Name:</b>	STATIONARY
<b>Location Description:</b>	
<b>Supplemental Location:</b>	
<b>Create Date:</b>	01-MAR-00
<b>Update Date:</b>	09-AUG-10
<b>Interest Types:</b>	SQG, STATE MASTER
<b>SIC Codes:</b>	2752
<b>SIC Code Descriptions:</b>	COMMERCIAL PRINTING, LITHOGRAPHIC
<b>NAICS Codes:</b>	
<b>NAICS Code Descriptions:</b>	
<b>Conveyor:</b>	FRS-GEOCODE
<b>Federal Facility Code:</b>	
<b>Federal Agency Name:</b>	
<b>Tribal Land Code:</b>	
<b>Tribal Land Name:</b>	
<b>Congressional Dist No:</b>	10
<b>Census Block Code:</b>	390351027005016
<b>EPA Region Code:</b>	05
<b>County Name:</b>	CUYAHOGA
<b>US/Mexico Border Ind:</b>	
<b>Latitude:</b>	41.46525
<b>Longitude:</b>	-81.73635
<b>Reference Point:</b>	CENTER OF A FACILITY OR STATION
<b>Coord Collection Method:</b>	ADDRESS MATCHING-HOUSE NUMBER
<b>Accuracy Value:</b>	30
<b>Datum:</b>	NAD83
<b>Source:</b>	
<b>Facility Detail Rprt URL:</b>	<a href="https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110004629723">https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110004629723</a>
<b>Program Acronyms:</b>	

OH-CORE:11545, RCRAINFO:OHD097623961

<u>4</u>	7 of 10	SW	0.02 / 92.32	701.86 / 2	ARTSPACES @ STOCKYARDS 7275 WENTWORTH AVENUE CLEVELAND OH 44102	FINDS/FRS
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<b>Registry ID:</b>	110038697764
<b>FIPS Code:</b>	39035

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>HUC Code:</b>		04110002				
<b>Site Type Name:</b>		BROWNFIELDS SITE				
<b>Location Description:</b>						
<b>Supplemental Location:</b>						
<b>Create Date:</b>		24-JUN-09				
<b>Update Date:</b>		24-SEP-14				
<b>Interest Types:</b>		BROWNFIELDS PROPERTY				
<b>SIC Codes:</b>						
<b>SIC Code Descriptions:</b>						
<b>NAICS Codes:</b>						
<b>NAICS Code Descriptions:</b>						
<b>Conveyor:</b>		FRS-GEOCODE				
<b>Federal Facility Code:</b>						
<b>Federal Agency Name:</b>						
<b>Tribal Land Code:</b>						
<b>Tribal Land Name:</b>						
<b>Congressional Dist No:</b>		10				
<b>Census Block Code:</b>		390351027005016				
<b>EPA Region Code:</b>		05				
<b>County Name:</b>		CUYAHOGA				
<b>US/Mexico Border Ind:</b>						
<b>Latitude:</b>		41.46525				
<b>Longitude:</b>		-81.73635				
<b>Reference Point:</b>		CENTER OF A FACILITY OR STATION				
<b>Coord Collection Method:</b>		ADDRESS MATCHING-HOUSE NUMBER				
<b>Accuracy Value:</b>		30				
<b>Datum:</b>		NAD83				
<b>Source:</b>						
<b>Facility Detail Rprt URL:</b>		https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110038697764				
<b>Program Acronyms:</b>						
ACRES:15585						

4      8 of 10      SW      0.02 / 92.32      701.86 / 2      **Artspaces @ Stockyards**  
**7275 Wentworth Avenue**  
**Cleveland OH 44102**      **FED BROWNFIELDS**

<b>Property ID:</b>	15585	<b>BF Property (Map):</b>	15585
<b>Lat Measure:</b>	41.465145	<b>Latitude (Map):</b>	41.465145
<b>Long Measure:</b>	-81.737366	<b>Longitude (Map):</b>	-81.737366
<b>Property Name:</b>	Artspaces @ Stockyards		
<b>Address:</b>	7275 Wentworth Avenue		
<b>City:</b>	Cleveland		
<b>State Code:</b>	OH		
<b>Zip Code:</b>	44102		
<b>Primary Name (Map):</b>	ARTSPACES @ STOCKYARDS		
<b>Location Address (Map):</b>	7275 WENTWORTH AVENUE		
<b>City Name (Map):</b>	CLEVELAND		
<b>County Name (Map):</b>	CUYAHOGA		
<b>State Code (Map):</b>	OH		
<b>Postal Code (Map):</b>	44102		

**Brownfields Details**

<b>Registry I:</b>	110038697764	<b>EPA ID:</b>	
<b>EPA Region:</b>	05	<b>BF RLF Gra:</b>	
<b>Cat No:</b>	04110002	<b>BF RLF Pil:</b>	
<b>RCRA Handl:</b>		<b>BF Assess :</b>	
<b>RCRA Curre:</b>		<b>BF Cleanup:</b>	
<b>RCRA Remed:</b>		<b>BF Tba Ind:</b>	
<b>RCRA Const:</b>		<b>BF 128a In:</b>	
<b>RCRA EI He:</b>		<b>BF IC Code:</b>	U
<b>RCRA EI Gm:</b>		<b>BF IC Gc I:</b>	U
<b>RCRA Rem 1:</b>		<b>BF IC Ep I:</b>	U
<b>RCRA Ec Gw:</b>		<b>BF IC ID I:</b>	U

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RCRA Ec Ng:					BF IC Pr I:	U
RCRA IC Ep:					FF Brac In:	
RCRA IC Gc:					BF RLF Ind:	
RCRA IC ID:					BF Assess1:	Y
RCRA IC Pr:					BF Multipu:	
FF RCRA In:					BF Awp Ind:	
RCRA Trans:					BF Showcas:	
RCRA Tra 1:					BF 128a P :	
RCRA Ec Co:					LUST Relea:	
RCRA IC Co:					LUST Award:	
RCRA Gpra :					LUST State:	
RCRA Rem 2:					Congressio:	OH-09
RCRA Dru 1:					FD Agency :	
SF Site ID:					FD Listing:	
SF Ec Ind:					FD Non NPL:	
SF El Gm C:					FD RCRA Ha:	
SF El He C:					FD RCRA Ca:	
SF IC Ind:					FD SF NPL :	
SF NPL Cod:					FD FF Ind:	
SF NPL C 1:					FD Ej Code:	
SF Admin F:					FD Brac In:	
FF And Sit:					FD Federal:	
FF SF Ind:					FD Hrs Sco:	
Map Symbol:	B				FD Ongoing:	
Data Refre:	29-Jul-2022				FD NPL Sta:	
GIS Refres:					FD Non N 1:	
New Site:					FD RCRA Gw:	
Repow Ref :			<a href="https://cimc.epa.gov/ords/cimc/f?p=CIMC:REPOWER::::P33_REF:16895">https://cimc.epa.gov/ords/cimc/f?p=CIMC:REPOWER::::P33_REF:16895</a>		FD RCRA He:	
EPAOSC Sit:					FD GMS Sur:	
EPAOSC Res:					FD Hes Sur:	
EPAOSC R 1:					FD SF Site:	
EPAOSC Sta:					FD Brac Ro:	
EPAOSC Inc:					Stimulus S:	
Desc :					Stimulus B:	
Ind Name:						
Cat Name:		Cuyahoga				
Sub Name:		Cuyahoga				
Primary Name:		ARTSPACES @ STOCKYARDS				
RCRA Drupa:						
Url:					<a href="https://obipublic11.epa.gov/analytics/saw.dll?PortalPages&amp;Action=Navigate&amp;col1=ACRES_GRANT_EXPORT.PROPERTY_ID&amp;val1=%2215585.0%22&amp;PortalPath=/shared/CIMC/_portal/CIMC&amp;Page=Profile+Page465145&amp;featype=point&amp;radius=1.0">https://obipublic11.epa.gov/analytics/saw.dll?PortalPages&amp;Action=Navigate&amp;col1=ACRES_GRANT_EXPORT.PROPERTY_ID&amp;val1=%2215585.0%22&amp;PortalPath=/shared/CIMC/_portal/CIMC&amp;Page=Profile+Page465145&amp;featype=point&amp;radius=1.0</a>	
Census Url:					<a href="https://ejsscreen.epa.gov/mapper/demogreportpdf.aspx?report=census2010sf1&amp;coords=-81.737366%2C41.465145&amp;featype=point&amp;radius=1.0">https://ejsscreen.epa.gov/mapper/demogreportpdf.aspx?report=census2010sf1&amp;coords=-81.737366%2C41.465145&amp;featype=point&amp;radius=1.0</a>	
ACS Url:					<a href="https://ejsscreen.epa.gov/mapper/demogreportpdf.aspx?report=acs2017&amp;coords=-81.737366%2C41.465145&amp;featype=point&amp;radius=1.0">https://ejsscreen.epa.gov/mapper/demogreportpdf.aspx?report=acs2017&amp;coords=-81.737366%2C41.465145&amp;featype=point&amp;radius=1.0</a>	
SF Site Na:					UST Status:	
SF Non Npl:					UST Substa:	
SF Non N 1:					UST Landus:	
SF Non N 3:					UST SPA Wa:	
ERR Lat Lo:					UST SPA Fa:	
REPOW BF:	SGW				UST WHPA W:	
REPOW SF:					UST WHPA F:	
REPOW RCRA:					UST Open:	
REPOW Ref1:	16895				UST Closed:	
RCRA Han 1:					LUST ID:	
RCRA Rau I:					Saa Site:	
BF Propert:		15585-				
REPOW Re 1:		<a target="_blank" href="https://cimc.epa.gov/ords/cimc/f?p=CIMC:REPOWER::::P33_REF:16895">RE-Powering Site Profile</a>				
BF Prope 1:		Artspaces @ Stockyards				
SF Non N 2:						
<b>Cleanups In My Community (CIMC)</b>						
Grant ID:	69597513				ASMT Cntrl Sub :	
Grant Type:	Assessment				Cleanup Cntrl Sub :	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>EPA Region:</b>	05				<b>ASMT Asbestos :</b>	
<b>Ownership Entity:</b>					<b>Cleanup Asbestos :</b>	
<b>Latitude Measure:</b>	41.465145				<b>ASMT Pcb's :</b>	Y
<b>Longitude Measure:</b>	-81.737366				<b>Cleanup Pcb's :</b>	
<b>Flag Cleanup Req'd:</b>	N				<b>ASMT Vocs :</b>	Y
<b>Flag IC Required:</b>					<b>Cleanup Vocs :</b>	
<b>Stcntrbg:</b>					<b>ASMT Lead :</b>	
<b>Property Size:</b>	4.13				<b>Cleanup Lead :</b>	
<b>Flag IC in Place:</b>	U				<b>ASMT Oth Metal :</b>	Y
<b>IC in Place Date:</b>					<b>Cleanup Oth Metal :</b>	
<b>Prop Cntrl :</b>					<b>ASMT Pahs :</b>	Y
<b>Gov Cntrl :</b>					<b>Cleanup Pahs :</b>	
<b>Permit Tools :</b>					<b>ASMT Oth Cont:</b>	
<b>Info DevICes :</b>					<b>Cleanup Oth Cont:</b>	
<b>Prop Fnding Type Cd:</b>	Hazardous				<b>ASMT Air :</b>	
<b>Ownshp Changed :</b>	N				<b>Cleanup Air :</b>	
<b>Sfilp Factor :</b>					<b>ASMT Drk Wat:</b>	
<b>Source Mapscale No:</b>					<b>Cleanup Drk Wat:</b>	
<b>Past Cml Acres:</b>					<b>ASMT Grd Water:</b>	Y
<b>Future Cml Acres:</b>					<b>Cleanup Grd Water:</b>	
<b>Past Grnspc Acres:</b>					<b>ASMT Sediments :</b>	
<b>Future Grnspc Acres:</b>					<b>Cleanup Sediments :</b>	
<b>Past Acres:</b>	4.13				<b>ASMT Soil :</b>	Y
<b>Future Acres:</b>					<b>Cleanup Soil :</b>	
<b>Past Res Acres:</b>					<b>ASMT Srf Water :</b>	
<b>Future Res Acres:</b>					<b>Cleanup Srf Water :</b>	
<b>St Enrollment Dt:</b>					<b>Other Media :</b>	
<b>St Enrollment ID:</b>					<b>Unknown Media :</b>	
<b>St NFA Dt:</b>					<b>Ready For Reuse :</b>	N
<b>Assess Petrol Prod :</b>					<b>Assess Amount:</b>	34830
<b>Cleanup Petrol Prod :</b>					<b>Assess Fnd Ent Nm:</b>	
<b>Assess Start Dt:</b>	12/01/2005				<b>Photo Available :</b>	Y
<b>Assess Cmpltn Dt:</b>	05/31/2006				<b>Video Available :</b>	N
<b>Cleanup Start Dt:</b>					<b>Cleanup Acres:</b>	
<b>Cleanup Cmpltn Dt:</b>					<b>Cleanup Amount:</b>	
<b>Redev Start Dt:</b>					<b>Redev Acres:</b>	
<b>Redev Cleanup Jobs:</b>					<b>Redev Amount:</b>	
<b>Grant Recipient Nm:</b>		Cuyahoga County				
<b>PropertyNm:</b>		Artspace @ Stockyards				
<b>Address:</b>		7275 Wentworth Avenue				
<b>City:</b>		Cleveland				
<b>State Code:</b>		OH				
<b>Zip Code:</b>		44102				
<b>Local Parcel No:</b>		006-25-027, 006-28-096, 006-28-102, 006-25-028				
<b>Current Owner:</b>		Simkins Industries Inc. and Cleveland Land Bank				
<b>IC Data Address:</b>						
<b>Horizontal Collection Method:</b>						
<b>Reference Point:</b>						
<b>Horizontal Reference Datum:</b>		World Geodetic System of 1984				
<b>Other Description:</b>						
<b>Other Desc Cleaned Up:</b>						
<b>Assess Type:</b>		Phase I Environmental Assessment				
<b>Assess Fund Entity:</b>		US EPA - Brownfields Assessment Cooperative Agreement				
<b>Cleanup Funding EntityNm:</b>						
<b>Cleanup Fund Entity:</b>						
<b>Redev Funding Entity Nm:</b>						
<b>Desc Hist:</b>		A Phase I ESA, completed in June 2004 by Partners Environmental, Inc. revealed manufacturing activities at the site date back to the early 1900's and that these uses may have adversely impacted the property. Numerous drums and containers, suspected asbestos containing materials, and suspected lead paint remain at the site. The report recommended a limited Phase II, a waste characterization study and management of materials, an Asbestos Survey and a Lead Based Paint Survey is conducted.				
<b>Accmplisht Cnt Flag:</b>	Y				<b>Vacant Housing:</b>	455
<b>Coop Agreement No:</b>	96530401				<b>Vacant Housing Pct:</b>	20.4
<b>Past Mltistry Acres:</b>					<b>Total Unemployed:</b>	522
<b>Ftr Multistory Acres:</b>					<b>Unemployed Pct:</b>	10.47
<b>Assess Cadmium :</b>					<b>Radius:</b>	.5
<b>Clnup Cadmium :</b>					<b>Actvy Funded:</b>	
<b>Assess Chromium :</b>					<b>Redev Lvrgd Srcs:</b>	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Clnup Chromium :					AA Amt Funding:	
Assess Copper :					Flag Clnup Trmt Tech:	
Clnup Copper :					Excavation Disposal:	
Assess Iron :					Extrctn of Cntmnts:	
Clnup Iron :					Removal of Mats:	
Assess Nickel :					Rdctn of Cntmnts:	
Clnup Nickel :					Clnup of Structures:	
Assess Selenium :					Env EC Required:	
Clnup Selenium :					Flag EC Cover Tech:	
Assess Mercury :					Flag EC Security:	
Clnup Mercury :					Flag EC Immblyztn:	
Assess ArsenIC :					Flag EC Eng Barriers:	
Clnup ArsenIC :					Flag EC Other:	
Assess Bldg Mats :					Env IC in Place:	U
Clnup Bldg Mats :					Env EC in Place:	
Assess oorair :					Env Clnup Jobs:	
Clnup oorair :					Sect 128 A State Trbl:	
Assess None :					Multipurpose:	
Clnup None :					Clnup Cst Shr Amt:	
Assess Pesticides :					RLF Loan Amount:	
Clnup Pesticides :					RLF Ln Cst Shr Amt:	
Assess Unknown :					Pro Income Amt:	
Clnup Unknown :					Dt RLF Loan Signed:	
Assess Svocs :					Repayment Period:	
Clnup Svocs :					Interest Rate:	
Clnup Unkn Media :					RLF Subgrant Amt:	
Redev Cmpltn Date:					Cost Share Amt:	
Pro Code:	BF				Env Pro Income Amt:	
FCA Fy:	FY06				Dt RLF Sbrgrnt Signd:	
Flag EC in Place:					Clnup Actvy Funded:	
Flag EC Required:					Below Poverty:	2034
RFR Notation:					Below Poverty Pct:	40.81
Gpa Type ID:	1				Median Income:	4415
Clnup Doc:	N				Low Income:	3614
Awp Catalyst Yn:					Low Income Pct:	72.51
Flag Prop Not Enrld:	Y					
Redev Fund Entity:						
Gpa Type Desc:		Phase I Environmental Assessment				
AA Actvy Funded:						
AA Source of Funding:						
Clnup Trmt Tech Info:						
EC Data Address:						
EC Addl Info:						
Env IC Data Address:						
Other Forms of Doc:						
IC Addl Info:						
Highlights:					Stockyards Redevelopment Organization has proposed redeveloping the former Simkins Box Company facility into a mixed-use art campus including 60 live-work units, office space, retail/art gallery space, and parking/park improvements. The Phase II Report concluded that as long as the reuse is commercial/industrial no remediation is necessary for the soil. Residential reuse would require remediation. Former Use: A Phase I ESA, completed in June 2004 by Partners Environmental, Inc. revealed manufacturing activities at the site date back to the early 1900' s and that these uses may have adversely impacted the property. Numerous drums and containers, suspected asbestos containing materials, and suspected lead paint remain at the site. The report recommended a limited Phase II, a waste characterization study and management of materials, an Asbestos Survey and a Lead Based Paint Survey is conducted.	
Property Alias:						
Ctmnt Found:		Other Metals PAHs PCBs VOCs				
Ctmnt Cleanedup:						
Ctmnt Rec:						
Media Affected:						
					Ground Water Soil	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Site ID:	0506641			FIPS Code:	39035
EPA ID:	OHD097623961			Cong District:	20
Superfund Alt Agmt:	No			Region:	05
Federal Facility:	No			County:	CUYAHOGA
FF Docket:	No				
NPL:	Not on the NPL				
Non NPL Status:	Deferred to RCRA (Subtitle C)				

**Action Information**

Operable Units:	00			Start Actual:	06/18/1991
Action Code:	DS			Finish Actual:	06/18/1991
Action Name:	DISCVRY			Qual:	
SEQ:	1			Curr Action Lead:	St Perf
Operable Units:	00			Start Actual:	
Action Code:	PA			Finish Actual:	02/21/1992
Action Name:	PA			Qual:	D
SEQ:	1			Curr Action Lead:	EPA Perf
Operable Units:	00			Start Actual:	
Action Code:	VS			Finish Actual:	12/28/1995
Action Name:	ARCH SITE			Qual:	
SEQ:	1			Curr Action Lead:	EPA Perf In-Hse

<a href="#">4</a>	10 of 10	SW	0.02 / 92.32	701.86 / 2	SIMKINS INDUSTRIES 7275 WENTWORTH AVE CLEVELAND OH 44102	RCRA NON GEN
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EPA Handler ID:	OHD097623961
Gen Status Universe:	No Report
Contact Name:	
Contact Address:	
Contact Phone No and Ext:	
Contact Email:	
Contact Country:	
County Name:	CUYAHOGA
EPA Region:	05
Land Type:	
Receive Date:	20200713
Location Latitude:	
Location Longitude:	

**Violation/Evaluation Summary**

**Note:** VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated Sep, 2022.

**Violation Details**

Found Violation:	Yes
Citation:	
Violation Short Description:	Generators - General
Violation Type:	262.A
Violation Determined Date:	19880415
Scheduled Compliance Date:	19880621
Return to Compliance:	Observed
Actual Return to Compl:	19890309
Violation Responsible Agency:	State

**Enforcement Details**

Enforcement Type:	120
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**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19880421  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** LDR - General  
**Violation Type:** 268.A  
**Violation Determined Date:** 19880415  
**Scheduled Compliance Date:**  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19880927  
**Violation Responsible Agency:** State

**Evaluation Details**

**Evaluation Start Date:** 19880415  
**Evaluation Type Description:** FOCUSED COMPLIANCE INSPECTION  
**Violation Short Description:** LDR - General  
**Return to Compliance Date:** 19880927  
**Evaluation Agency:** State

**Evaluation Start Date:** 19890303  
**Evaluation Type Description:** COMPLIANCE EVALUATION INSPECTION ON-SITE  
**Violation Short Description:**  
**Return to Compliance Date:**  
**Evaluation Agency:** State

**Evaluation Start Date:** 19880415  
**Evaluation Type Description:** COMPLIANCE EVALUATION INSPECTION ON-SITE  
**Violation Short Description:** Generators - General  
**Return to Compliance Date:** 19890309  
**Evaluation Agency:** State

**Evaluation Start Date:** 19880714  
**Evaluation Type Description:** COMPLIANCE SCHEDULE EVALUATION  
**Violation Short Description:**  
**Return to Compliance Date:**  
**Evaluation Agency:** State

**Handler Summary**

**Importer Activity:** No  
**Mixed Waste Generator:** No  
**Transporter Activity:** No  
**Transfer Facility:** No  
**Onsite Burner Exemption:** No  
**Furnace Exemption:** No  
**Underground Injection Activity:** No  
**Commercial TSD:** No  
**Used Oil Transporter:** No  
**Used Oil Transfer Facility:** No  
**Used Oil Processor:** No  
**Used Oil Refiner:** No  
**Used Oil Burner:** No  
**Used Oil Market Burner:** No  
**Used Oil Spec Marketer:** No

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
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**Hazardous Waste Handler Details**

**Sequence No:** 1  
**Receive Date:** 20200713  
**Handler Name:** SIMKINS INDUSTRIES  
**Source Type:** Implementer  
**Federal Waste Generator Code:** N  
**Generator Code Description:** Not a Generator, Verified

**Hazardous Waste Handler Details**

**Sequence No:** 1  
**Receive Date:** 19820310  
**Handler Name:** SIMKINS INDUSTRIES  
**Source Type:** Part A  
**Federal Waste Generator Code:** N  
**Generator Code Description:** Not a Generator, Verified

**Waste Code Details**

**Hazardous Waste Code:** K086  
**Waste Code Description:** SOLVENT WASHES AND SLUDGES, CAUSTIC WASHES AND SLUDGES, OR WATER WASHES AND SLUDGES FROM CLEANING TUBS AND EQUIPMENT USED IN THE FORMULATION OF INK FROM PIGMENTS, DRIERS, SOAPS, AND STABILIZERS CONTAINING CHROMIUM AND LEAD.

**Hazardous Waste Code:** D001  
**Waste Code Description:** IGNITABLE WASTE

**Hazardous Waste Code:** F003  
**Waste Code Description:** THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

**Hazardous Waste Code:** F004  
**Waste Code Description:** THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

**Hazardous Waste Handler Details**

**Sequence No:** 1  
**Receive Date:** 19911025  
**Handler Name:** SIMKINS INDUSTRIES  
**Source Type:** Notification  
**Federal Waste Generator Code:** 2  
**Generator Code Description:** Small Quantity Generator

**Waste Code Details**

**Hazardous Waste Code:** D018  
**Waste Code Description:** BENZENE

**Hazardous Waste Code:** D001  
**Waste Code Description:** IGNITABLE WASTE

**Hazardous Waste Code:** D000

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Waste Code Description: DESCRIPTION  
 Hazardous Waste Code: D039  
 Waste Code Description: TETRACHLOROETHYLENE

**Owner/Operator Details**

<b>Owner/Operator Ind:</b>	Current Operator	<b>Street No:</b>	
<b>Type:</b>	Private	<b>Street 1:</b>	7275 WENTWORTH AVE
<b>Name:</b>	SIMKINS INDUSTRIES INC	<b>Street 2:</b>	
<b>Date Became Current:</b>		<b>City:</b>	CITY NOT REPORTED
<b>Date Ended Current:</b>		<b>State:</b>	OH
<b>Phone:</b>	216-631-2300	<b>Country:</b>	
<b>Source Type:</b>	Part A	<b>Zip Code:</b>	99998

<b>Owner/Operator Ind:</b>	Current Owner	<b>Street No:</b>	
<b>Type:</b>	Private	<b>Street 1:</b>	260 EAST ST
<b>Name:</b>	SIMKINS INDUSTRIES INC	<b>Street 2:</b>	
<b>Date Became Current:</b>		<b>City:</b>	NEW HAVEN
<b>Date Ended Current:</b>		<b>State:</b>	CT
<b>Phone:</b>	203-787-7171	<b>Country:</b>	
<b>Source Type:</b>	Notification	<b>Zip Code:</b>	06511

**Historical Handler Details**

Receive Dt: 19820310  
 Generator Code Description: Not a Generator, Verified  
 Handler Name: SIMKINS INDUSTRIES

Receive Dt: 19911025  
 Generator Code Description: Small Quantity Generator  
 Handler Name: SIMKINS INDUSTRIES

<u>5</u>	1 of 2	SSE	0.07 / 383.88	705.40 / 6	SHAKER VALLEY FOODS 3304 W 67TH PL CLEVELAND OH 44128	LUST
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<b>Release No:</b>	18010422 - N00001	<b>Release No (Map):</b>	18010422-N00001
<b>Facility Name:</b>	SHAKER VALLEY FOODS	<b>Fac Name (Map):</b>	SHAKER VALLEY FOODS
<b>Facility Address:</b>	3304 W 67TH PL	<b>Fac Address (Map):</b>	3304 W 67TH PL
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44128
<b>Facility ZIP:</b>	44128	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.46464
<b>Facility Latitude:</b>	41.465185	<b>Longitude (Map):</b>	-81.73416
<b>Facility Longitude:</b>	-81.733349	<b>Fac ID (BUSTR2):</b>	18010422
<b>Release No (OTTER):</b>	18010422-N00001	<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	SHAKER VALLEY FOODS	<b>Fac Name (BUSTR2):</b>	SHAKER VALLEY FOODS
<b>FacAddress (OTTER):</b>	3304 W 67TH PL	<b>Address (BUSTR2):</b>	3304 W 67TH PL
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44128
<b>Fac ZIP (OTTER):</b>	44128	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.46518
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.73335
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18010422-N00001
<b>Fac Name (BUSTR):</b>	SHAKER VALLEY FOODS	<b>Fac Addr (BUSTR):</b>	3304 W 67TH PL
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44128	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.465185	<b>Longitude (BUSTR):</b>	-81.733349
<b>Facility (OTTER):</b>	18010422 (SHAKER VALLEY FOODS)		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer); All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGRI) (BUSTR2)		

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	12/26/2001
<b>LTF Status:</b>	6 Closure of regulated UST	<b>Review Date:</b>	12/26/2001
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	11/29/1996	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	186149800.0	<b>Date Reported:</b>	11/29/1996
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	SHAKER VALLEY FOODS
<b>Facility:</b>	18010422 (SHAKER VALLEY FOODS)		
<b>Facility Link:</b>	https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#13155		
<b>Release Link:</b>	https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33699		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73416
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S90
<b>Label:</b>	18010422 - N00001 SHAKER VALLEY FOODS	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18010422 - N00001	<b>Facility Z:</b>	44128
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	3304 W 67th Pl	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73416
<b>ZIP Out:</b>	44102-5243	<b>Y:</b>	41.46464
<b>Lat:</b>	41.46464		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	21889	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18010422	<b>Address:</b>	3304 W 67TH PL
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	6 Closure of regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44128
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.46518
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.73335
<b>Current Fac Name:</b>	SHAKER VALLEY FOODS		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	32104	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	186149800.0	<b>LTF:</b>	6 Closure of regulated UST
<b>Last Review Date:</b>	12/26/2001	<b>Rating:</b>	1
<b>Release Date:</b>	11/29/1996	<b>Facility Name:</b>	SHAKER VALLEY FOODS
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	3304 W 67TH PL
<b>Last Update Date:</b>	5/14/2021	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	12/26/2001	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44128
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.465185
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.733349
<b>Rules:</b>	1992		

<a href="#">5</a>	2 of 2	SSE	0.07 / 383.88	705.40 / 6	SHAKER VALLEY FOODS 3304 W 67TH PL CLEVELAND OH 44128	UST
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<b>Facility (OTTER):</b>		<b>Facility No (Map):</b>	18010422
<b>Fac No (OTTER):</b>	18010422	<b>Fac Name (Map):</b>	SHAKER VALLEY FOODS
<b>Fac Name (OTTER):</b>	SHAKER VALLEY FOODS	<b>Address (Map):</b>	3304 W 67TH PL
<b>Address (OTTER):</b>	3304 W 67TH PL	<b>City (Map):</b>	CLEVELAND

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
City (OTTER):	CLEVELAND				State (Map):	Ohio
State (OTTER):					Zip (Map):	44128
Zip (OTTER):	44128				County (Map):	Cuyahoga
County (OTTER):	Cuyahoga				Latitude (Map):	41.465185
Latitude (OTTER):					Longitude (Map):	-81.733349
Longitude (OTTER):					Fac ID (BUSTR2):	
Fac No (BUSTR):	18010422				Fac Name (BUSTR2):	
Fac Name (BUSTR):	SHAKER VALLEY FOODS				Address (BUSTR2):	
Address (BUSTR):	3304 W 67TH PL				City (BUSTR2):	
City (BUSTR):	CLEVELAND				Zip (BUSTR2):	
State (BUSTR):	Ohio				Latitude (BUSTR2):	
Zip (BUSTR):	44128				Longitude (BUSTR2):	
County (BUSTR2):						
County (BUSTR):	Cuyahoga					
Latitude (BUSTR):	41.46464					
Longitude (BUSTR):	-81.73416					
Data Source:	Ohio Tank Tracking & Environmental Regulations (OTTER) Search; Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks; BUSTR: All Facility Tanks					

#### Ohio Tank Tracking & Environmental Regulations (OTTER) Search

Old Incident ID:	186149800.0	Date Reported:	11/29/1996
Tank Status:	No Tanks Available	Own Business Name:	SHAKER VALLEY FOODS
Facility URL:	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#13155">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#13155</a>		
Release No URL:	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33699">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33699</a>		

#### Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks

Tank No:	T00001	Date Last Used:	
Status:	REM - Removed	UST Capacity:	10000
UST:	UST	Tank Content:	Gasoline
Regulated:	YES	Abandon Approve:	
Facility Type:	Unknown	UST Configurations:	
Installation Date:		CAS No:	
Date Removed:	09/01/1989	Sensitive Area:	NO
Date TCL Closed:		Dt of Sensitivity:	
Owner Name:			
Owner Address:			
Owner City:			
Owner State:			
Owner Zip:			
Construction:			
Construction Comments:			
Overfill Prevention:			
Overfill Prev Comments:			
Prmry Release Detection:			
2ndry Release Detection:			
Release Detect Comments:			
Spill Prevention Manholes:			
Spill Prev Manhole Comment:			
Corrosion Protections:			
Corrosion Protect Comments:			
Piping Configuration:			
Piping Config Comment:			
Piping Styles:			
Piping Construction:			
Piping Construct Comments:			
Piping Corrosion Protection:			
Piping Corr Protect Comments:			
Piping Release Detection:			
Piping Rel Detect Comments:			
Comments:			
Tank No:	T00002	Date Last Used:	
Status:	REM - Removed	UST Capacity:	10000
UST:	UST	Tank Content:	Gasoline
Regulated:	YES	Abandon Approve:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>Facility Type:</b>	Unknown	<b>UST Configurations:</b>	
<b>Installation Date:</b>		<b>CAS No:</b>	
<b>Date Removed:</b>	09/01/1989	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>			
<b>Owner Address:</b>			
<b>Owner City:</b>			
<b>Owner State:</b>			
<b>Owner Zip:</b>			
<b>Construction:</b>			
<b>Construction Comments:</b>			
<b>Overfill Prevention:</b>			
<b>Overfill Prev Comments:</b>			
<b>Prmry Release Detection:</b>			
<b>2ndry Release Detection:</b>			
<b>Release Detect Comments:</b>			
<b>Spill Prevention Manholes:</b>			
<b>Spill Prev Manhole Comment:</b>			
<b>Corrosion Protections:</b>			
<b>Corrosion Protect Comments:</b>			
<b>Piping Configuration:</b>			
<b>Piping Config Comment:</b>			
<b>Piping Styles:</b>			
<b>Piping Construction:</b>			
<b>Piping Construct Comments:</b>			
<b>Piping Corrosion Protection:</b>			
<b>Piping Corr Protect Comments:</b>			
<b>Piping Release Detection:</b>			
<b>Piping Rel Detect Comments:</b>			
<b>Comments:</b>			

**BUSTR: All Facility Tanks**

<b>Tank No:</b>	T00002	<b>Address Out:</b>	3304 W 67th Pl
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	9/1/1989	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5243
<b>UST Capacity:</b>	10000	<b>Lat:</b>	41.46464
<b>Tank Content:</b>	Gasoline	<b>Lon:</b>	-81.73416
<b>Label:</b>	18010422 SHAKER VALLEY FOODS	<b>Match:</b>	S90
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	MAF7
<b>State:</b>	Ohio	<b>LOC CONF:</b>	1
<b>X:</b>			
<b>Y:</b>			

<b>Tank No:</b>	T00001	<b>Address Out:</b>	3304 W 67th Pl
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	9/1/1989	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5243
<b>UST Capacity:</b>	10000	<b>Lat:</b>	41.46464
<b>Tank Content:</b>	Gasoline	<b>Lon:</b>	-81.73416
<b>Label:</b>	18010422 SHAKER VALLEY FOODS	<b>Match:</b>	S90
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	MAF7
<b>State:</b>	Ohio	<b>LOC CONF:</b>	1
<b>X:</b>			
<b>Y:</b>			

<u>6</u>	1 of 5	ESE	0.10 / 546.11	702.62 / 3	KMART # 3292 3250 W 65TH STREET CLEVELAND OH 44102	RCRA VSQG
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<b>EPA Handler ID:</b>	OHR000153999
<b>Gen Status Universe:</b>	VSG
<b>Contact Name:</b>	DAWN A JESS
<b>Contact Address:</b>	3333 BEVERLY RD , , HOFFMAN ESTATES , IL, 60179 , US
<b>Contact Phone No and Ext:</b>	847-286-8616
<b>Contact Email:</b>	DJESS1@SEARSHC.COM

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Contact Country:** US  
**County Name:** CUYAHOGA  
**EPA Region:** 05  
**Land Type:** Private  
**Receive Date:** 20090518  
**Location Latitude:** 41.465178  
**Location Longitude:** -81.732186

**Violation/Evaluation Summary**

**Note:** NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

**Handler Summary**

**Importer Activity:** No  
**Mixed Waste Generator:** No  
**Transporter Activity:** No  
**Transfer Facility:** No  
**Onsite Burner Exemption:** No  
**Furnace Exemption:** No  
**Underground Injection Activity:** No  
**Commercial TSD:** No  
**Used Oil Transporter:** No  
**Used Oil Transfer Facility:** No  
**Used Oil Processor:** No  
**Used Oil Refiner:** No  
**Used Oil Burner:** No  
**Used Oil Market Burner:** No  
**Used Oil Spec Marketer:** No

**Hazardous Waste Handler Details**

**Sequence No:** 1  
**Receive Date:** 20090518  
**Handler Name:** KMART # 3292  
**Federal Waste Generator Code:** 3  
**Generator Code Description:** Very Small Quantity Generator  
**Source Type:** Notification

**Waste Code Details**

**Hazardous Waste Code:** D001  
**Waste Code Description:** IGNITABLE WASTE  
  
**Hazardous Waste Code:** D002  
**Waste Code Description:** CORROSIVE WASTE

**Owner/Operator Details**

<b>Owner/Operator Ind:</b> Current Operator <b>Type:</b> Private <b>Name:</b> KMART <b>Date Became Current:</b> 19751120 <b>Date Ended Current:</b> <b>Phone:</b> 847-286-8616 <b>Source Type:</b> Notification	<b>Street No:</b> <b>Street 1:</b> 3250 W 65TH ST <b>Street 2:</b> <b>City:</b> CLEVELAND <b>State:</b> OH <b>Country:</b> US <b>Zip Code:</b> 44102
<b>Owner/Operator Ind:</b> Current Owner <b>Type:</b> Private <b>Name:</b> DANIEL G CAMIN ENTERPRISES <b>Date Became Current:</b> 19750228 <b>Date Ended Current:</b>	<b>Street No:</b> <b>Street 1:</b> P O BOX 10234 <b>Street 2:</b> <b>City:</b> PITTSBURGH <b>State:</b> PA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Phone:	412-661-5233				Country:	US
Source Type:	Notification				Zip Code:	15232

6      2 of 5      ESE      0.10 / 546.11      702.62 / 3      **KMART #3292  
3250 W 65TH ST  
CLEVELAND OH 44102**      **DELISTED  
LST**

**Delisted Regulated and Non-Regulated Leaking Underground Storage Tanks (LUST)**

<b>Incident No:</b>		<b>Class:</b>	D
<b>Release No:</b>	18000311 - N00001	<b>Class Desc:</b>	A viable RP has been identified
<b>Status:</b>	RPT: a possible incident is reported	<b>Rules:</b>	1992
<b>Sub Status:</b>	Approved	<b>Coordinator:</b>	Charles Zepp
<b>Release Date:</b>	11/20/1992	<b>County:</b>	Cuyahoga
<b>LTF:</b>	5 Petro incident, not from spill/overflow/release	<b>Facility Latitude:</b>	41.465598
<b>Last Update:</b>	Charles Zepp	<b>Facility Longitude:</b>	-81.730311
<b>Last Update Date:</b>	4/7/2017	<b>Original Source:</b>	NLUT
<b>Last Status Update:</b>	7/12/2006	<b>Record Date:</b>	09-OCT-2019
<b>Priority:</b>	2		

6      3 of 5      ESE      0.10 / 546.11      702.62 / 3      **3250 W 65TH ST  
CLEVELAND OH**      **SPILLS**

<b>Spill ID:</b>		<b>District:</b>	NE
<b>Spill No:</b>		<b>County:</b>	18
<b>4 Digit No:</b>	3503	<b>City Twp:</b>	CLEVELAND
<b>Phone Followup:</b>	NO	<b>Reported On:</b>	8/20/1998 00:00:00
<b>Zipcode:</b>		<b>Spill Year:</b>	1998
<b>Latitude:</b>		<b>Spill Month:</b>	8
<b>Longitude:</b>		<b>Spill Month N:</b>	
<b>Spill DOY:</b>		<b>Spill DOM:</b>	
<b>Spiller Report:</b>		<b>Affiliation:</b>	
<b>IIR Name:</b>			
<b>Location:</b>	3250 W 65TH ST		

**Historical Release Details**

<b>Media Affected:</b>		<b>Reported By:</b>	DAVE PEREZ
<b>Actual Amount:</b>		<b>Spill Month:</b>	8
<b>Unit of Measure:</b>		<b>Spill Year:</b>	1998
<b>Product Name:</b>	ORPHAN DRUM		
<b>Entity:</b>	UNK		

6      4 of 5      ESE      0.10 / 546.11      702.62 / 3      **KMART #3292  
3250 W 65TH ST  
CLEVELAND OH 44102**      **UST**

<b>Facility (OTTER):</b>		<b>Facility No (Map):</b>	18000311
<b>Fac No (OTTER):</b>	18000311	<b>Fac Name (Map):</b>	KMART #3292
<b>Fac Name (OTTER):</b>	KMART #3292	<b>Address (Map):</b>	3250 W 65TH ST
<b>Address (OTTER):</b>	3250 W 65TH ST	<b>City (Map):</b>	CLEVELAND
<b>City (OTTER):</b>	CLEVELAND	<b>State (Map):</b>	Ohio
<b>State (OTTER):</b>		<b>Zip (Map):</b>	44102
<b>Zip (OTTER):</b>	44102	<b>County (Map):</b>	Cuyahoga
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (Map):</b>	41.465598
<b>Latitude (OTTER):</b>		<b>Longitude (Map):</b>	-81.730311
<b>Longitude (OTTER):</b>		<b>Fac ID (BUSTR2):</b>	18000311
<b>Fac No (BUSTR):</b>	18000311	<b>Fac Name (BUSTR2):</b>	KMART #3292
<b>Fac Name (BUSTR):</b>	KMART #3292	<b>Address (BUSTR2):</b>	3250 W 65TH ST
<b>Address (BUSTR):</b>	3250 W 65TH ST	<b>City (BUSTR2):</b>	CLEVELAND
<b>City (BUSTR):</b>	CLEVELAND	<b>Zip (BUSTR2):</b>	44102
<b>State (BUSTR):</b>	Ohio	<b>Latitude (BUSTR2):</b>	41.4656

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Zip (BUSTR):</b>	44102				<b>Longitude (BUSTR2):</b> -81.73031	
<b>County (BUSTR2):</b>		CUY				
<b>County (BUSTR):</b>		Cuyahoga				
<b>Latitude (BUSTR):</b>		41.46518				
<b>Longitude (BUSTR):</b>		-81.73218				
<b>Data Source:</b>		Ohio Tank Tracking & Environmental Regulations (OTTER) Search; Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks; BUSTR: All Facility Tanks; Map Services Directory: BUSTR - UST Locations (BUSTR/OGRIP)				

**Ohio Tank Tracking & Environmental Regulations (OTTER) Search**

<b>Old Incident ID:</b>		<b>Date Reported:</b>	
<b>Tank Status:</b>	No Tanks Available	<b>Own Business Name:</b>	SEARS HOLDING GROUP
<b>Facility URL:</b>	https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#7770		
<b>Release No URL:</b>			

**Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks**

<b>Tank No:</b>	T00001	<b>Date Last Used:</b>	11/20/1992
<b>Status:</b>	REM - Removed	<b>UST Capacity:</b>	1000
<b>UST:</b>	UST	<b>Tank Content:</b>	Used Oil
<b>Regulated:</b>	YES	<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Unknown	<b>UST Configurations:</b>	
<b>Installation Date:</b>		<b>CAS No:</b>	
<b>Date Removed:</b>	11/20/1992	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>	SEARS HOLDING GROUP		
<b>Owner Address:</b>	3333 BEVERLY RD		
<b>Owner City:</b>	HOFFMAN ESTATES		
<b>Owner State:</b>	IL		
<b>Owner Zip:</b>	60179		
<b>Construction:</b>	BM - Bare Metal		
<b>Construction Comments:</b>	Steel		
<b>Overfill Prevention:</b>			
<b>Overfill Prev Comments:</b>	OverFill Spill: No		
<b>Prmry Release Detection:</b>	AMO - Alternative Method (Other, explain)		
<b>2ndry Release Detection:</b>			
<b>Release Detect Comments:</b>	RDTank: / RDLine:		
<b>Spill Prevention Manholes:</b>	NP - None Present		
<b>Spill Prev Manhole Comment:</b>	No		
<b>Corrosion Protections:</b>			
<b>Corrosion Protect Comments:</b>			
<b>Piping Configuration:</b>			
<b>Piping Config Comment:</b>			
<b>Piping Styles:</b>	NA - Not Applicable		
<b>Piping Construction:</b>	BM - Bare Metal		
<b>Piping Construct Comments:</b>	Galvanized Steel		
<b>Piping Corrosion Protection:</b>	OTH - Other (explain)		
<b>Piping Corr Protect Comments:</b>			
<b>Piping Release Detection:</b>	OTH - Other(explain)		
<b>Piping Rel Detect Comments:</b>			
<b>Comments:</b>			

**BUSTR: All Facility Tanks**

<b>Tank No:</b>	T00001	<b>Address Out:</b>	3250 W 65th St
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	11/20/1992	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5510
<b>UST Capacity:</b>	1000	<b>Lat:</b>	41.46518
<b>Tank Content:</b>	Used Oil	<b>Lon:</b>	-81.73218
<b>Label:</b>	18000311 KMART #3292	<b>Match:</b>	S80
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	MAF7
<b>State:</b>	Ohio	<b>LOC CONF:</b>	1
<b>X:</b>			
<b>Y:</b>			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	41573	<b>Facility Name:</b>	KMART #3292
<b>Facility ID:</b>	18000311	<b>Facility Co:</b>	
<b>Tank ID:</b>	T00001	<b>Address:</b>	3250 W 65TH ST
<b>Facility Status:</b>	Inactive	<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	11/20/92	<b>Zip:</b>	44102
<b>Inspection Date:</b>		<b>County:</b>	CUY
<b>Status:</b>	REM	<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687	<b>Latitude DD Begin:</b>	41.4656
<b>Capacity:</b>	1000	<b>Longitude DD Begin:</b>	-81.73031
<b>Content:</b>	Used Oil		

<u>6</u>	5 of 5	ESE	0.10 / 546.11	702.62 / 3	KMART #3292 3250 W 65TH ST CLEVELAND OH 44102	LUST
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<b>Release No:</b>	18000311 - N00001	<b>Release No (Map):</b>	18000311-N00001
<b>Facility Name:</b>	KMART #3292	<b>Fac Name (Map):</b>	KMART #3292
<b>Facility Address:</b>	3250 W 65TH ST	<b>Fac Address (Map):</b>	3250 W 65TH ST
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.46518
<b>Facility Latitude:</b>	41.465598	<b>Longitude (Map):</b>	-81.73218
<b>Facility Longitude:</b>	-81.730311	<b>Fac ID (BUSTR2):</b>	
<b>Release No (OTTER):</b>		<b>IncidntID (BUSTR2):</b>	
<b>Fac Name (OTTER):</b>		<b>Fac Name (BUSTR2):</b>	
<b>FacAddress (OTTER):</b>		<b>Address (BUSTR2):</b>	
<b>Fac City (OTTER):</b>		<b>City (BUSTR2):</b>	
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	
<b>Fac ZIP (OTTER):</b>		<b>County (BUSTR2):</b>	
<b>County (OTTER):</b>		<b>Latitude (BUSTR2):</b>	
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	
<b>Fac Name (BUSTR):</b>		<b>Fac Addr (BUSTR):</b>	
<b>Fac City (BUSTR):</b>		<b>Fac State (BUSTR):</b>	
<b>Fac ZIP (BUSTR):</b>		<b>Fac County (BUSTR):</b>	
<b>Latitude (BUSTR):</b>		<b>Longitude (BUSTR):</b>	
<b>Facility (OTTER):</b>			
<b>Data Source:</b>	Map Services Directory: BUSTR (MapServer): All Environmental (MAP)		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73218
<b>FR Status:</b>	RPT: a possible incident is reported	<b>Match:</b>	S80
<b>Label:</b>	18000311 - N00001 KMART #3292	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18000311 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	3250 W 65th St	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73218
<b>ZIP Out:</b>	44102-5510	<b>Y:</b>	41.46518
<b>Lat:</b>	41.46518		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	19817	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>		<b>LTF:</b>	5 Petro incident, not from spill/overflow/release
<b>Last Review Date:</b>	4/7/2017	<b>Rating:</b>	0
<b>Release Date:</b>	11/20/1992	<b>Facility Name:</b>	KMART #3292
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	3250 W 65TH ST
<b>Last Update Date:</b>	4/7/2017	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	RPT: a possible incident is reported	<b>Facility State:</b>	Ohio

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Last Status Update:</b>	7/12/2006				<b>County:</b> Cuyahoga	
<b>Substatus:</b>	Approved				<b>Facility ZIP:</b> 44102	
<b>Priority:</b>	2				<b>Facility Latitude:</b> 41.465598	
<b>Class:</b>	D				<b>Facility Longitude:</b> -81.730311	
<b>Rules:</b>	1992					

7 1 of 4 SSW 0.11 / 591.03 715.27 / 16 LAMSON & SESSIONS CO THE 7000 DENISON AVE CLEVELAND OH 44102 RCRA NON GEN

**EPA Handler ID:** OHD092621002  
**Gen Status Universe:** No Report  
**Contact Name:** BEN BRENNEMAN  
**Contact Address:** 7000 DENISON AVE , , CLEVELAND , OH, 44102 , US  
**Contact Phone No and Ext:** 216-961-7100  
**Contact Email:**  
**Contact Country:** US  
**County Name:** CUYAHOGA  
**EPA Region:** 05  
**Land Type:** Other  
**Receive Date:** 19800804  
**Location Latitude:**  
**Location Longitude:**

Violation/Evaluation Summary

**Note:** NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

**Importer Activity:** No  
**Mixed Waste Generator:** No  
**Transporter Activity:** No  
**Transfer Facility:** No  
**Onsite Burner Exemption:** No  
**Furnace Exemption:** No  
**Underground Injection Activity:** No  
**Commercial TSD:** No  
**Used Oil Transporter:** No  
**Used Oil Transfer Facility:** No  
**Used Oil Processor:** No  
**Used Oil Refiner:** No  
**Used Oil Burner:** No  
**Used Oil Market Burner:** No  
**Used Oil Spec Marketer:** No

Hazardous Waste Handler Details

**Sequence No:** 1  
**Receive Date:** 19800804  
**Handler Name:** LAMSON & SESSIONS CO THE  
**Source Type:** Notification  
**Federal Waste Generator Code:** N  
**Generator Code Description:** Not a Generator, Verified

Owner/Operator Details

**Owner/Operator Ind:** Current Operator  
**Type:** Private  
**Name:** NAME NOT REPORTED  
**Date Became Current:**  
**Date Ended Current:**

**Street No:**  
**Street 1:** ADDRESS NOT REPORTED  
**Street 2:**  
**City:** CITY NOT REPORTED  
**State:** AK

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Phone:	312-555-1212				Country:	
Source Type:	Notification				Zip Code:	99998
Owner/Operator Ind:	Current Owner				Street No:	
Type:	Private				Street 1:	ADDRESS NOT REPORTED
Name:	NAME NOT REPORTED				Street 2:	
Date Became Current:					City:	CITY NOT REPORTED
Date Ended Current:					State:	AK
Phone:	312-555-1212				Country:	
Source Type:	Notification				Zip Code:	99998

7      2 of 4      **SSW**      0.11 / 591.03      715.27 / 16      **PARK OHIO PRODUCTS INC  
7000 DENISON AVE  
CLEVELAND OH 44102**      **RCRA VSQG**

EPA Handler ID: OHD980898175  
Gen Status Universe: VSG  
Contact Name: ALEX H SMITH  
Contact Address: US  
Contact Phone No and Ext: 216-334-1102  
Contact Email: asmith@park-ohio.com  
Contact Country: US  
County Name: CUYAHOGA  
EPA Region: 05  
Land Type: Private  
Receive Date: 20040301  
Location Latitude: 41.463369  
Location Longitude: -81.735404

**Violation/Evaluation Summary**

**Note:** NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

**Handler Summary**

Importer Activity: No  
Mixed Waste Generator: No  
Transporter Activity: No  
Transfer Facility: No  
Onsite Burner Exemption: No  
Furnace Exemption: No  
Underground Injection Activity: No  
Commercial TSD: No  
Used Oil Transporter: No  
Used Oil Transfer Facility: No  
Used Oil Processor: No  
Used Oil Refiner: No  
Used Oil Burner: No  
Used Oil Market Burner: No  
Used Oil Spec Marketer: No

**Hazardous Waste Handler Details**

Sequence No: 1  
Receive Date: 19910913  
Handler Name: RUSSELL BURDSALL AND WARD CORP  
Federal Waste Generator Code: 1  
Generator Code Description: Large Quantity Generator  
Source Type: Notification

**Waste Code Details**

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
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**Hazardous Waste Code:** K062  
**Waste Code Description:** SPENT PICKLE LIQUOR FROM STEEL FINISHING OPERATIONS OF PLANTS THAT PRODUCE IRON OR STEEL.

**Hazardous Waste Handler Details**

**Sequence No:** 1  
**Receive Date:** 19900227  
**Handler Name:** RB&W CORPORATION  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator  
**Source Type:** Annual/Biennial Report

**Hazardous Waste Handler Details**

**Sequence No:** 2  
**Receive Date:** 20031126  
**Handler Name:** PARK-OHIO PRODUCTS  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator  
**Source Type:** Notification

**Waste Code Details**

**Hazardous Waste Code:** D002  
**Waste Code Description:** CORROSIVE WASTE

**Hazardous Waste Handler Details**

**Sequence No:** 2  
**Receive Date:** 19921030  
**Handler Name:** R B & W CORPORATION  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator  
**Source Type:** Annual/Biennial Report

**Hazardous Waste Handler Details**

**Sequence No:** 1  
**Receive Date:** 20040301  
**Handler Name:** PARK OHIO PRODUCTS INC  
**Federal Waste Generator Code:** 3  
**Generator Code Description:** Very Small Quantity Generator  
**Source Type:** Annual/Biennial Report update with Notification

**Waste Code Details**

**Hazardous Waste Code:** D002  
**Waste Code Description:** CORROSIVE WASTE

**Owner/Operator Details**

<b>Owner/Operator Ind:</b> Current Operator	<b>Street No:</b>
<b>Type:</b> Private	<b>Street 1:</b> 23000 EUCLID AVE
<b>Name:</b> PARK OHIO PRODUCTS INC	<b>Street 2:</b>
<b>Date Became Current:</b> 20021101	<b>City:</b> CLEVELAND
<b>Date Ended Current:</b>	<b>State:</b> OH
<b>Phone:</b>	<b>Country:</b> US
<b>Source Type:</b> Notification	<b>Zip Code:</b> 44102

**Owner/Operator Ind:** Current Owner **Street No:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Type:</b>	Private				<b>Street 1:</b> 23000 EUCLID AVE	
<b>Name:</b>	PARK OHIO PRODUCTS INC				<b>Street 2:</b>	
<b>Date Became Current:</b>	20021101				<b>City:</b> CLEVELAND	
<b>Date Ended Current:</b>					<b>State:</b> OH	
<b>Phone:</b>					<b>Country:</b> US	
<b>Source Type:</b>	Notification				<b>Zip Code:</b> 44102	
<b>Owner/Operator Ind:</b>	Current Operator				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b> ADDRESS NOT REPORTED	
<b>Name:</b>	NAME NOT REPORTED				<b>Street 2:</b>	
<b>Date Became Current:</b>					<b>City:</b> CITY NOT REPORTED	
<b>Date Ended Current:</b>					<b>State:</b> AK	
<b>Phone:</b>	312-555-1212				<b>Country:</b>	
<b>Source Type:</b>	Notification				<b>Zip Code:</b> 99998	
<b>Owner/Operator Ind:</b>	Current Owner				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b> 23000 EUCLID AVE	
<b>Name:</b>	VERTICAL LEAP LLC				<b>Street 2:</b>	
<b>Date Became Current:</b>	20010401				<b>City:</b> CLEVELAND	
<b>Date Ended Current:</b>					<b>State:</b> OH	
<b>Phone:</b>					<b>Country:</b> US	
<b>Source Type:</b>	Annual/Biennial Report update with Notification				<b>Zip Code:</b> 44117	
<b>Owner/Operator Ind:</b>	Current Operator				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b> 7000 DENISON AVE	
<b>Name:</b>	PARK OHIO PRODUCTS INC				<b>Street 2:</b>	
<b>Date Became Current:</b>	20021120				<b>City:</b> CLEVELAND	
<b>Date Ended Current:</b>					<b>State:</b> OH	
<b>Phone:</b>					<b>Country:</b> US	
<b>Source Type:</b>	Annual/Biennial Report update with Notification				<b>Zip Code:</b> 44102	
<b>Owner/Operator Ind:</b>	Current Owner				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b> ADDRESS NOT REPORTED	
<b>Name:</b>	NAME NOT REPORTED				<b>Street 2:</b>	
<b>Date Became Current:</b>					<b>City:</b> CITY NOT REPORTED	
<b>Date Ended Current:</b>					<b>State:</b> AK	
<b>Phone:</b>	312-555-1212				<b>Country:</b>	
<b>Source Type:</b>	Notification				<b>Zip Code:</b> 99998	

**Historical Handler Details**

<b>Receive Dt:</b>	19900227
<b>Generator Code Description:</b>	Large Quantity Generator
<b>Handler Name:</b>	RB&W CORPORATION
<b>Receive Dt:</b>	19910913
<b>Generator Code Description:</b>	Large Quantity Generator
<b>Handler Name:</b>	RUSSELL BURDSALL AND WARD CORP
<b>Receive Dt:</b>	20031126
<b>Generator Code Description:</b>	Large Quantity Generator
<b>Handler Name:</b>	PARK-OHIO PRODUCTS
<b>Receive Dt:</b>	19921030
<b>Generator Code Description:</b>	Large Quantity Generator
<b>Handler Name:</b>	R B & W CORPORATION

<u>7</u>	3 of 4	SSW	0.11 / 591.03	715.27 / 16	R B & W CORP. 7000 DENISON VE CLEVELAND OH 44102	LUST
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<b>Release No:</b>	18008341 - N00001	<b>Release No (Map):</b>	18008341-N00001
<b>Facility Name:</b>	R B & W CORP.	<b>Fac Name (Map):</b>	R B & W CORP.
<b>Facility Address:</b>	7000 DENISON VE	<b>Fac Address (Map):</b>	7000 DENISON VE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>County:</b>	Cuyahoga				<b>Latitude (Map):</b>	41.461918
<b>Facility Latitude:</b>	41.462025				<b>Longitude (Map):</b>	-81.736492
<b>Facility Longitude:</b>	-81.736814				<b>Fac ID (BUSTR2):</b>	18008341
<b>Release No (OTTER):</b>	18008341-N00001				<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	R B & W CORP.				<b>Fac Name (BUSTR2):</b>	R B & W CORP.
<b>FacAddress (OTTER):</b>	7000 DENISON VE				<b>Address (BUSTR2):</b>	7000 DENISON VE
<b>Fac City (OTTER):</b>	CLEVELAND				<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>					<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102				<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga				<b>Latitude (BUSTR2):</b>	41.46202
<b>Latitude (OTTER):</b>					<b>Longitude (BUSTR2):</b>	-81.73681
<b>Longitude (OTTER):</b>					<b>Release No (BUSTR):</b>	18008341-N00001
<b>Fac Name (BUSTR):</b>	R B & W CORP.				<b>Fac Addr (BUSTR):</b>	7000 DENISON VE
<b>Fac City (BUSTR):</b>	CLEVELAND				<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102				<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.462025				<b>Longitude (BUSTR):</b>	-81.736814
<b>Facility (OTTER):</b>	18008341 (R B & W CORP.)					
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)					

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	5/7/1999
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	05/07/1999
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	05/13/1993	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	183083100.0	<b>Date Reported:</b>	5/13/1993
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	R B & W CORP.
<b>Facility:</b>	18008341 (R B & W CORP.)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#9150">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#9150</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34660">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34660</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.736492
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S81
<b>Label:</b>	18008341 - N00001 R B & W CORP.	<b>LOC QUAL:</b>	AS0
<b>Release No:</b>	18008341 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	2
<b>Address Out:</b>	7000 Denison Ave # VE	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.736492
<b>ZIP Out:</b>	44102-5247	<b>Y:</b>	41.461918
<b>Lat:</b>	41.461918		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	21345	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18008341	<b>Address:</b>	7000 DENISON VE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.46202
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.73681
<b>Current Fac Name:</b>	R B & W CORP.		

**All Active-Inactive BUSTR Sites**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>S No:</b>	29495				<b>Coordinator:</b> Charles Zepp	
<b>Incident No:</b>	183083100.0				<b>LTF:</b> 1 SUS/CON from regulated UST	
<b>Last Review Date:</b>	5/7/1999				<b>Rating:</b>	
<b>Release Date:</b>	5/13/1993				<b>Facility Name:</b> R B & W CORP.	
<b>Last Update:</b>	Charles Zepp				<b>Facility Address:</b> 7000 DENISON VE	
<b>Last Update Date:</b>	8/1/2022				<b>Facility City:</b> CLEVELAND	
<b>Status:</b>	NFA: No Further Action				<b>Facility State:</b> Ohio	
<b>Last Status Update:</b>	5/7/1999				<b>County:</b> Cuyahoga	
<b>Substatus:</b>	Approved				<b>Facility ZIP:</b> 44102	
<b>Priority:</b>	2				<b>Facility Latitude:</b> 41.462025	
<b>Class:</b>	D				<b>Facility Longitude:</b> -81.736814	
<b>Rules:</b>	1992					

[7](#) 4 of 4 SSW 0.11 / 591.03 715.27 / 16 R B & W CORP. 7000 DENISON VE CLEVELAND OH 44102 UST

<b>Facility (OTTER):</b>		<b>Facility No (Map):</b>	18008341
<b>Fac No (OTTER):</b>	18008341	<b>Fac Name (Map):</b>	R B & W CORP.
<b>Fac Name (OTTER):</b>	R B & W CORP.	<b>Address (Map):</b>	7000 DENISON VE
<b>Address (OTTER):</b>	7000 DENISON VE	<b>City (Map):</b>	CLEVELAND
<b>City (OTTER):</b>	CLEVELAND	<b>State (Map):</b>	Ohio
<b>State (OTTER):</b>		<b>Zip (Map):</b>	44102
<b>Zip (OTTER):</b>	44102	<b>County (Map):</b>	Cuyahoga
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (Map):</b>	41.462025
<b>Latitude (OTTER):</b>		<b>Longitude (Map):</b>	-81.736814
<b>Longitude (OTTER):</b>		<b>Fac ID (BUSTR2):</b>	18008341
<b>Fac No (BUSTR):</b>	18008341	<b>Fac Name (BUSTR2):</b>	R B & W CORP.
<b>Fac Name (BUSTR):</b>	R B & W CORP.	<b>Address (BUSTR2):</b>	7000 DENISON VE
<b>Address (BUSTR):</b>	7000 DENISON VE	<b>City (BUSTR2):</b>	CLEVELAND
<b>City (BUSTR):</b>	CLEVELAND	<b>Zip (BUSTR2):</b>	44102
<b>State (BUSTR):</b>	Ohio	<b>Latitude (BUSTR2):</b>	41.46202
<b>Zip (BUSTR):</b>	44102	<b>Longitude (BUSTR2):</b>	-81.73681
<b>County (BUSTR2):</b>	CUY		
<b>County (BUSTR):</b>	Cuyahoga		
<b>Latitude (BUSTR):</b>	41.461918		
<b>Longitude (BUSTR):</b>	-81.736492		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER) Search; Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks; BUSTR: All Facility Tanks; Map Services Directory: BUSTR - UST Locations (BUSTR/OGRIP)		

**Ohio Tank Tracking & Environmental Regulations (OTTER) Search**

<b>Old Incident ID:</b>	183083100.0	<b>Date Reported:</b>	5/13/1993
<b>Tank Status:</b>	No Tanks Available	<b>Own Business Name:</b>	R B & W CORP.
<b>Facility URL:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#9150">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#9150</a>		
<b>Release No URL:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34660">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34660</a>		

**Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks**

<b>Tank No:</b>	T00002	<b>Date Last Used:</b>	06/25/1993
<b>Status:</b>	REM - Removed	<b>UST Capacity:</b>	20000
<b>UST:</b>	UST	<b>Tank Content:</b>	Heating Oil
<b>Regulated:</b>	NO	<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Unknown	<b>UST Configurations:</b>	
<b>Installation Date:</b>	04/01/1977	<b>CAS No:</b>	
<b>Date Removed:</b>	04/08/1993	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>			
<b>Owner Address:</b>			
<b>Owner City:</b>			
<b>Owner State:</b>			
<b>Owner Zip:</b>			
<b>Construction:</b>	BM - Bare Metal		
<b>Construction Comments:</b>	Steel		
<b>Overfill Prevention:</b>			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Overfill Prev Comments:</b>		OverFill Spill: No				
<b>Prmry Release Detection:</b>		AMO - Alternative Method (Other, explain)				
<b>2ndry Release Detection:</b>						
<b>Release Detect Comments:</b>		RDTank: / RDLine:				
<b>Spill Prevention Manholes:</b>		NP - None Present				
<b>Spill Prev Manhole Comment:</b>		No				
<b>Corrosion Protections:</b>						
<b>Corrosion Protect Comments:</b>						
<b>Piping Configuration:</b>						
<b>Piping Config Comment:</b>						
<b>Piping Styles:</b>		S - Suction				
<b>Piping Construction:</b>		OTH - Other (explain)				
<b>Piping Construct Comments:</b>		TRV/COAT				
<b>Piping Corrosion Protection:</b>		OTH - Other (explain)				
<b>Piping Corr Protect Comments:</b>						
<b>Piping Release Detection:</b>		OTH - Other(explain)				
<b>Piping Rel Detect Comments:</b>						
<b>Comments:</b>						
<b>Tank No:</b>	T00001				<b>Date Last Used:</b>	06/25/1983
<b>Status:</b>	REM - Removed				<b>UST Capacity:</b>	20000
<b>UST:</b>	UST				<b>Tank Content:</b>	Heating Oil
<b>Regulated:</b>	NO				<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Unknown				<b>UST Configurations:</b>	
<b>Installation Date:</b>	04/01/1977				<b>CAS No:</b>	
<b>Date Removed:</b>	04/08/1993				<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>					<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>						
<b>Owner Address:</b>						
<b>Owner City:</b>						
<b>Owner State:</b>						
<b>Owner Zip:</b>						
<b>Construction:</b>	BM - Bare Metal					
<b>Construction Comments:</b>	Steel					
<b>Overfill Prevention:</b>						
<b>Overfill Prev Comments:</b>		OverFill Spill: No				
<b>Prmry Release Detection:</b>		AMO - Alternative Method (Other, explain)				
<b>2ndry Release Detection:</b>						
<b>Release Detect Comments:</b>		RDTank: / RDLine:				
<b>Spill Prevention Manholes:</b>		NP - None Present				
<b>Spill Prev Manhole Comment:</b>		No				
<b>Corrosion Protections:</b>						
<b>Corrosion Protect Comments:</b>						
<b>Piping Configuration:</b>						
<b>Piping Config Comment:</b>						
<b>Piping Styles:</b>		S - Suction				
<b>Piping Construction:</b>		OTH - Other (explain)				
<b>Piping Construct Comments:</b>		TRV/COAT				
<b>Piping Corrosion Protection:</b>		OTH - Other (explain)				
<b>Piping Corr Protect Comments:</b>						
<b>Piping Release Detection:</b>		OTH - Other(explain)				
<b>Piping Rel Detect Comments:</b>						
<b>Comments:</b>						
<b>Tank No:</b>	T00004				<b>Date Last Used:</b>	01/07/1993
<b>Status:</b>	REM - Removed				<b>UST Capacity:</b>	8000
<b>UST:</b>	UST				<b>Tank Content:</b>	Other Petroleum Distillate
<b>Regulated:</b>	YES				<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Unknown				<b>UST Configurations:</b>	
<b>Installation Date:</b>	04/01/1977				<b>CAS No:</b>	
<b>Date Removed:</b>	04/12/1993				<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>					<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>						
<b>Owner Address:</b>						
<b>Owner City:</b>						
<b>Owner State:</b>						
<b>Owner Zip:</b>						
<b>Construction:</b>	BM - Bare Metal					
<b>Construction Comments:</b>	Steel					

**Overfill Prevention:**  
**Overfill Prev Comments:** OverFill Spill: No  
**Prmry Release Detection:** AMO - Alternative Method (Other, explain)  
**2ndry Release Detection:**  
**Release Detect Comments:** RDTank: / RDLine:  
**Spill Prevention Manholes:** NP - None Present  
**Spill Prev Manhole Comment:** No  
**Corrosion Protections:**  
**Corrosion Protect Comments:**  
**Piping Configuration:**  
**Piping Config Comment:**  
**Piping Styles:** S - Suction  
**Piping Construction:** OTH - Other (explain)  
**Piping Construct Comments:** TRV/COAT  
**Piping Corrosion Protection:** OTH - Other (explain)  
**Piping Corr Protect Comments:**  
**Piping Release Detection:** OTH - Other(explain)  
**Piping Rel Detect Comments:**  
**Comments:** Lubricating/extruding oil

<b>Tank No:</b>	T00006	<b>Date Last Used:</b>	01/07/1993
<b>Status:</b>	REM - Removed	<b>UST Capacity:</b>	8000
<b>UST:</b>	UST	<b>Tank Content:</b>	Other Petroleum Distillate
<b>Regulated:</b>	YES	<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Unknown	<b>UST Configurations:</b>	
<b>Installation Date:</b>	04/01/1977	<b>CAS No:</b>	
<b>Date Removed:</b>	04/12/1993	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	

**Owner Name:**  
**Owner Address:**  
**Owner City:**  
**Owner State:**  
**Owner Zip:**  
**Construction:** BM - Bare Metal  
**Construction Comments:** Steel  
**Overfill Prevention:**  
**Overfill Prev Comments:** OverFill Spill: No  
**Prmry Release Detection:** AMO - Alternative Method (Other, explain)  
**2ndry Release Detection:**  
**Release Detect Comments:** RDTank: / RDLine:  
**Spill Prevention Manholes:** NP - None Present  
**Spill Prev Manhole Comment:** No  
**Corrosion Protections:**  
**Corrosion Protect Comments:**  
**Piping Configuration:**  
**Piping Config Comment:**  
**Piping Styles:** S - Suction  
**Piping Construction:** OTH - Other (explain)  
**Piping Construct Comments:** TRV/COAT  
**Piping Corrosion Protection:** OTH - Other (explain)  
**Piping Corr Protect Comments:**  
**Piping Release Detection:** OTH - Other(explain)  
**Piping Rel Detect Comments:**  
**Comments:** Quench oil

<b>Tank No:</b>	T00003	<b>Date Last Used:</b>	01/07/1993
<b>Status:</b>	REM - Removed	<b>UST Capacity:</b>	8000
<b>UST:</b>	UST	<b>Tank Content:</b>	Other Petroleum Distillate
<b>Regulated:</b>	YES	<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Unknown	<b>UST Configurations:</b>	
<b>Installation Date:</b>	04/01/1977	<b>CAS No:</b>	
<b>Date Removed:</b>	04/08/1993	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>			
<b>Owner Address:</b>			
<b>Owner City:</b>			
<b>Owner State:</b>			
<b>Owner Zip:</b>			
<b>Construction:</b>	BM - Bare Metal		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Construction Comments:** Steel  
**Overfill Prevention:**  
**Overfill Prev Comments:** OverFill Spill: No  
**Prmry Release Detection:** AMO - Alternative Method (Other, explain)  
**2ndry Release Detection:**  
**Release Detect Comments:** RDTank: / RDLine:  
**Spill Prevention Manholes:** NP - None Present  
**Spill Prev Manhole Comment:** No  
**Corrosion Protections:**  
**Corrosion Protect Comments:**  
**Piping Configuration:**  
**Piping Config Comment:**  
**Piping Styles:** S - Suction  
**Piping Construction:** OTH - Other (explain)  
**Piping Construct Comments:** TRV/COAT  
**Piping Corrosion Protection:** OTH - Other (explain)  
**Piping Corr Protect Comments:**  
**Piping Release Detection:** OTH - Other(explain)  
**Piping Rel Detect Comments:**  
**Comments:** Lubricating/extruding oil

<b>Tank No:</b>	T00005	<b>Date Last Used:</b>	01/07/1993
<b>Status:</b>	REM - Removed	<b>UST Capacity:</b>	8000
<b>UST:</b>	UST	<b>Tank Content:</b>	Other Petroleum Distillate
<b>Regulated:</b>	YES	<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Unknown	<b>UST Configurations:</b>	
<b>Installation Date:</b>	04/01/1977	<b>CAS No:</b>	
<b>Date Removed:</b>	04/12/1993	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	

**Owner Name:**  
**Owner Address:**  
**Owner City:**  
**Owner State:**  
**Owner Zip:**  
**Construction:** BM - Bare Metal  
**Construction Comments:** Steel  
**Overfill Prevention:**  
**Overfill Prev Comments:** OverFill Spill: No  
**Prmry Release Detection:** AMO - Alternative Method (Other, explain)  
**2ndry Release Detection:**  
**Release Detect Comments:** RDTank: / RDLine:  
**Spill Prevention Manholes:** NP - None Present  
**Spill Prev Manhole Comment:** No  
**Corrosion Protections:**  
**Corrosion Protect Comments:**  
**Piping Configuration:**  
**Piping Config Comment:**  
**Piping Styles:** S - Suction  
**Piping Construction:** OTH - Other (explain)  
**Piping Construct Comments:** TRV/COAT  
**Piping Corrosion Protection:** OTH - Other (explain)  
**Piping Corr Protect Comments:**  
**Piping Release Detection:** OTH - Other(explain)  
**Piping Rel Detect Comments:**  
**Comments:** Quench oil

**BUSTR: All Facility Tanks**

<b>Tank No:</b>	T00004	<b>Address Out:</b>	7000 Denison Ave # VE
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	4/12/1993	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5247
<b>UST Capacity:</b>	800	<b>Lat:</b>	41.461918
<b>Tank Content:</b>	Unknown	<b>Lon:</b>	-81.736492
<b>Label:</b>	18008341 R B & W CORP.	<b>Match:</b>	S81
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	ASO
<b>State:</b>	Ohio	<b>LOC CONF:</b>	2
<b>X:</b>			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Y:

<b>Tank No:</b>	T00005	<b>Address Out:</b>	7000 Denison Ave # VE
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	5/7/1993	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5247
<b>UST Capacity:</b>	8000	<b>Lat:</b>	41.461918
<b>Tank Content:</b>	Unknown	<b>Lon:</b>	-81.736492
<b>Label:</b>	18008341 R B & W CORP.	<b>Match:</b>	S81
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	AS0
<b>State:</b>	Ohio	<b>LOC CONF:</b>	2

X:

Y:

<b>Tank No:</b>	T00001	<b>Address Out:</b>	7000 Denison Ave # VE
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	4/8/1993	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5247
<b>UST Capacity:</b>	20000	<b>Lat:</b>	41.461918
<b>Tank Content:</b>	Unknown	<b>Lon:</b>	-81.736492
<b>Label:</b>	18008341 R B & W CORP.	<b>Match:</b>	S81
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	AS0
<b>State:</b>	Ohio	<b>LOC CONF:</b>	2

X:

Y:

<b>Tank No:</b>	T00002	<b>Address Out:</b>	7000 Denison Ave # VE
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	4/8/1993	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5247
<b>UST Capacity:</b>	20000	<b>Lat:</b>	41.461918
<b>Tank Content:</b>	Unknown	<b>Lon:</b>	-81.736492
<b>Label:</b>	18008341 R B & W CORP.	<b>Match:</b>	S81
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	AS0
<b>State:</b>	Ohio	<b>LOC CONF:</b>	2

X:

Y:

<b>Tank No:</b>	T00003	<b>Address Out:</b>	7000 Denison Ave # VE
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	4/8/1993	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5247
<b>UST Capacity:</b>	8000	<b>Lat:</b>	41.461918
<b>Tank Content:</b>	Unknown	<b>Lon:</b>	-81.736492
<b>Label:</b>	18008341 R B & W CORP.	<b>Match:</b>	S81
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	AS0
<b>State:</b>	Ohio	<b>LOC CONF:</b>	2

X:

Y:

<b>Tank No:</b>	T00006	<b>Address Out:</b>	7000 Denison Ave # VE
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	5/7/1993	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5247
<b>UST Capacity:</b>	8000	<b>Lat:</b>	41.461918
<b>Tank Content:</b>	Unknown	<b>Lon:</b>	-81.736492
<b>Label:</b>	18008341 R B & W CORP.	<b>Match:</b>	S81
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	AS0
<b>State:</b>	Ohio	<b>LOC CONF:</b>	2

X:

Y:

**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	46410	<b>Facility Name:</b>	R B & W CORP.
<b>Facility ID:</b>	18008341	<b>Facility Co:</b>	
<b>Tank ID:</b>	T00003	<b>Address:</b>	7000 DENISON VE
<b>Facility Status:</b>	Inactive	<b>City:</b>	CLEVELAND

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Date Removed:</b>	04/08/93				<b>Zip:</b> 44102	
<b>Inspection Date:</b>					<b>County:</b> CUY	
<b>Status:</b>	REM				<b>ODoT District:</b> 12	
<b>Data Date:</b>	2014-11-10 14:15:46.687				<b>Latitude DD Begin:</b> 41.46202	
<b>Capacity:</b>	8000				<b>Longitude DD Begin:</b> -81.73681	
<b>Content:</b>	Unknown					

**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	46408	<b>Facility Name:</b>	R B & W CORP.
<b>Facility ID:</b>	18008341	<b>Facility Co:</b>	
<b>Tank ID:</b>	T00001	<b>Address:</b>	7000 DENISON VE
<b>Facility Status:</b>	Inactive	<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	04/08/93	<b>Zip:</b>	44102
<b>Inspection Date:</b>		<b>County:</b>	CUY
<b>Status:</b>	REM	<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687	<b>Latitude DD Begin:</b>	41.46202
<b>Capacity:</b>	20000	<b>Longitude DD Begin:</b>	-81.73681
<b>Content:</b>	Unknown		

**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	46412	<b>Facility Name:</b>	R B & W CORP.
<b>Facility ID:</b>	18008341	<b>Facility Co:</b>	
<b>Tank ID:</b>	T00005	<b>Address:</b>	7000 DENISON VE
<b>Facility Status:</b>	Inactive	<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	05/07/93	<b>Zip:</b>	44102
<b>Inspection Date:</b>		<b>County:</b>	CUY
<b>Status:</b>	REM	<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687	<b>Latitude DD Begin:</b>	41.46202
<b>Capacity:</b>	8000	<b>Longitude DD Begin:</b>	-81.73681
<b>Content:</b>	Unknown		

**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	46409	<b>Facility Name:</b>	R B & W CORP.
<b>Facility ID:</b>	18008341	<b>Facility Co:</b>	
<b>Tank ID:</b>	T00002	<b>Address:</b>	7000 DENISON VE
<b>Facility Status:</b>	Inactive	<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	04/08/93	<b>Zip:</b>	44102
<b>Inspection Date:</b>		<b>County:</b>	CUY
<b>Status:</b>	REM	<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687	<b>Latitude DD Begin:</b>	41.46202
<b>Capacity:</b>	20000	<b>Longitude DD Begin:</b>	-81.73681
<b>Content:</b>	Unknown		

**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	46411	<b>Facility Name:</b>	R B & W CORP.
<b>Facility ID:</b>	18008341	<b>Facility Co:</b>	
<b>Tank ID:</b>	T00004	<b>Address:</b>	7000 DENISON VE
<b>Facility Status:</b>	Inactive	<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	04/12/93	<b>Zip:</b>	44102
<b>Inspection Date:</b>		<b>County:</b>	CUY
<b>Status:</b>	REM	<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687	<b>Latitude DD Begin:</b>	41.46202
<b>Capacity:</b>	800	<b>Longitude DD Begin:</b>	-81.73681
<b>Content:</b>	Unknown		

**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	46413	<b>Facility Name:</b>	R B & W CORP.
<b>Facility ID:</b>	18008341	<b>Facility Co:</b>	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Tank ID:</b>	T00006				<b>Address:</b> 7000 DENISON VE	
<b>Facility Status:</b>	Inactive				<b>City:</b> CLEVELAND	
<b>Date Removed:</b>	05/07/93				<b>Zip:</b> 44102	
<b>Inspection Date:</b>					<b>County:</b> CUY	
<b>Status:</b>	REM				<b>ODoT District:</b> 12	
<b>Data Date:</b>	2014-11-10 14:15:46.687				<b>Latitude DD Begin:</b> 41.46202	
<b>Capacity:</b>	8000				<b>Longitude DD Begin:</b> -81.73681	
<b>Content:</b>	Unknown					

**8** 1 of 2 **ESE** 0.13 / 685.12 702.83 / 3 **Cleveland City of Inner West Side Area USD** **DERR**

**OH**

**DERR ID:** 218002183 **County:** Cuyahoga  
**CERCLIS ID:** **District:** NEDO  
**Program:** **Latitude:** 41.464992  
**Program Desc:** **Longitude:** -81.731789  
**Address (REST):** **Cerclis iID (REST):**  
**City (REST):** **OepaDstrct (REST):** NEDO  
**Zip (REST):** **Activity (REST):**  
**County (REST):** Cuyahoga **DERR ID (REST):** 218002183  
**LatDd Begin (REST):** 41.464992 **LonDd Begin (REST):** -81.731789  
**Source:** Ohio EPA: DERR Database; REST Services Directory: DERR Database (OEPA-DERR)  
**Name (REST):** Cleveland City of Inner West Side Area USD

**REST Services Directory: DERR Database (OEPA-DERR)**

**Cerclis ID:** **Address:**  
**Alias:** **City:**  
**Activity:** **Zip:**  
**ODoT District:** 12 **Latitude DD Begin:** 41.464992  
**OEPA District:** NEDO **Longitude DD Begin:** -81.731789  
**County:** Cuyahoga  
**Name:** Cleveland City of Inner West Side Area USD

**8** 2 of 2 **ESE** 0.13 / 685.12 702.83 / 3 **Cleveland City of Inner West Side Area USD** **VCP**  
**!FILL!**  
**!FILL! OH !FILL!**

**Site ID:** 218002183 **Site ID (Map):** 218002183  
**County:** Cuyahoga **County (Map):** Cuyahoga  
**EPA District:** NEDO **OEPA District (Map):** NEDO  
**Latitude:** 41.464992 **Latitude (Map):** 41.464992  
**Longitude:** -81.731789 **Longitude (Map):** -81.731789  
**Name:** Cleveland City of Inner West Side Area USD  
**Street Address:** !FILL!  
**Street Address 2:**  
**City:** !FILL!  
**Postal Code:** !FILL!  
**Name (Map):** Cleveland City of Inner West Side Area USD  
**Address (Map):** !FILL!  
**Address2 (Map):**  
**City (Map):** !FILL!  
**ZIP code (Map):** !FILL!  
**Source:** Ohio EPA: List of All VAP Sites; REST Services Directory: VAP Sites (OEPA-DERR)

**Ohio EPA Details**

**Alias Name:**  
**Old Program ID:**  
**Project Type Desc:** USD Inspection

**Alias Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Old Program ID:</b>		98USD008				
<b>Project Type Desc:</b>		Urban Setting Designation				
<b>Map Details</b>						
<b>Old Program ID:</b>				<b>Latitude DD Begin:</b>	41.464992	
<b>Project Type:</b>		USD Inspection		<b>Longitude DD Begin:</b>	-81.731789	
<b>ODoT District:</b>		12				
<b>Old Program ID:</b>				<b>Latitude DD Begin:</b>	41.464992	
<b>Project Type:</b>		USD Inspection		<b>Longitude DD Begin:</b>	-81.731789	
<b>ODoT District:</b>		12				
<b>Old Program ID:</b>		98USD008		<b>Latitude DD Begin:</b>	41.464992	
<b>Project Type:</b>		Urban Setting Designation		<b>Longitude DD Begin:</b>	-81.731789	
<b>ODoT District:</b>		12				

<u>9</u>	1 of 2	WSW	0.14 / 738.34	709.94 / 10	<b>FLUORESCENT RECYCLING</b> 7260 Neville Ave CLEVELAND OH 44102	SEMS
<b>EPA ID:</b>	OHN000507862		<b>Pgm Sys ID:</b>	OHN000507862		
<b>Primary Name(MAP):</b>	FLUORESCENT RECYCLING		<b>Loc Address(MAP):</b>	7260 NEVILLE AVE		
<b>City Name:</b>	CLEVELAND		<b>Postal Code:</b>	44118		
<b>Site Name:</b>	FLUORESCENT RECYCLING		<b>County Name:</b>	CUYAHOGA		
<b>Street Address:</b>	7260 Neville Ave		<b>Latitude83:</b>	41.464352		
<b>Street Address 2:</b>			<b>Longitude83:</b>	-81.737472		
<b>City:</b>	CLEVELAND		<b>PGM SYS ID(CalOES):</b>	OHN000507862		
<b>State:</b>	OH		<b>Name(CalOES):</b>	FLUORESCENT RECYCLING		
<b>Zip:</b>	44102		<b>Loc Addr(CalOES):</b>	7260 NEVILLE AVE		
<b>County:</b>	CUYAHOGA		<b>City(CalOES):</b>	CLEVELAND		
<b>Latitude:</b>	+41.464352		<b>Postal(CalOES):</b>	44118		
<b>Longitude:</b>	-81.737472		<b>County(CalOES):</b>	CUYAHOGA		
<b>Latitude83(CalOES):</b>	41.464352		<b>Longitude83(CalOES):</b>	-81.737472		
<b>Data Source:</b>	EPA Superfund Data and Reports Active Site Inventory (List 8R Active);EPA FRS Interests Map - SEMS;CalOES EPA RCRA TSDf Map - SEMS					

**Site Level Information**

<b>Site ID:</b>	0507862	<b>Superfund Alt Agmt:</b>	No
<b>NPL:</b>	Not on the NPL	<b>FIPS Code:</b>	39035
<b>Federal Facility:</b>	No	<b>Cong District:</b>	09
<b>FF Docket:</b>	No	<b>Region:</b>	05
<b>Non NPL Status:</b>	Removal Only Site (No Site Assessment Work Needed)		

**Action Information**

<b>Operable Units:</b>	00	<b>Start Actual:</b>	02/16/2018
<b>Action Code:</b>	RV	<b>Finish Actual:</b>	09/24/2018
<b>Action Name:</b>	RMVL	<b>Qual:</b>	C
<b>SEQ:</b>	1	<b>Curr Action Lead:</b>	EPA Perf

**REST Information**

<b>Registry ID:</b>	110046537468	<b>Pgm Sys Acrnm:</b>	SEMS
<b>Active Status:</b>	NOT ON THE NPL	<b>Accuracy Value:</b>	50
<b>Key Field:</b>	SEMSON000507862	<b>HUC8 Code:</b>	04110002
<b>Interest Type:</b>	SUPERFUND (NON-NPL)	<b>HUC 12:</b>	
<b>Fed Agency Name:</b>		<b>Federal Land Ind:</b>	
<b>Fed Facility Code:</b>	N	<b>Public Ind:</b>	Y
<b>EPA Region Code:</b>	05	<b>Pgm Report:</b>	no data yet
<b>Collect Mth Desc:</b>	ADDRESS MATCHING-HOUSE NUMBER		
<b>Ref Point Desc:</b>	ENTRANCE POINT OF A FACILITY OR STATION		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Fac Url:** https://ofmpub.epa.gov/frs\_public2/fii\_query\_detail.disp\_program\_facility?p\_registry\_id=110046537468  
**Program Url:**  
**Pgm Report Url:** no data yet  
**Fips Code:** 39035

**CalOES EPA RCRA TSDf - SEMS**

<b>Registry ID:</b>	110046537468	<b>HUC 12:</b>	
<b>Interest Tpe:</b>	SUPERFUND (NON-NPL)	<b>Collect Method:</b>	ADDRESS MATCHING-HOUSE NUMBER
<b>Active Status:</b>	NOT ON THE NPL	<b>Accuracy Value:</b>	50
<b>Pgm Sys Acnm:</b>	SEMS	<b>Ref Point Desc:</b>	ENTRANCE POINT OF A FACILITY OR STATION
<b>Federal Ag:</b>		<b>EPA Region:</b>	05
<b>Federal La:</b>		<b>Key Field:</b>	SEMSOHN000507862
<b>Fed Facility Cd:</b>	N	<b>Create Dt:</b>	26-Oct-2021
<b>Public Ind:</b>	Y	<b>Update Dt:</b>	24-Nov-2021
<b>FIPS Code:</b>	39035	<b>Last Reported Dt:</b>	
<b>HUC8 Code:</b>	04110002		
<b>Pgm Report:</b>	no data yet		
<b>Program Url:</b>			
<b>Fac Url:</b>	https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110046537468		

<u>9</u>	2 of 2	WSW	0.14 / 738.34	709.94 / 10	FLUORESCENT RECYCLING INC 7260 NEVILLE AVE CLEVELAND OH 44118	RCRA NON GEN
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**EPA Handler ID:** OHR000173047  
**Gen Status Universe:** No Report  
**Contact Name:** ERIC POHL  
**Contact Address:** 25063 CENTER RIDGE RD , , WESTLAKE , OH, 44145 , US  
**Contact Phone No and Ext:** 440-250-1740  
**Contact Email:** POHL.ERIC@EPA.GOV  
**Contact Country:** US  
**County Name:** CUYAHOGA  
**EPA Region:** 05  
**Land Type:** Private  
**Receive Date:** 20181226  
**Location Latitude:**  
**Location Longitude:**

**Violation/Evaluation Summary**

**Note:** VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated Sep, 2022.

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** State Statute or Regulation  
**Violation Type:** XXS  
**Violation Determined Date:** 20160129  
**Scheduled Compliance Date:**  
**Return to Compliance:**  
**Actual Return to Compl:**  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20180222  
**Enf Disposition Status:**  
**Disposition Status Date:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Enforcement Lead Agency:</b>		State				
<b>Proposed Penalty Amount:</b>						
<b>Final Amount:</b>						
<b>Paid Amount:</b>						
<b>Enforcement Type:</b>		310				
<b>Enforcement Type Description:</b>		FINAL 3008(A) COMPLIANCE ORDER				
<b>Enforcement Action Date:</b>		20161207				
<b>Enf Disposition Status:</b>						
<b>Disposition Status Date:</b>						
<b>Enforcement Lead Agency:</b>		State				
<b>Proposed Penalty Amount:</b>						
<b>Final Amount:</b>						
<b>Paid Amount:</b>						
<b>Enforcement Type:</b>		410				
<b>Enforcement Type Description:</b>		REFERRAL TO ATTORNEY GENERAL				
<b>Enforcement Action Date:</b>		20170502				
<b>Enf Disposition Status:</b>						
<b>Disposition Status Date:</b>						
<b>Enforcement Lead Agency:</b>		State				
<b>Proposed Penalty Amount:</b>						
<b>Final Amount:</b>						
<b>Paid Amount:</b>						
<b>Enforcement Type:</b>		120				
<b>Enforcement Type Description:</b>		WRITTEN INFORMAL				
<b>Enforcement Action Date:</b>		20160216				
<b>Enf Disposition Status:</b>						
<b>Disposition Status Date:</b>						
<b>Enforcement Lead Agency:</b>		State				
<b>Proposed Penalty Amount:</b>						
<b>Final Amount:</b>						
<b>Paid Amount:</b>						
<b>Enforcement Type:</b>		510				
<b>Enforcement Type Description:</b>		INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY				
<b>Enforcement Action Date:</b>		20180313				
<b>Enf Disposition Status:</b>						
<b>Disposition Status Date:</b>						
<b>Enforcement Lead Agency:</b>		State				
<b>Proposed Penalty Amount:</b>						
<b>Final Amount:</b>						
<b>Paid Amount:</b>						
<b><u>Violation Details</u></b>						
<b>Found Violation:</b>		Yes				
<b>Citation:</b>						
<b>Violation Short Description:</b>		TSD - Preparedness and Prevention				
<b>Violation Type:</b>		264.C				
<b>Violation Determined Date:</b>		20160129				
<b>Scheduled Compliance Date:</b>						
<b>Return to Compliance:</b>						
<b>Actual Return to Compl:</b>						
<b>Violation Responsible Agency:</b>		State				
<b><u>Enforcement Details</u></b>						
<b>Enforcement Type:</b>		510				
<b>Enforcement Type Description:</b>		INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY				
<b>Enforcement Action Date:</b>		20180313				
<b>Enf Disposition Status:</b>						
<b>Disposition Status Date:</b>						
<b>Enforcement Lead Agency:</b>		State				
<b>Proposed Penalty Amount:</b>						
<b>Final Amount:</b>						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20180222  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 310  
**Enforcement Type Description:** FINAL 3008(A) COMPLIANCE ORDER  
**Enforcement Action Date:** 20161207  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20160216  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 410  
**Enforcement Type Description:** REFERRAL TO ATTORNEY GENERAL  
**Enforcement Action Date:** 20170502  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** TSD - General Facility Standards  
**Violation Type:** 264.B  
**Violation Determined Date:** 20160129  
**Scheduled Compliance Date:**  
**Return to Compliance:**  
**Actual Return to Compl:**  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 310  
**Enforcement Type Description:** FINAL 3008(A) COMPLIANCE ORDER  
**Enforcement Action Date:** 20161207  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 410

**Enforcement Type Description:** REFERRAL TO ATTORNEY GENERAL  
**Enforcement Action Date:** 20170502  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 510  
**Enforcement Type Description:** INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
**Enforcement Action Date:** 20180313  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20160216  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20180222  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** State Statute or Regulation  
**Violation Type:** XXS  
**Violation Determined Date:** 20180214  
**Scheduled Compliance Date:**  
**Return to Compliance:**  
**Actual Return to Compl:**  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 510  
**Enforcement Type Description:** INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
**Enforcement Action Date:** 20180313  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20180222  
**Enf Disposition Status:**

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Disposition Status Date:</b>						
<b>Enforcement Lead Agency:</b>		State				
<b>Proposed Penalty Amount:</b>						
<b>Final Amount:</b>						
<b>Paid Amount:</b>						
<b><u>Violation Details</u></b>						
<b>Found Violation:</b>		Yes				
<b>Citation:</b>						
<b>Violation Short Description:</b>		Generators - General				
<b>Violation Type:</b>		262.A				
<b>Violation Determined Date:</b>		20180214				
<b>Scheduled Compliance Date:</b>						
<b>Return to Compliance:</b>						
<b>Actual Return to Compl:</b>						
<b>Violation Responsible Agency:</b>		State				
<b><u>Enforcement Details</u></b>						
<b>Enforcement Type:</b>		120				
<b>Enforcement Type Description:</b>		WRITTEN INFORMAL				
<b>Enforcement Action Date:</b>		20180222				
<b>Enf Disposition Status:</b>						
<b>Disposition Status Date:</b>						
<b>Enforcement Lead Agency:</b>		State				
<b>Proposed Penalty Amount:</b>						
<b>Final Amount:</b>						
<b>Paid Amount:</b>						
<b>Enforcement Type:</b>		510				
<b>Enforcement Type Description:</b>		INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY				
<b>Enforcement Action Date:</b>		20180313				
<b>Enf Disposition Status:</b>						
<b>Disposition Status Date:</b>						
<b>Enforcement Lead Agency:</b>		State				
<b>Proposed Penalty Amount:</b>						
<b>Final Amount:</b>						
<b>Paid Amount:</b>						
<b><u>Evaluation Details</u></b>						
<b>Evaluation Start Date:</b>		20160617				
<b>Evaluation Type Description:</b>		SIGNIFICANT NON-COMPLIER				
<b>Violation Short Description:</b>		State Statute or Regulation				
<b>Return to Compliance Date:</b>						
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20160617				
<b>Evaluation Type Description:</b>		SIGNIFICANT NON-COMPLIER				
<b>Violation Short Description:</b>		TSD - Preparedness and Prevention				
<b>Return to Compliance Date:</b>						
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20160129				
<b>Evaluation Type Description:</b>		FOCUSED COMPLIANCE INSPECTION				
<b>Violation Short Description:</b>		TSD - General Facility Standards				
<b>Return to Compliance Date:</b>						
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20160617				
<b>Evaluation Type Description:</b>		SIGNIFICANT NON-COMPLIER				
<b>Violation Short Description:</b>		TSD - General Facility Standards				
<b>Return to Compliance Date:</b>						
<b>Evaluation Agency:</b>		State				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Evaluation Start Date:** 20180214  
**Evaluation Type Description:** FOCUSED COMPLIANCE INSPECTION  
**Violation Short Description:** Generators - General  
**Return to Compliance Date:**  
**Evaluation Agency:** State

**Evaluation Start Date:** 20160129  
**Evaluation Type Description:** FOCUSED COMPLIANCE INSPECTION  
**Violation Short Description:** TSD - Preparedness and Prevention  
**Return to Compliance Date:**  
**Evaluation Agency:** State

**Evaluation Start Date:** 20180214  
**Evaluation Type Description:** FOCUSED COMPLIANCE INSPECTION  
**Violation Short Description:** State Statute or Regulation  
**Return to Compliance Date:**  
**Evaluation Agency:** State

**Evaluation Start Date:** 20180214  
**Evaluation Type Description:** FOCUSED COMPLIANCE INSPECTION  
**Violation Short Description:** TSD - General Facility Standards  
**Return to Compliance Date:**  
**Evaluation Agency:** State

**Evaluation Start Date:** 20160129  
**Evaluation Type Description:** FOCUSED COMPLIANCE INSPECTION  
**Violation Short Description:** State Statute or Regulation  
**Return to Compliance Date:**  
**Evaluation Agency:** State

**Evaluation Start Date:** 20180214  
**Evaluation Type Description:** FOCUSED COMPLIANCE INSPECTION  
**Violation Short Description:** TSD - Preparedness and Prevention  
**Return to Compliance Date:**  
**Evaluation Agency:** State

**Handler Summary**

**Importer Activity:** No  
**Mixed Waste Generator:** No  
**Transporter Activity:** No  
**Transfer Facility:** No  
**Onsite Burner Exemption:** No  
**Furnace Exemption:** No  
**Underground Injection Activity:** No  
**Commercial TSD:** No  
**Used Oil Transporter:** No  
**Used Oil Transfer Facility:** No  
**Used Oil Processor:** No  
**Used Oil Refiner:** No  
**Used Oil Burner:** No  
**Used Oil Market Burner:** No  
**Used Oil Spec Marketer:** No

**Hazardous Waste Handler Details**

**Sequence No:** 1  
**Receive Date:** 20181226  
**Handler Name:** FLUORESCENT RECYCLING INC  
**Source Type:** Deactivation  
**Federal Waste Generator Code:** N  
**Generator Code Description:** Not a Generator, Verified

**Hazardous Waste Handler Details**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Sequence No:** 2  
**Receive Date:** 20180214  
**Handler Name:** FLUORESCENT RECYCLING INC  
**Source Type:** Implementer  
**Federal Waste Generator Code:** N  
**Generator Code Description:** Not a Generator, Verified

**Hazardous Waste Handler Details**

**Sequence No:** 1  
**Receive Date:** 20160129  
**Handler Name:** FLUORESCENT RECYCLING INC  
**Source Type:** Implementer  
**Federal Waste Generator Code:** N  
**Generator Code Description:** Not a Generator, Verified

**Hazardous Waste Handler Details**

**Sequence No:** 1  
**Receive Date:** 20120911  
**Handler Name:** FLUORESCENT RECYCLING INC  
**Source Type:** Notification  
**Federal Waste Generator Code:** N  
**Generator Code Description:** Not a Generator, Verified

**Hazardous Waste Handler Details**

**Sequence No:** 2  
**Receive Date:** 20180322  
**Handler Name:** FLUORESCENT RECYCLING INC  
**Source Type:** Notification  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator

**Waste Code Details**

**Hazardous Waste Code:** D009  
**Waste Code Description:** MERCURY

**Owner/Operator Details**

**Owner/Operator Ind:** Current Operator  
**Type:** Federal  
**Name:** UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
**Date Became Current:** 20180216  
**Date Ended Current:**  
**Phone:** 440-250-1740  
**Source Type:** Notification

**Street No:**  
**Street 1:** 25063 CENTER RIDGE RD  
**Street 2:**  
**City:** WESTLAKE  
**State:** OH  
**Country:** US  
**Zip Code:** 44145

**Owner/Operator Ind:** Current Owner  
**Type:** Private  
**Name:** NDHMD INC  
**Date Became Current:** 20100325  
**Date Ended Current:**  
**Phone:** 216-341-1500  
**Source Type:** Notification

**Street No:**  
**Street 1:** PO BOX 22384  
**Street 2:**  
**City:** BEACHWOOD  
**State:** OH  
**Country:** US  
**Zip Code:** 44122

**Owner/Operator Ind:** Current Owner  
**Type:** Private  
**Name:** NDHMD INC  
**Date Became Current:** 20100325

**Street No:**  
**Street 1:** PO BOX 22384  
**Street 2:**  
**City:** BEACHWOOD

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Date Ended Current:</b>					<b>State:</b> OH	
<b>Phone:</b>	216-341-1500				<b>Country:</b> US	
<b>Source Type:</b>	Implementer				<b>Zip Code:</b> 44122	
<b>Owner/Operator Ind:</b>	Current Owner				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b> PO BOX 22384	
<b>Name:</b>	FLUORESCENT RECYCLING INC				<b>Street 2:</b>	
<b>Date Became Current:</b>	20180924				<b>City:</b> BEACHWOOD	
<b>Date Ended Current:</b>					<b>State:</b> OH	
<b>Phone:</b>	216-341-1500				<b>Country:</b> US	
<b>Source Type:</b>	Deactivation				<b>Zip Code:</b> 44122	
<b>Owner/Operator Ind:</b>	Current Operator				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b> PO BOX 22384	
<b>Name:</b>	FLUORESCENT RECYCLING INC				<b>Street 2:</b>	
<b>Date Became Current:</b>	20180924				<b>City:</b> BEACHWOOD	
<b>Date Ended Current:</b>					<b>State:</b> OH	
<b>Phone:</b>	216-341-1500				<b>Country:</b> US	
<b>Source Type:</b>	Deactivation				<b>Zip Code:</b> 44122	
<b>Owner/Operator Ind:</b>	Current Owner				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b> PO BOX 22384	
<b>Name:</b>	FLUORESCENT RECYCLING INC				<b>Street 2:</b>	
<b>Date Became Current:</b>	20180924				<b>City:</b> BEACHWOOD	
<b>Date Ended Current:</b>					<b>State:</b> OH	
<b>Phone:</b>	216-341-1500				<b>Country:</b> US	
<b>Source Type:</b>	Notification				<b>Zip Code:</b> 44122	
<b>Owner/Operator Ind:</b>	Current Operator				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b> PO BOX 22384	
<b>Name:</b>	FLUORESCENT RECYCLING INC				<b>Street 2:</b>	
<b>Date Became Current:</b>	20120201				<b>City:</b> BEACHWOOD	
<b>Date Ended Current:</b>					<b>State:</b> OH	
<b>Phone:</b>	216-341-1500				<b>Country:</b> US	
<b>Source Type:</b>	Implementer				<b>Zip Code:</b> 44122	
<b>Owner/Operator Ind:</b>	Current Operator				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b> PO BOX 22384	
<b>Name:</b>	FLUORESCENT RECYCLING INC				<b>Street 2:</b>	
<b>Date Became Current:</b>	20120201				<b>City:</b> BEACHWOOD	
<b>Date Ended Current:</b>					<b>State:</b> OH	
<b>Phone:</b>	216-341-1500				<b>Country:</b> US	
<b>Source Type:</b>	Notification				<b>Zip Code:</b> 44122	

**Historical Handler Details**

**Receive Dt:** 20180322  
**Generator Code Description:** Large Quantity Generator  
**Handler Name:** FLUORESCENT RECYCLING INC

**Receive Dt:** 20160129  
**Generator Code Description:** Not a Generator, Verified  
**Handler Name:** FLUORESCENT RECYCLING INC

**Receive Dt:** 20120911  
**Generator Code Description:** Not a Generator, Verified  
**Handler Name:** FLUORESCENT RECYCLING INC

**Receive Dt:** 20180214  
**Generator Code Description:** Not a Generator, Verified  
**Handler Name:** FLUORESCENT RECYCLING INC

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Delisted Regulated and Non-Regulated Leaking Underground Storage Tanks (LUST)**

<b>Incident No:</b>	181199800.0	<b>Class:</b>	D
<b>Release No:</b>	18010241 - N00001	<b>Class Desc:</b>	A viable RP has been identified
<b>Status:</b>	RPT: a possible incident is reported	<b>Rules:</b>	1992
<b>Sub Status:</b>	Approved	<b>Coordinator:</b>	Charles Zepp
<b>Release Date:</b>	9/3/1991	<b>County:</b>	Cuyahoga
<b>LTF:</b>	2 SUS/CON from non-regulated UST	<b>Facility Latitude:</b>	41.461801
<b>Last Update:</b>	Charles Zepp	<b>Facility Longitude:</b>	-81.733006
<b>Last Update Date:</b>	7/21/2016	<b>Original Source:</b>	NLUT
<b>Last Status Update:</b>	6/22/2016	<b>Record Date:</b>	09-OCT-2019
<b>Priority:</b>	2		

<a href="#">10</a>	2 of 3	SSE	0.15 / 812.53	708.45 / 9	D. E. ROSE CO 3345 W 67TH ST CLEVELAND OH 44102	UST
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<b>Facility (OTTER):</b>		<b>Facility No (Map):</b>	18010241
<b>Fac No (OTTER):</b>	18010241	<b>Fac Name (Map):</b>	D. E. ROSE CO
<b>Fac Name (OTTER):</b>	D. E. ROSE CO	<b>Address (Map):</b>	3345 W 67TH ST
<b>Address (OTTER):</b>	3345 W 67TH ST	<b>City (Map):</b>	CLEVELAND
<b>City (OTTER):</b>	CLEVELAND	<b>State (Map):</b>	Ohio
<b>State (OTTER):</b>		<b>Zip (Map):</b>	44102
<b>Zip (OTTER):</b>	44102	<b>County (Map):</b>	Cuyahoga
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (Map):</b>	41.461801
<b>Latitude (OTTER):</b>		<b>Longitude (Map):</b>	-81.733006
<b>Longitude (OTTER):</b>		<b>Fac ID (BUSTR2):</b>	
<b>Fac No (BUSTR):</b>	18010241	<b>Fac Name (BUSTR2):</b>	
<b>Fac Name (BUSTR):</b>	DE ROSE CO	<b>Address (BUSTR2):</b>	
<b>Address (BUSTR):</b>	3345 W 67TH ST	<b>City (BUSTR2):</b>	
<b>City (BUSTR):</b>	CLEVELAND	<b>Zip (BUSTR2):</b>	
<b>State (BUSTR):</b>	Ohio	<b>Latitude (BUSTR2):</b>	
<b>Zip (BUSTR):</b>	44102	<b>Longitude (BUSTR2):</b>	
<b>County (BUSTR2):</b>			
<b>County (BUSTR):</b>	Cuyahoga		
<b>Latitude (BUSTR):</b>	41.461948		
<b>Longitude (BUSTR):</b>	-81.732948		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER) Search; Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks; BUSTR: All Facility Tanks		

**Ohio Tank Tracking & Environmental Regulations (OTTER) Search**

<b>Old Incident ID:</b>		<b>Date Reported:</b>	
<b>Tank Status:</b>	No Tanks Available	<b>Own Business Name:</b>	DE ROSE CO
<b>Facility URL:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#11363">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#11363</a>		
<b>Release No URL:</b>			

**Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks**

<b>Tank No:</b>	T00001	<b>Date Last Used:</b>	
<b>Status:</b>	REM - Removed	<b>UST Capacity:</b>	10000
<b>UST:</b>	UST	<b>Tank Content:</b>	Heating Oil
<b>Regulated:</b>	NO	<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Unknown	<b>UST Configurations:</b>	SW - Single Wall
<b>Installation Date:</b>		<b>CAS No:</b>	
<b>Date Removed:</b>	08/06/1991	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>			
<b>Owner Address:</b>			
<b>Owner City:</b>			
<b>Owner State:</b>			
<b>Owner Zip:</b>			
<b>Construction:</b>	BM - Bare Metal		
<b>Construction Comments:</b>			
<b>Overfill Prevention:</b>			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Overfill Prev Comments:**  
**Prmry Release Detection:**  
**2ndry Release Detection:**  
**Release Detect Comments:**  
**Spill Prevention Manholes:**  
**Spill Prev Manhole Comment:**  
**Corrosion Protections:**  
**Corrosion Protect Comments:**  
**Piping Configuration:**  
**Piping Config Comment:**  
**Piping Styles:**  
**Piping Construction:**  
**Piping Construct Comments:**  
**Piping Corrosion Protection:**  
**Piping Corr Protect Comments:**  
**Piping Release Detection:**  
**Piping Rel Detect Comments:**  
**Comments:**

**BUSTR: All Facility Tanks**

<b>Tank No:</b>	T00001	<b>Address Out:</b>	3345 W 67th St
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	8/6/1991	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5494
<b>UST Capacity:</b>	10000	<b>Lat:</b>	41.461948
<b>Tank Content:</b>	Heating Oil	<b>Lon:</b>	-81.732948
<b>Label:</b>	18010241 DE ROSE CO	<b>Match:</b>	S80
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	AS0
<b>State:</b>	Ohio	<b>LOC CONF:</b>	2
<b>X:</b>			
<b>Y:</b>			

<a href="#">10</a>	3 of 3	SSE	0.15 / 812.53	708.45 / 9	DE ROSE CO 3345 W 67TH ST CLEVELAND OH 44102	LUST
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<b>Release No:</b>	18010241 - N00001	<b>Release No (Map):</b>	18010241-N00001
<b>Facility Name:</b>	D. E. ROSE CO	<b>Fac Name (Map):</b>	DE ROSE CO
<b>Facility Address:</b>	3345 W 67TH ST	<b>Fac Address (Map):</b>	3345 W 67TH ST
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.461948
<b>Facility Latitude:</b>	41.461801	<b>Longitude (Map):</b>	-81.732948
<b>Facility Longitude:</b>	-81.733006	<b>Fac ID (BUSTR2):</b>	
<b>Release No (OTTER):</b>		<b>IncidntID (BUSTR2):</b>	
<b>Fac Name (OTTER):</b>		<b>Fac Name (BUSTR2):</b>	
<b>FacAddress (OTTER):</b>		<b>Address (BUSTR2):</b>	
<b>Fac City (OTTER):</b>		<b>City (BUSTR2):</b>	
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	
<b>Fac ZIP (OTTER):</b>		<b>County (BUSTR2):</b>	
<b>County (OTTER):</b>		<b>Latitude (BUSTR2):</b>	
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	
<b>Fac Name (BUSTR):</b>		<b>Fac Addr (BUSTR):</b>	
<b>Fac City (BUSTR):</b>		<b>Fac State (BUSTR):</b>	
<b>Fac ZIP (BUSTR):</b>		<b>Fac County (BUSTR):</b>	
<b>Latitude (BUSTR):</b>		<b>Longitude (BUSTR):</b>	

**Data Source:** Map Services Directory: BUSTR (MapServer): All Environmental (MAP)

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.732948
<b>FR Status:</b>	RPT: a possible incident is reported	<b>Match:</b>	S80

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Label:</b>	18010241 - N00001	DE ROSE CO			<b>LOC QUAL:</b> ASO	
<b>Release No:</b>	18010241 - N00001				<b>Facility Z:</b> 44102	
<b>Date:</b>	9/21/2020				<b>LOC CONF:</b> 2	
<b>Address Out:</b>	3345 W 67th St				<b>Date Process:</b> 20200923	
<b>City Out:</b>	Cleveland				<b>FID:</b>	
<b>State Out:</b>	OH				<b>X:</b> -81.732948	
<b>ZIP Out:</b>	44102-5494				<b>Y:</b> 41.461948	
<b>Lat:</b>	41.461948					

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	10050	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	181199800.0	<b>LTF:</b>	2 SUS/CON from non-regulated UST
<b>Last Review Date:</b>	6/22/2016	<b>Rating:</b>	
<b>Release Date:</b>	9/3/1991	<b>Facility Name:</b>	D. E. ROSE CO
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	3345 W 67TH ST
<b>Last Update Date:</b>	4/16/2021	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	CLO: Closure	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	4/16/2021	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Submitted	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.461801
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.733006
<b>Rules:</b>	1992		

11 1 of 1 E 0.17 / 909.31 690.86 / -9 West 65th Street Equity Partners West 65th Street and West 67th Place Cleveland OH 44102

FED BROWNFIELDS

<b>Property ID:</b>	12633	<b>BF Property (Map):</b>	12633
<b>Lat Measure:</b>	41.4669	<b>Latitude (Map):</b>	41.4669
<b>Long Measure:</b>	-81.7301	<b>Longitude (Map):</b>	-81.7301
<b>Property Name:</b>	West 65th Street Equity Partners		
<b>Address:</b>	West 65th Street and West 67th Place		
<b>City:</b>	Cleveland		
<b>State Code:</b>	OH		
<b>Zip Code:</b>	44102		
<b>Primary Name (Map):</b>	WEST 65TH STREET EQUITY PARTNERS		
<b>Location Address (Map):</b>	WEST 65TH STREET AND WEST 67TH PLACE		
<b>City Name (Map):</b>	CLEVELAND		
<b>County Name (Map):</b>	CUYAHOGA		
<b>State Code (Map):</b>	OH		
<b>Postal Code (Map):</b>	44102		

**Brownfields Details**

<b>Registry I:</b>	110039545506	<b>EPA ID:</b>	
<b>EPA Region:</b>	05	<b>BF RLF Gra:</b>	
<b>Cat No:</b>	04110002	<b>BF RLF Pil:</b>	
<b>RCRA Handl:</b>		<b>BF Assess :</b>	Y
<b>RCRA Curre:</b>		<b>BF Cleanup:</b>	
<b>RCRA Remed:</b>		<b>BF Tba Ind:</b>	
<b>RCRA Const:</b>		<b>BF 128a In:</b>	
<b>RCRA EI He:</b>		<b>BF IC Code:</b>	U
<b>RCRA EI Gm:</b>		<b>BF IC Gc I:</b>	U
<b>RCRA Rem 1:</b>		<b>BF IC Ep I:</b>	U
<b>RCRA Ec Gw:</b>		<b>BF IC ID I:</b>	U
<b>RCRA Ec Ng:</b>		<b>BF IC Pr I:</b>	U
<b>RCRA IC Ep:</b>		<b>FF Brac In:</b>	
<b>RCRA IC Gc:</b>		<b>BF RLF Ind:</b>	
<b>RCRA IC ID:</b>		<b>BF Assess1:</b>	
<b>RCRA IC Pr:</b>		<b>BF Multipu:</b>	
<b>FF RCRA In:</b>		<b>BF Awp Ind:</b>	
<b>RCRA Trans:</b>		<b>BF Showcas:</b>	
<b>RCRA Tra 1:</b>		<b>BF 128a P :</b>	
<b>RCRA Ec Co:</b>		<b>LUST Relea:</b>	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RCRA IC Co:					LUST Award:	
RCRA Gpra :					LUST State:	
RCRA Rem 2:					Congressio:	OH-09
RCRA Dru 1:					FD Agency :	
SF Site ID:					FD Listing:	
SF Ec Ind:					FD Non NPL:	
SF EI Gm C:					FD RCRA Ha:	
SF EI He C:					FD RCRA Ca:	
SF IC Ind:					FD SF NPL :	
SF NPL Cod:					FD FF Ind:	
SF NPL C 1:					FD Ej Code:	
SF Admin F:					FD Brac In:	
FF And Sit:					FD Federal:	
FF SF Ind:					FD Hrs Sco:	
Map Symbol:	B				FD Ongoing:	
Data Refre:	29-Jul-2022				FD NPL Sta:	
GIS Refres:					FD Non N 1:	
New Site:					FD RCRA Gw:	
Repow Ref :			https://cimc.epa.gov/ords/cimc/f?p=CIMC:REPOWER::::P33_REF:14788		FD RCRA He:	
EPAOSC Sit:					FD GMS Sur:	
EPAOSC Res:					FD Hes Sur:	
EPAOSC R 1:					FD SF Site:	
EPAOSC Sta:					FD Brac Ro:	
EPAOSC Inc:					Stimulus S:	
Desc :					Stimulus B:	
Ind Name:						
Cat Name:		Cuyahoga				
Sub Name:		Cuyahoga				
Primary Name:		WEST 65TH STREET EQUITY PARTNERS				
RCRA Drupa:						
Url:					https://obipublic11.epa.gov/analytics/saw.dll?PortalPages&Action=Navigate&col1=ACRES_GRANT_EXPORT.PROPERTY_ID&val1=%2212633.0%22&PortalPath=/shared/CIMC/_portal/CIMC&Page=Profile+Page	
Census Url:					https://ejscreen.epa.gov/mapper/demogreportpdf.aspx?report=census2010sf1&coords=-81.73010000000001%2C41.4669&featype=point&radius=1.0	
ACS Url:					https://ejscreen.epa.gov/mapper/demogreportpdf.aspx?report=acs2017&coords=-81.73010000000001%2C41.4669&featype=point&radius=1.0	
SF Site Na:					UST Status:	
SF Non Npl:					UST Substa:	
SF Non N 1:					UST Landus:	
SF Non N 3:					UST SPA Wa:	
ERR Lat Lo:					UST SPA Fa:	
REPOW BF:	SGWB				UST WHPA W:	
REPOW SF:					UST WHPA F:	
REPOW RCRA:					UST Open:	
REPOW Ref1:	14788				UST Closed:	
RCRA Han 1:					LUST ID:	
RCRA Rau I:					Saa Site:	
BF Propert:		12633-				
REPOW Re 1:		<a target="_blank" href="https://cimc.epa.gov/ords/cimc/f?p=CIMC:REPOWER::::P33_REF:14788">RE-Powering Site Profile</a>				
BF Prope 1:		West 65th Street Equity Partners				
SF Non N 2:						
<b><u>Cleanups In My Community (CIMC)</u></b>						
Grant ID:	48550283				ASMT Cntrl Sub :	
Grant Type:	Assessment				Cleanup Cntrl Sub :	
EPA Region:	05				ASMT Asbestos :	
Ownership Entity:					Cleanup Asbestos :	
Latitude Measure:	41.4669				ASMT Pcb :s	
Longitude Measure:	-81.7301				Cleanup Pcb :s	
Flag Cleanup Reqd:					ASMT Vocs :	
Flag IC Required:					Cleanup Vocs :	
Stcntrbg:					ASMT Lead :	
Property Size:	14				Cleanup Lead :	
Flag IC in Place:	U				ASMT Oth Metal :	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
IC in Place Date:					Cleanup Oth Metal :	
Prop Cntrl :					ASMT Pahs :	
Gov Cntrl :					Cleanup Pahs :	
Permit Tools :					ASMT Oth Cont:	
Info DevICes :					Cleanup Oth Cont:	
Prop Fnding Type Cd:					ASMT Air :	
Ownshp Changed :					Cleanup Air :	
Sfllp Factor :					ASMT Drk Wat:	
Source Mapscale No: 100000					Cleanup Drk Wat:	
Past Cml Acres:					ASMT Grd Water:	
Future Cml Acres:					Cleanup Grd Water:	
Past Grnspc Acres:					ASMT Sediments :	
Future Grnspc Acres:					Cleanup Sediments :	
Past Acres:					ASMT Soil :	
Future Acres:					Cleanup Soil :	
Past Res Acres:					ASMT Srf Water :	
Future Res Acres:					Cleanup Srf Water :	
St Enrollment Dt:					Other Media :	
St Enrollment ID:					Unknown Media :	
St NFA Dt:					Ready For Reuse :	N
Assess Petrol Prod :					Assess Amount:	
Cleanup Petrol Prod :					Assess Fnd Ent Nm:	
Assess Start Dt: 03/31/2001					Photo Available :	
Assess Cmpltn Dt: 03/31/2001					Video Available :	
Cleanup Start Dt:					Cleanup Acres :	
Cleanup Cmpltn Dt:					Cleanup Amount:	
Redev Start Dt:					Redev Acres:	
Redev Cleanup Jobs:					Redev Amount:	
Grant Recipient Nm:		Cleveland, City of				
PropertyNm:		West 65th Street Equity Partners				
Address:		West 65th Street and West 67th Place				
City:		Cleveland				
State Code:		OH				
Zip Code:		44102				
Local Parcel No:						
Current Owner:						
IC Data Address:						
Horizontal Collection Method:		Address Matching-Nearest Intersection				
Reference Point:		Entrance Point of a Facility or Station				
Horizontal Reference Datum:		North American Datum of 1983				
Other Description:						
Other Desc Cleaned Up:						
Assess Type:		Phase I Environmental Assessment				
Assess Fund Entity:						
Cleanup Funding EntityNm:						
Cleanup Fund Entity:						
Redev Funding Entity Nm:						
Desc Hist:		stockyard and meatpacking operation				
Accmplisht Cnt Flag: N					Vacant Housing: 527	
Coop Agreement No: 98594901					Vacant Housing Pct: 21.98	
Past Mltistry Acres:					Total Unemployed: 605	
Ftr Multistory Acres:					Unemployed Pct: 11.87	
Assess Cadmium :					Radius: .5	
Clnup Cadmium :					Actvy Funded:	
Assess Chromium :					Redev Lvrgd Srcs:	
Clnup Chromium :					AA Amt Funding:	
Assess Copper :					Flag Clnup Trmt Tech:	
Clnup Copper :					Excavation Disposal:	
Assess Iron :					Extrctn of Cntmnts:	
Clnup Iron :					Removal of Mats:	
Assess Nickel :					Rdctn of Cntmnts:	
Clnup Nickel :					Clnup of Structures:	
Assess Selenium :					Env EC Required:	
Clnup Selenium :					Flag EC Cover Tech:	
Assess Mercury :					Flag EC Security:	
Clnup Mercury :					Flag EC Immbliztn:	
Assess ArsenIC :					Flag EC Eng Barriers:	
Clnup ArsenIC :					Flag EC Other:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Assess Bldg Mats :					Env IC in Place:	U
Clnup Bldg Mats :					Env EC in Place:	
Assess oorair :					Env Clnup Jobs:	
Clnup oorair :					Sect 128 A State Trbl:	
Assess None :					Multipurpose:	
Clnup None :					Clnup Cst Shr Amt:	
Assess Pesticides :					RLF Loan Amount:	
Clnup Pesticides :					RLF Ln Cst Shr Amt:	
Assess Unknown :					Pro Income Amt:	
Clnup Unknown :					Dt RLF Loan Signed:	
Assess Svocs :					Repayment Period:	
Clnup Svocs :					Interest Rate:	
Clnup Unkn Media :					RLF Subgrant Amt:	
Redev Cmpltn Date:					Cost Share Amt:	
Pro Code:	BP				Env Pro Income Amt:	
FCA Fy:					Dt RLF Sbrgrnt Signd:	
Flag EC in Place:					Clnup Actvy Funded:	
Flag EC Required:					Below Poverty:	2389
RFR Notation:					Below Poverty Pct:	46.85
Gpa Type ID:	1				Median Income:	4340
Clnup Doc:	N				Low Income:	4132
Awp Catalyst Yn:					Low Income Pct:	81.04
Flag Prop Not Enrld:						
Redev Fund Entity:						
Gpa Type Desc:		Phase I Environmental Assessment				
AA Actvy Funded:						
AA Source of Funding:						
Clnup Trmt Tech Info:						
EC Data Address:						
EC Addl Info:						
Env IC Data Address:						
Other Forms of Doc:						
IC Addl Info:						
Highlights:		Former Use: stockyard and meatpacking operation				
Property Alias:						
Ctmnt Found:						
Ctmnt Cleanedup:						
Ctmnt Rec:						
Media Affected:						

12      1 of 4      E      0.17 / 921.59      695.95 / -4      SWIFT COMPANY  
3229 WEST 65TH STREET      CERCLIS  
CLEVELAND OH 44114

Site ID:	0506489	RNPL Status Code:	N
Site EPA ID:	OHD987015526	NPL Status:	Not on the NPL
Site Street Address 2:		RFED Facility Code:	N
Site County Name:	CUYAHOGA	RFED Facility Desc:	Not a Federal Facility
Site FIPS Code:	39035	USGS Hydro Unit No.:	04110003
Region Code:	05	Site Cong. Dist. Code:	10
Site SMSA No.:	1680	ROT Desc:	Unknown
Site Prim. Latitude:	+41.468333	FR NPL Update No.:	
Site Prim. Longitude:	-081.730833	RFRA Code:	
Lat Long Source:			
RNON NPL Status Desc:	NFRAP-Site does not qualify for the NPL based on existing information		

**CERCLIS Assess History**

OU ID:	00	RALT Short Name:	State (Fund)
Act Code ID:	001	Act Start Date:	
RAT Code:	PA	Act Complete Date:	9/15/1992 00:00:00
RAT Short Name:	PA	AGT Order No.:	130
RAT Name:	PRELIMINARY ASSESSMENT	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAT Level: 1  
 RAT DEF OU: 00  
 RFBS Code: P  
 SPA Code: 13  
 RAT Def:

SH Start Date:  
 SH Complete Date:  
 SH Lead:

Collection of diverse existing information about the source and nature of the site hazard. It is EPA policy to complete the preliminary assessment within one year of site discovery.

Site Desc:  
 Site Alias:

**CERCLIS Assess History**

OU ID: 00  
 Act Code ID: 001  
 RAT Code: VS  
 RAT Short Name: ARCH SITE  
 RAT Name: ARCHIVE SITE  
 RAT Hist. Only Flag:  
 RAT NSI Indicator: B  
 RAT Level: 1  
 RAT DEF OU: 00  
 RFBS Code:  
 SPA Code: 13  
 RAT Def:

RALT Short Name: EPA In-House  
 Act Start Date:  
 Act Complete Date: 2/24/1997 00:00:00  
 AGT Order No.: 1500  
 SH OU:  
 SH Code:  
 SH Seq:  
 SH Start Date:  
 SH Complete Date:  
 SH Lead:

The decision is made that no further activity is planned at the site.

Site Desc:  
 Site Alias:

**CERCLIS Assess History**

OU ID: 00  
 Act Code ID: 001  
 RAT Code: SI  
 RAT Short Name: SI  
 RAT Name: SITE INSPECTION  
 RAT Hist. Only Flag:  
 RAT NSI Indicator: B  
 RAT Level: 1  
 RAT DEF OU: 00  
 RFBS Code: P  
 SPA Code: 13  
 RAT Def:

RALT Short Name: EPA Fund  
 Act Start Date: 9/22/1994 00:00:00  
 Act Complete Date: 9/26/1994 00:00:00  
 AGT Order No.: 160  
 SH OU:  
 SH Code:  
 SH Seq:  
 SH Start Date:  
 SH Complete Date:  
 SH Lead:

The process of collecting site data and samples to characterize the severity of the hazard for the hazard ranking score and/or enforcement support.

Site Desc:  
 Site Alias:

**CERCLIS Assess History**

OU ID: 00  
 Act Code ID: 001  
 RAT Code: DS  
 RAT Short Name: DISCVRY  
 RAT Name: DISCOVERY  
 RAT Hist. Only Flag:  
 RAT NSI Indicator: B  
 RAT Level: 1  
 RAT DEF OU: 00  
 RFBS Code:  
 SPA Code: 13  
 RAT Def:

RALT Short Name: EPA In-House  
 Act Start Date:  
 Act Complete Date: 4/3/1991 00:00:00  
 AGT Order No.: 10  
 SH OU:  
 SH Code:  
 SH Seq:  
 SH Start Date:  
 SH Complete Date:  
 SH Lead:

The process by which a potential hazardous waste site is brought to the attention of the EPA. The process can occur through the use of several mechanisms such as a phone call or referral by another government agency.

Site Desc:  
 Site Alias:

**CERCLIS Assess History**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>OU ID:</b>	00				<b>RALT Short Name:</b> EPA Fund	
<b>Act Code ID:</b>	001				<b>Act Start Date:</b> 5/20/1991 00:00:00	
<b>RAT Code:</b>	AR				<b>Act Complete Date:</b>	
<b>RAT Short Name:</b>	ADMM REC				<b>AGT Order No.:</b> 580	
<b>RAT Name:</b>	ADMINISTRATIVE RECORDS				<b>SH OU:</b>	
<b>RAT Hist. Only Flag:</b>					<b>SH Code:</b>	
<b>RAT NSI Indicator:</b>	B				<b>SH Seq:</b>	
<b>RAT Level:</b>	1				<b>SH Start Date:</b>	
<b>RAT DEF OU:</b>	00				<b>SH Complete Date:</b>	
<b>RFBS Code:</b>	P				<b>SH Lead:</b>	
<b>SPA Code:</b>	13					
<b>RAT Def:</b>					SARA specifies that administrative records be compiled at Superfund sites where remedial or removal responses are planned, or are occurring, or where EPA is issuing a unilateral order or initiating litigation to track enforcement case budget funds used for any RP lead activity.	
<b>Site Desc:</b>						
<b>Site Alias:</b>						

**CERCLIS Assess History**

<b>OU ID:</b>	00				<b>RALT Short Name:</b>	
<b>Act Code ID:</b>					<b>Act Start Date:</b>	
<b>RAT Code:</b>					<b>Act Complete Date:</b>	
<b>RAT Short Name:</b>					<b>AGT Order No.:</b> 0	
<b>RAT Name:</b>					<b>SH OU:</b>	
<b>RAT Hist. Only Flag:</b>					<b>SH Code:</b>	
<b>RAT NSI Indicator:</b>					<b>SH Seq:</b>	
<b>RAT Level:</b>					<b>SH Start Date:</b>	
<b>RAT DEF OU:</b>					<b>SH Complete Date:</b>	
<b>RFBS Code:</b>					<b>SH Lead:</b>	
<b>SPA Code:</b>						
<b>RAT Def:</b>						
<b>Site Desc:</b>					OLD MEAT PACKAGING PLANT. IMPROPER ASBESTOS REMOVAL, DISPOSAL UNDERWAY. OCI & FBI INVOLVED.	
<b>Site Alias:</b>					No alias data available	

**CERCLIS Assess History**

<b>OU ID:</b>	00				<b>RALT Short Name:</b> EPA Fund	
<b>Act Code ID:</b>	001				<b>Act Start Date:</b> 4/8/1991 00:00:00	
<b>RAT Code:</b>	RV				<b>Act Complete Date:</b> 4/1/1992 00:00:00	
<b>RAT Short Name:</b>	RMVL				<b>AGT Order No.:</b> 70	
<b>RAT Name:</b>	REMOVAL				<b>SH OU:</b>	
<b>RAT Hist. Only Flag:</b>					<b>SH Code:</b>	
<b>RAT NSI Indicator:</b>	B				<b>SH Seq:</b>	
<b>RAT Level:</b>	1				<b>SH Start Date:</b>	
<b>RAT DEF OU:</b>	00				<b>SH Complete Date:</b>	
<b>RFBS Code:</b>	V				<b>SH Lead:</b>	
<b>SPA Code:</b>	08					
<b>RAT Def:</b>					Response action that requires expeditious attention to reduce imminent and substantial dangers to human health, welfare, or the environment or an emergency response required within hours or days to address acute situations involving actual or potential threat to human health, the environment, or real or personal property due to the release of a hazardous substance. Characterization of a removal action as removal, not immediate removal or planned removal, started at the beginning of FY 1987. This code now takes the place of immediate removal (IR) and planned removal (PR).	
<b>Site Desc:</b>						
<b>Site Alias:</b>						

<b>12</b>	<b>2 of 4</b>	<b>E</b>	<b>0.17 / 921.59</b>	<b>695.95 / -4</b>	<b>SWIFT COMPANY 3229 WEST 65TH STREET CLEVELAND OH 44114</b>	<b>CERCLIS NFRAP</b>
<b>Site ID:</b>	506489				<b>Site FIPS Code:</b> 39035	
<b>Site EPA ID:</b>	OHD987015526				<b>Region Code:</b> 5	
<b>Site Parent ID:</b>					<b>Site Cong. Dist. Code:</b> 10	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Site County Name: CUYAHOGA Federal Facility:  
 Parent Site Name:

**CERCLIS-NFRAP Assess History**

OU ID:	0	Act Start Date:	4/8/1991
Act Code ID:	1	Act Complete Date:	4/1/1992
RAT Code:	RV	AGT Order No.:	70
RAT Short Name:	RMVL	SH OU:	
RAT Name:	REMOVAL	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:	V	SH Qual:	
SPA Code:	08	RAQ Act. Qual Short:	Cleaned Up
RALT Short Name:	EPA Fund	RNPL Status Code:	N
RAT Def:	Response action that requires expeditious attention to reduce imminent and substantial dangers to human health, welfare, or the environment or an emergency response required within hours or days to address acute situations involving actual or potential threat to human health, the environment, or real or personal property due to the release of a hazardous substance. Characterization of a removal action as removal, not immediate removal or planned removal, started at the beginning of FY 1987. This code now takes the place of immediate removal (IR) and planned removal (PR).		

**RNON NPL Status Desc:** NFRAP-Site does not qualify for the NPL based on existing information

**CERCLIS-NFRAP Assess History**

OU ID:	0	Act Start Date:	9/22/1994
Act Code ID:	1	Act Complete Date:	9/26/1994
RAT Code:	SI	AGT Order No.:	160
RAT Short Name:	SI	SH OU:	
RAT Name:	SITE INSPECTION	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:	P	SH Qual:	
SPA Code:	13	RAQ Act. Qual Short:	NFRAP
RALT Short Name:	EPA Fund	RNPL Status Code:	N
RAT Def:	The process of collecting site data and samples to characterize the severity of the hazard for the hazard ranking score and/or enforcement support.		

**RNON NPL Status Desc:** NFRAP-Site does not qualify for the NPL based on existing information

**CERCLIS-NFRAP Assess History**

OU ID:	0	Act Start Date:	5/20/1991
Act Code ID:	1	Act Complete Date:	
RAT Code:	AR	AGT Order No.:	580
RAT Short Name:	ADMM REC	SH OU:	
RAT Name:	ADMINISTRATIVE RECORDS	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:	P	SH Qual:	
SPA Code:	13	RAQ Act. Qual Short:	Removal AR
RALT Short Name:	EPA Fund	RNPL Status Code:	N
RAT Def:	SARA specifies that administrative records be compiled at Superfund sites where remedial or removal responses are planned, or are occurring, or where EPA is issuing a unilateral order or initiating litigation to track enforcement case budget funds used for any RP lead activity.		

**RNON NPL Status Desc:** NFRAP-Site does not qualify for the NPL based on existing information

**CERCLIS-NFRAP Assess History**

OU ID:	0	Act Start Date:	
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Act Code ID:</b>	1				<b>Act Complete Date:</b> 9/15/1992	
<b>RAT Code:</b>	PA				<b>AGT Order No.:</b> 130	
<b>RAT Short Name:</b>	PA				<b>SH OU:</b>	
<b>RAT Name:</b>	PRELIMINARY ASSESSMENT				<b>SH Code:</b>	
<b>RAT Hist. Only Flag:</b>					<b>SH Seq:</b>	
<b>RAT NSI Indicator:</b>	B				<b>SH Start Date:</b>	
<b>RAT Level:</b>	1				<b>SH Complete Date:</b>	
<b>RAT DEF OU:</b>	00				<b>SH Lead:</b>	
<b>RFBS Code:</b>	P				<b>SH Qual:</b>	
<b>SPA Code:</b>	13				<b>RAQ Act. Qual Short:</b> Low priority	
<b>RALT Short Name:</b>	State (Fund)				<b>RNPL Status Code:</b> N	
<b>RAT Def:</b>	Collection of diverse existing information about the source and nature of the site hazard. It is EPA policy to complete the preliminary assessment within one year of site discovery.					
<b>RNON NPL Status Desc:</b>	NFRAP-Site does not qualify for the NPL based on existing information					

**CERCLIS-NFRAP Assess History**

<b>OU ID:</b>	0				<b>Act Start Date:</b>	
<b>Act Code ID:</b>	1				<b>Act Complete Date:</b> 2/24/1997	
<b>RAT Code:</b>	VS				<b>AGT Order No.:</b> 1500	
<b>RAT Short Name:</b>	ARCH SITE				<b>SH OU:</b>	
<b>RAT Name:</b>	ARCHIVE SITE				<b>SH Code:</b>	
<b>RAT Hist. Only Flag:</b>					<b>SH Seq:</b>	
<b>RAT NSI Indicator:</b>	B				<b>SH Start Date:</b>	
<b>RAT Level:</b>	1				<b>SH Complete Date:</b>	
<b>RAT DEF OU:</b>	00				<b>SH Lead:</b>	
<b>RFBS Code:</b>					<b>SH Qual:</b>	
<b>SPA Code:</b>	13				<b>RAQ Act. Qual Short:</b>	
<b>RALT Short Name:</b>	EPA In-House				<b>RNPL Status Code:</b> N	
<b>RAT Def:</b>	The decision is made that no further activity is planned at the site.					
<b>RNON NPL Status Desc:</b>	NFRAP-Site does not qualify for the NPL based on existing information					

**CERCLIS-NFRAP Assess History**

<b>OU ID:</b>	0				<b>Act Start Date:</b>	
<b>Act Code ID:</b>	1				<b>Act Complete Date:</b> 4/3/1991	
<b>RAT Code:</b>	DS				<b>AGT Order No.:</b> 10	
<b>RAT Short Name:</b>	DISCVRY				<b>SH OU:</b>	
<b>RAT Name:</b>	DISCOVERY				<b>SH Code:</b>	
<b>RAT Hist. Only Flag:</b>					<b>SH Seq:</b>	
<b>RAT NSI Indicator:</b>	B				<b>SH Start Date:</b>	
<b>RAT Level:</b>	1				<b>SH Complete Date:</b>	
<b>RAT DEF OU:</b>	00				<b>SH Lead:</b>	
<b>RFBS Code:</b>					<b>SH Qual:</b>	
<b>SPA Code:</b>	13				<b>RAQ Act. Qual Short:</b>	
<b>RALT Short Name:</b>	EPA In-House				<b>RNPL Status Code:</b> N	
<b>RAT Def:</b>	The process by which a potential hazardous waste site is brought to the attention of the EPA. The process can occur through the use of several mechanisms such as a phone call or referral by another government agency.					
<b>RNON NPL Status Desc:</b>	NFRAP-Site does not qualify for the NPL based on existing information					

[12](#)

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921.59

695.95 /  
-4

Swift Co, Cleveland  
3229 W 65th St  
Cleveland OH 44114

DERR

<b>DERR ID:</b>	218001631	<b>County:</b>	Cuyahoga
<b>CERCLIS ID:</b>	OHD987015526	<b>District:</b>	NEDO
<b>Program:</b>	SA, RR	<b>Latitude:</b>	41.462902
<b>Program Desc:</b>	Site Assessment, Remedial Response	<b>Longitude:</b>	-81.73
<b>Address (REST):</b>	3229 W 65th St	<b>Cerclis iID (REST):</b>	OHD987015526
<b>City (REST):</b>	Cleveland	<b>OepaDstrct (REST):</b>	NEDO
<b>Zip (REST):</b>	44114	<b>Activity (REST):</b>	SA, RR
<b>County (REST):</b>	Cuyahoga	<b>DERR ID (REST):</b>	218001631
<b>LatDd Begin (REST):</b>	41.462902	<b>LonDd Begin (REST):</b>	-81.73
<b>Source:</b>	Ohio EPA: DERR Database; REST Services Directory: DERR Database (OEPA-DERR)		
<b>Name (REST):</b>	Swift Co, Cleveland		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**REST Services Directory: DERR Database (OEPA-DERR)**

<b>Cerclis ID:</b>	OHD987015526	<b>Address:</b>	3229 W 65th St
<b>Alias:</b>		<b>City:</b>	Cleveland
<b>Activity:</b>	SA, RR	<b>Zip:</b>	44114
<b>ODoT District:</b>	12	<b>Latitude DD Begin:</b>	41.462902
<b>OEPA District:</b>	NEDO	<b>Longitude DD Begin:</b>	-81.73
<b>County:</b>	Cuyahoga		
<b>Name:</b>	Swift Co, Cleveland		

<a href="#">12</a>	4 of 4	E	0.17 / 921.59	695.95 / -4	<b>SWIFT COMPANY 3229 WEST 65TH STREET CLEVELAND OH 44114</b>	<b>SEMS ARCHIVE</b>
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<b>Site ID:</b>	0506489	<b>FIPS Code:</b>	39035
<b>EPA ID:</b>	OHD987015526	<b>Cong District:</b>	10
<b>Superfund Alt Agmt:</b>	No	<b>Region:</b>	05
<b>Federal Facility:</b>	No	<b>County:</b>	CUYAHOGA
<b>FF Docket:</b>	No		
<b>NPL:</b>	Not on the NPL		
<b>Non NPL Status:</b>	NFRAP-Site does not qualify for the NPL based on existing information		

**Action Information**

<b>Operable Units:</b>	00	<b>Start Actual:</b>	05/20/1991
<b>Action Code:</b>	AR	<b>Finish Actual:</b>	
<b>Action Name:</b>	ADMIN REC	<b>Qual:</b>	V
<b>SEQ:</b>	1	<b>Curr Action Lead:</b>	EPA Perf
<b>Operable Units:</b>	00	<b>Start Actual:</b>	04/08/1991
<b>Action Code:</b>	RV	<b>Finish Actual:</b>	04/01/1992
<b>Action Name:</b>	RMVL	<b>Qual:</b>	C
<b>SEQ:</b>	1	<b>Curr Action Lead:</b>	EPA Perf
<b>Operable Units:</b>	00	<b>Start Actual:</b>	
<b>Action Code:</b>	VS	<b>Finish Actual:</b>	02/24/1997
<b>Action Name:</b>	ARCH SITE	<b>Qual:</b>	
<b>SEQ:</b>	1	<b>Curr Action Lead:</b>	EPA Perf In-Hse
<b>Operable Units:</b>	00	<b>Start Actual:</b>	04/03/1991
<b>Action Code:</b>	DS	<b>Finish Actual:</b>	04/03/1991
<b>Action Name:</b>	DISCVRY	<b>Qual:</b>	
<b>SEQ:</b>	1	<b>Curr Action Lead:</b>	EPA Perf In-Hse
<b>Operable Units:</b>	00	<b>Start Actual:</b>	
<b>Action Code:</b>	PA	<b>Finish Actual:</b>	09/15/1992
<b>Action Name:</b>	PA	<b>Qual:</b>	L
<b>SEQ:</b>	1	<b>Curr Action Lead:</b>	St Perf
<b>Operable Units:</b>	00	<b>Start Actual:</b>	09/22/1994
<b>Action Code:</b>	SI	<b>Finish Actual:</b>	09/26/1994
<b>Action Name:</b>	SI	<b>Qual:</b>	N
<b>SEQ:</b>	1	<b>Curr Action Lead:</b>	EPA Perf

<a href="#">13</a>	1 of 2	E	0.19 / 1,000.78	698.97 / -1	<b>AAROMET METALLICS 3207 WEST 65TH ST CLEVELAND OH 44102</b>	<b>LUST</b>
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<b>Release No:</b>	18011172 - N00001	<b>Release No (Map):</b>	18011172-N00001
<b>Facility Name:</b>	AAROMET METALLICS	<b>Fac Name (Map):</b>	AAROMET METALLICS
<b>Facility Address:</b>	3207 WEST 65TH ST	<b>Fac Address (Map):</b>	3207 WEST 65TH ST
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.46645

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Facility Latitude:</b>	41.466618				<b>Longitude (Map):</b>	-81.72995
<b>Facility Longitude:</b>	-81.729392				<b>Fac ID (BUSTR2):</b>	18011172
<b>Release No (OTTER):</b>	18011172-N00001				<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	AAROMET METALLICS				<b>Fac Name (BUSTR2):</b>	AAROMET METALLICS
<b>FacAddress (OTTER):</b>	3207 WEST 65TH ST				<b>Address (BUSTR2):</b>	3207 WEST 65TH ST
<b>Fac City (OTTER):</b>	CLEVELAND				<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>					<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102				<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga				<b>Latitude (BUSTR2):</b>	41.466749
<b>Latitude (OTTER):</b>					<b>Longitude (BUSTR2):</b>	41.466749
<b>Longitude (OTTER):</b>					<b>Release No (BUSTR):</b>	18011172-N00001
<b>Fac Name (BUSTR):</b>	AAROMET METALLICS				<b>Fac Addr (BUSTR):</b>	3207 WEST 65TH ST
<b>Fac City (BUSTR):</b>	CLEVELAND				<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102				<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.466618				<b>Longitude (BUSTR):</b>	-81.729392
<b>Facility (OTTER):</b>	18011172 (AAROMET METALLICS)					
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/GRIP) (BUSTR2)					

#### Facility Details with Active & Inactive Environmental Files (BUSTR)

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	4/18/2008
<b>LTF Status:</b>	6 Closure of regulated UST	<b>Review Date:</b>	04/18/2008
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	04/09/2008	<b>Class:</b>	A
<b>Class Description:</b>	A Responsible Party (RP) for the release has not yet been determined		

#### Ohio Tank Tracking & Environmental Regulations (OTTER)

<b>Old Incident ID:</b>		<b>Date Reported:</b>	4/9/2008
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	AAROMET METALLICS
<b>Facility:</b>	18011172 (AAROMET METALLICS)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#14415">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#14415</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34272">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34272</a>		

#### Map Services Directory: BUSTR (MapServer): All Environmental (MAP)

<b>Object ID:</b>		<b>Long:</b>	-81.72995
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18011172 - N00001 AAROMET METALLICS	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18011172 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	3207 W 65th St	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.72995
<b>ZIP Out:</b>	44102-5509	<b>Y:</b>	41.46645
<b>Lat:</b>	41.46645		

#### Map Services Directory: BUSTR - LUST Locations (BUSTR2)

<b>Object ID:</b>	13589	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18011172	<b>Address:</b>	3207 WEST 65TH ST
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	6 Closure of regulated UST	<b>County:</b>	CUY
<b>Status:</b>	M	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.466749
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	41.466749
<b>Current Fac Name:</b>	AAROMET METALLICS		

#### All Active-Inactive BUSTR Sites

<b>S No:</b>	878	<b>Coordinator:</b>	Charles Zepp
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Incident No:</b>				<b>LTF:</b>	6 Closure of regulated UST	
<b>Last Review Date:</b>	4/18/2008			<b>Rating:</b>	9	
<b>Release Date:</b>	4/9/2008			<b>Facility Name:</b>	AAROMET METALLICS	
<b>Last Update:</b>	Scott Sigler			<b>Facility Address:</b>	3207 WEST 65TH ST	
<b>Last Update Date:</b>	11/9/2018			<b>Facility City:</b>	CLEVELAND	
<b>Status:</b>	NFA: No Further Action			<b>Facility State:</b>	Ohio	
<b>Last Status Update:</b>	4/18/2008			<b>County:</b>	Cuyahoga	
<b>Substatus:</b>				<b>Facility ZIP:</b>	44102	
<b>Priority:</b>	2			<b>Facility Latitude:</b>	41.466618	
<b>Class:</b>	A			<b>Facility Longitude:</b>	-81.729392	
<b>Rules:</b>	2005					

[13](#)    2 of 2    **E**    0.19 / 1,000.78    698.97 / -1    **AAROMET METALLICS**  
**3207 WEST 65TH ST**  
**CLEVELAND OH 44102**    **UST**

<b>Facility (OTTER):</b>		<b>Facility No (Map):</b>	18011172
<b>Fac No (OTTER):</b>	18011172	<b>Fac Name (Map):</b>	AAROMET METALLICS
<b>Fac Name (OTTER):</b>	AAROMET METALLICS	<b>Address (Map):</b>	3207 WEST 65TH ST
<b>Address (OTTER):</b>	3207 WEST 65TH ST	<b>City (Map):</b>	CLEVELAND
<b>City (OTTER):</b>	CLEVELAND	<b>State (Map):</b>	Ohio
<b>State (OTTER):</b>		<b>Zip (Map):</b>	44102
<b>Zip (OTTER):</b>	44102	<b>County (Map):</b>	Cuyahoga
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (Map):</b>	41.466618
<b>Latitude (OTTER):</b>		<b>Longitude (Map):</b>	-81.729392
<b>Longitude (OTTER):</b>		<b>Fac ID (BUSTR2):</b>	18011172
<b>Fac No (BUSTR):</b>	18011172	<b>Fac Name (BUSTR2):</b>	AAROMET METALLICS
<b>Fac Name (BUSTR):</b>	AAROMET METALLICS	<b>Address (BUSTR2):</b>	3207 WEST 65TH ST
<b>Address (BUSTR):</b>	3207 WEST 65TH ST	<b>City (BUSTR2):</b>	CLEVELAND
<b>City (BUSTR):</b>	CLEVELAND	<b>Zip (BUSTR2):</b>	44102
<b>State (BUSTR):</b>	Ohio	<b>Latitude (BUSTR2):</b>	41.466749
<b>Zip (BUSTR):</b>	44102	<b>Longitude (BUSTR2):</b>	-81.730055
<b>County (BUSTR2):</b>	CUY		
<b>County (BUSTR):</b>	Cuyahoga		
<b>Latitude (BUSTR):</b>	41.46645		
<b>Longitude (BUSTR):</b>	-81.72995		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER) Search; Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks; BUSTR: All Facility Tanks; Map Services Directory: BUSTR - UST Locations (BUSTR/OGRIP)		

**Ohio Tank Tracking & Environmental Regulations (OTTER) Search**

<b>Old Incident ID:</b>		<b>Date Reported:</b>	4/9/2008
<b>Tank Status:</b>	No Tanks Available	<b>Own Business Name:</b>	AAROMET METALLICS
<b>Facility URL:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#14415">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#14415</a>		
<b>Release No URL:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34272">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34272</a>		

**Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks**

<b>Tank No:</b>	T00002	<b>Date Last Used:</b>	01/01/1900
<b>Status:</b>	REM - Removed	<b>UST Capacity:</b>	10000
<b>UST:</b>	UST	<b>Tank Content:</b>	Diesel
<b>Regulated:</b>	YES	<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Unknown	<b>UST Configurations:</b>	
<b>Installation Date:</b>	01/01/1900	<b>CAS No:</b>	68334-30-5
<b>Date Removed:</b>	03/06/2008	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>			
<b>Owner Address:</b>			
<b>Owner City:</b>			
<b>Owner State:</b>			
<b>Owner Zip:</b>			
<b>Construction:</b>	BM - Bare Metal		
<b>Construction Comments:</b>	BM - Bare Metal		
<b>Overfill Prevention:</b>			
<b>Overfill Prev Comments:</b>			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Pmry Release Detection:** AMO - Alternative Method (Other, explain)  
**2ndry Release Detection:**  
**Release Detect Comments:** RDTank: / RDLine:  
**Spill Prevention Manholes:** OTH - Other (Explain)  
**Spill Prev Manhole Comment:**  
**Corrosion Protections:**  
**Corrosion Protect Comments:**  
**Piping Configuration:**  
**Piping Config Comment:**  
**Piping Styles:** S - Suction  
**Piping Construction:** BM - Bare Metal  
**Piping Construct Comments:** BM - Bare Metal  
**Piping Corrosion Protection:** OTH - Other (explain)  
**Piping Corr Protect Comments:**  
**Piping Release Detection:** OTH - Other(explain)  
**Piping Rel Detect Comments:**  
**Comments:**

<b>Tank No:</b>	T00001	<b>Date Last Used:</b>	01/01/1900
<b>Status:</b>	REM - Removed	<b>UST Capacity:</b>	10000
<b>UST:</b>	UST	<b>Tank Content:</b>	Diesel
<b>Regulated:</b>	YES	<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Unknown	<b>UST Configurations:</b>	
<b>Installation Date:</b>	01/01/1900	<b>CAS No:</b>	68334-30-5
<b>Date Removed:</b>	03/06/2008	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	

**Owner Name:**  
**Owner Address:**  
**Owner City:**  
**Owner State:**  
**Owner Zip:**  
**Construction:** BM - Bare Metal  
**Construction Comments:** BM - Bare Metal  
**Overfill Prevention:**  
**Overfill Prev Comments:**  
**Pmry Release Detection:** AMO - Alternative Method (Other, explain)  
**2ndry Release Detection:**  
**Release Detect Comments:** RDTank: / RDLine:  
**Spill Prevention Manholes:** OTH - Other (Explain)  
**Spill Prev Manhole Comment:**  
**Corrosion Protections:**  
**Corrosion Protect Comments:**  
**Piping Configuration:**  
**Piping Config Comment:**  
**Piping Styles:** S - Suction  
**Piping Construction:** BM - Bare Metal  
**Piping Construct Comments:** BM - Bare Metal  
**Piping Corrosion Protection:** OTH - Other (explain)  
**Piping Corr Protect Comments:**  
**Piping Release Detection:** OTH - Other(explain)  
**Piping Rel Detect Comments:**  
**Comments:**

**BUSTR: All Facility Tanks**

<b>Tank No:</b>	T00001	<b>Address Out:</b>	3207 W 65th St
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	3/6/2008	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5509
<b>UST Capacity:</b>	10000	<b>Lat:</b>	41.46645
<b>Tank Content:</b>	Diesel	<b>Lon:</b>	-81.72995
<b>Label:</b>	18011172 AAROMET METALLICS	<b>Match:</b>	S80
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	MAF7
<b>State:</b>	Ohio	<b>LOC CONF:</b>	1

X:  
Y:

<b>Tank No:</b>	T00002	<b>Address Out:</b>	3207 W 65th St
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	REM - Removed				City Out:	Cleveland
Date Remove:	3/6/2008				State Out:	OH
Data Date:	9/21/2020				Zip Out:	44102-5509
UST Capacity:	10000				Lat:	41.46645
Tank Content:	Diesel				Lon:	-81.72995
Label:	18011172 AAROMET METALLICS				Match:	S80
Date Process:	2020/09/24				LOC QUAL:	MAF7
State:	Ohio				LOC CONF:	1
X:						
Y:						

**BUSTR - UST Locations (BUSTR/OGRIP)**

Object ID:	84290	Facility Name:	AAROMET METALLICS
Facility ID:	18011172	Facility Co:	
Tank ID:	T00001	Address:	3207 WEST 65TH ST
Facility Status:	Inactive	City:	CLEVELAND
Date Removed:	03/06/08	Zip:	44102
Inspection Date:		County:	CUY
Status:	REM	ODoT District:	12
Data Date:	2014-11-10 14:15:46.687	Latitude DD Begin:	41.466749
Capacity:	10000	Longitude DD Begin:	-81.730055
Content:	Diesel		

**BUSTR - UST Locations (BUSTR/OGRIP)**

Object ID:	84291	Facility Name:	AAROMET METALLICS
Facility ID:	18011172	Facility Co:	
Tank ID:	T00002	Address:	3207 WEST 65TH ST
Facility Status:	Inactive	City:	CLEVELAND
Date Removed:	03/06/08	Zip:	44102
Inspection Date:		County:	CUY
Status:	REM	ODoT District:	12
Data Date:	2014-11-10 14:15:46.687	Latitude DD Begin:	41.466749
Capacity:	10000	Longitude DD Begin:	-81.730055
Content:	Diesel		

14	1 of 2	NNW	0.20 / 1,077.66	696.13 / -3	HERB KAY CO., INC. 7300 CLARK AVE CLEVELAND OH 44102	LUST
Release No:	18001006 - N00001	Release No (Map):	18001006-N00001			
Facility Name:	HERB KAY CO., INC.	Fac Name (Map):	HERB KAY CO., INC.			
Facility Address:	7300 CLARK AVE	Fac Address (Map):	7300 CLARK AVE			
Facility City:	CLEVELAND	Fac City (Map):	CLEVELAND			
Facility State:	Ohio	Fac ZIP (Map):	44102			
Facility ZIP:	44102	County (Map):	CUY			
County:	Cuyahoga	Latitude (Map):	41.46992			
Facility Latitude:	41.469737	Longitude (Map):	-81.73632			
Facility Longitude:	-81.736484	Fac ID (BUSTR2):	18001006			
Release No (OTTER):	18001006-N00001	IncidntID (BUSTR2):	N00001			
Fac Name (OTTER):	HERB KAY CO., INC.	Fac Name (BUSTR2):	HERB KAY CO., INC.			
FacAddress (OTTER):	7300 CLARK AVE	Address (BUSTR2):	7300 CLARK AVE			
Fac City (OTTER):	CLEVELAND	City (BUSTR2):	CLEVELAND			
Fac State (OTTER):		ZIP (BUSTR2):	44102			
Fac ZIP (OTTER):	44102	County (BUSTR2):	CUY			
County (OTTER):	Cuyahoga	Latitude (BUSTR2):	41.46974			
Latitude (OTTER):		Longitude (BUSTR2):	-81.73648			
Longitude (OTTER):		Release No (BUSTR):	18001006-N00001			
Fac Name (BUSTR):	HERB KAY CO., INC.	Fac Addr (BUSTR):	7300 CLARK AVE			
Fac City (BUSTR):	CLEVELAND	Fac State (BUSTR):	OH			
Fac ZIP (BUSTR):	44102	Fac County (BUSTR):	Cuyahoga			
Latitude (BUSTR):	41.469737	Longitude (BUSTR):	-81.736484			
Facility (OTTER):	18001006 (HERB KAY CO., INC.)					
Data Source:	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory:					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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BUSTR - LUST Locations (BUSTR/OG RIP) (BUSTR2)

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	10/28/2020
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	06/16/2003
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	06/08/1992	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	182141500.0	<b>Date Reported:</b>	6/8/1992
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	HERB KAY CO., INC.
<b>Facility:</b>	18001006 (HERB KAY CO., INC.)		
<b>Facility Link:</b>	https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#22862		
<b>Release Link:</b>	https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=31585		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73632
<b>FR Status:</b>	DIS: a release is disproved	<b>Match:</b>	S80
<b>Label:</b>	18001006 - N00001 HERB KAY CO., INC.	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18001006 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	7300 Clark Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73632
<b>ZIP Out:</b>	44102-5030	<b>Y:</b>	41.46992
<b>Lat:</b>	41.46992		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	18264	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18001006	<b>Address:</b>	7300 CLARK AVE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>County:</b>	CUY
<b>Status:</b>	DIS: a release is disproved	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.46974
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.73648
<b>Current Fac Name:</b>	HERB KAY CO., INC.		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	17432	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	182141500.0	<b>LTF:</b>	1 SUS/CON from regulated UST
<b>Last Review Date:</b>	6/16/2003	<b>Rating:</b>	11
<b>Release Date:</b>	6/8/1992	<b>Facility Name:</b>	HERB KAY CO., INC.
<b>Last Update:</b>	Scott Sigler	<b>Facility Address:</b>	7300 CLARK AVE
<b>Last Update Date:</b>	10/28/2020	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	10/28/2020	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.469737
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.736484
<b>Rules:</b>	1992		

<a href="#">14</a>	2 of 2	NNW	0.20 / 1,077.66	696.13 / -3	HERB KAY CO., INC. 7300 CLARK AVE CLEVELAND OH 44102	UST
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<b>Facility (OTTER):</b>	<b>Facility No (Map):</b>	18001006
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>Fac No (OTTER):</b>	18001006				<b>Fac Name (Map):</b>	HERB KAY CO., INC.
<b>Fac Name (OTTER):</b>	HERB KAY CO., INC.				<b>Address (Map):</b>	7300 CLARK AVE
<b>Address (OTTER):</b>	7300 CLARK AVE				<b>City (Map):</b>	CLEVELAND
<b>City (OTTER):</b>	CLEVELAND				<b>State (Map):</b>	Ohio
<b>State (OTTER):</b>					<b>Zip (Map):</b>	44102
<b>Zip (OTTER):</b>	44102				<b>County (Map):</b>	Cuyahoga
<b>County (OTTER):</b>	Cuyahoga				<b>Latitude (Map):</b>	41.469737
<b>Latitude (OTTER):</b>					<b>Longitude (Map):</b>	-81.736484
<b>Longitude (OTTER):</b>					<b>Fac ID (BUSTR2):</b>	18001006
<b>Fac No (BUSTR):</b>	18001006				<b>Fac Name (BUSTR2):</b>	HERB KAY CO., INC.
<b>Fac Name (BUSTR):</b>	HERB KAY CO., INC.				<b>Address (BUSTR2):</b>	7300 CLARK AVE
<b>Address (BUSTR):</b>	7300 CLARK AVE				<b>City (BUSTR2):</b>	CLEVELAND
<b>City (BUSTR):</b>	CLEVELAND				<b>Zip (BUSTR2):</b>	44102
<b>State (BUSTR):</b>	Ohio				<b>Latitude (BUSTR2):</b>	41.46974
<b>Zip (BUSTR):</b>	44102				<b>Longitude (BUSTR2):</b>	-81.73648
<b>County (BUSTR2):</b>	CUY					
<b>County (BUSTR):</b>	Cuyahoga					
<b>Latitude (BUSTR):</b>	41.46992					
<b>Longitude (BUSTR):</b>	-81.73632					
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER) Search; Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks; BUSTR: All Facility Tanks; Map Services Directory: BUSTR - UST Locations (BUSTR/OGRIP)					

#### Ohio Tank Tracking & Environmental Regulations (OTTER) Search

<b>Old Incident ID:</b>	182141500.0	<b>Date Reported:</b>	6/8/1992
<b>Tank Status:</b>	No Tanks Available	<b>Own Business Name:</b>	HERB KAY CO., INC.
<b>Facility URL:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#22862">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#22862</a>		
<b>Release No URL:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=31585">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=31585</a>		

#### Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks

<b>Tank No:</b>	T00005	<b>Date Last Used:</b>	10/16/2001
<b>Status:</b>	REM - Removed	<b>UST Capacity:</b>	4000
<b>UST:</b>	UST	<b>Tank Content:</b>	Gasoline
<b>Regulated:</b>	YES	<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Commercial	<b>UST Configurations:</b>	
<b>Installation Date:</b>	06/01/1972	<b>CAS No:</b>	
<b>Date Removed:</b>	10/16/2001	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>			
<b>Owner Address:</b>			
<b>Owner City:</b>			
<b>Owner State:</b>			
<b>Owner Zip:</b>			
<b>Construction:</b>	BM - Bare Metal		
<b>Construction Comments:</b>	Steel		
<b>Overfill Prevention:</b>			
<b>Overfill Prev Comments:</b>	OverFill Spill: No		
<b>Prmry Release Detection:</b>	AMO - Alternative Method (Other, explain)		
<b>2ndry Release Detection:</b>			
<b>Release Detect Comments:</b>	RDTank: / RDLine:		
<b>Spill Prevention Manholes:</b>	NP - None Present		
<b>Spill Prev Manhole Comment:</b>	No		
<b>Corrosion Protections:</b>			
<b>Corrosion Protect Comments:</b>			
<b>Piping Configuration:</b>			
<b>Piping Config Comment:</b>			
<b>Piping Styles:</b>	P - Pressure		
<b>Piping Construction:</b>	BM - Bare Metal		
<b>Piping Construct Comments:</b>	Galvanized Steel		
<b>Piping Corrosion Protection:</b>	OTH - Other (explain)		
<b>Piping Corr Protect Comments:</b>			
<b>Piping Release Detection:</b>	OTH - Other(explain)		
<b>Piping Rel Detect Comments:</b>			
<b>Comments:</b>			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Tank No:</b>	T00003				<b>Date Last Used:</b>	10/16/2001
<b>Status:</b>	REM - Removed				<b>UST Capacity:</b>	4000
<b>UST:</b>	UST				<b>Tank Content:</b>	Gasoline
<b>Regulated:</b>	YES				<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Commercial				<b>UST Configurations:</b>	
<b>Installation Date:</b>	03/01/1964				<b>CAS No:</b>	
<b>Date Removed:</b>	10/16/2001				<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>					<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>						
<b>Owner Address:</b>						
<b>Owner City:</b>						
<b>Owner State:</b>						
<b>Owner Zip:</b>						
<b>Construction:</b>		BM - Bare Metal				
<b>Construction Comments:</b>		Steel				
<b>Overfill Prevention:</b>						
<b>Overfill Prev Comments:</b>		OverFill Spill: No				
<b>Prmry Release Detection:</b>		AMO - Alternative Method (Other, explain)				
<b>2ndry Release Detection:</b>						
<b>Release Detect Comments:</b>		RDTank: / RDLine:				
<b>Spill Prevention Manholes:</b>		NP - None Present				
<b>Spill Prev Manhole Comment:</b>		No				
<b>Corrosion Protections:</b>						
<b>Corrosion Protect Comments:</b>						
<b>Piping Configuration:</b>						
<b>Piping Config Comment:</b>						
<b>Piping Styles:</b>		P - Pressure				
<b>Piping Construction:</b>		BM - Bare Metal				
<b>Piping Construct Comments:</b>		Galvanized Steel				
<b>Piping Corrosion Protection:</b>		OTH - Other (explain)				
<b>Piping Corr Protect Comments:</b>						
<b>Piping Release Detection:</b>		OTH - Other(explain)				
<b>Piping Rel Detect Comments:</b>						
<b>Comments:</b>						
<b>Tank No:</b>	T00002				<b>Date Last Used:</b>	10/16/2001
<b>Status:</b>	REM - Removed				<b>UST Capacity:</b>	6000
<b>UST:</b>	UST				<b>Tank Content:</b>	Gasoline
<b>Regulated:</b>	YES				<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Commercial				<b>UST Configurations:</b>	
<b>Installation Date:</b>	03/01/1964				<b>CAS No:</b>	
<b>Date Removed:</b>	10/16/2001				<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>					<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>						
<b>Owner Address:</b>						
<b>Owner City:</b>						
<b>Owner State:</b>						
<b>Owner Zip:</b>						
<b>Construction:</b>		BM - Bare Metal				
<b>Construction Comments:</b>		Steel				
<b>Overfill Prevention:</b>						
<b>Overfill Prev Comments:</b>		OverFill Spill: No				
<b>Prmry Release Detection:</b>		AMO - Alternative Method (Other, explain)				
<b>2ndry Release Detection:</b>						
<b>Release Detect Comments:</b>		RDTank: / RDLine:				
<b>Spill Prevention Manholes:</b>		NP - None Present				
<b>Spill Prev Manhole Comment:</b>		No				
<b>Corrosion Protections:</b>						
<b>Corrosion Protect Comments:</b>						
<b>Piping Configuration:</b>						
<b>Piping Config Comment:</b>						
<b>Piping Styles:</b>		P - Pressure				
<b>Piping Construction:</b>		BM - Bare Metal				
<b>Piping Construct Comments:</b>		Galvanized Steel				
<b>Piping Corrosion Protection:</b>		OTH - Other (explain)				
<b>Piping Corr Protect Comments:</b>						
<b>Piping Release Detection:</b>		OTH - Other(explain)				
<b>Piping Rel Detect Comments:</b>						
<b>Comments:</b>						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>Tank No:</b>	T00004				<b>Date Last Used:</b>	10/16/2001
<b>Status:</b>	REM - Removed				<b>UST Capacity:</b>	4000
<b>UST:</b>	UST				<b>Tank Content:</b>	Gasoline
<b>Regulated:</b>	YES				<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Commercial				<b>UST Configurations:</b>	
<b>Installation Date:</b>	03/01/1964				<b>CAS No:</b>	
<b>Date Removed:</b>	10/16/2001				<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>					<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>						
<b>Owner Address:</b>						
<b>Owner City:</b>						
<b>Owner State:</b>						
<b>Owner Zip:</b>						
<b>Construction:</b>		BM - Bare Metal				
<b>Construction Comments:</b>		Steel				
<b>Overfill Prevention:</b>						
<b>Overfill Prev Comments:</b>		OverFill Spill: No				
<b>Prmry Release Detection:</b>		AMO - Alternative Method (Other, explain)				
<b>2ndry Release Detection:</b>						
<b>Release Detect Comments:</b>		RDTank: / RDLine:				
<b>Spill Prevention Manholes:</b>		NP - None Present				
<b>Spill Prev Manhole Comment:</b>		No				
<b>Corrosion Protections:</b>						
<b>Corrosion Protect Comments:</b>						
<b>Piping Configuration:</b>						
<b>Piping Config Comment:</b>						
<b>Piping Styles:</b>		P - Pressure				
<b>Piping Construction:</b>		BM - Bare Metal				
<b>Piping Construct Comments:</b>		Galvanized Steel				
<b>Piping Corrosion Protection:</b>		OTH - Other (explain)				
<b>Piping Corr Protect Comments:</b>						
<b>Piping Release Detection:</b>		OTH - Other(explain)				
<b>Piping Rel Detect Comments:</b>						
<b>Comments:</b>						

<b>Tank No:</b>	T00001				<b>Date Last Used:</b>	10/16/2001
<b>Status:</b>	REM - Removed				<b>UST Capacity:</b>	750
<b>UST:</b>	UST				<b>Tank Content:</b>	Used Oil
<b>Regulated:</b>	YES				<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Commercial				<b>UST Configurations:</b>	
<b>Installation Date:</b>	03/01/1964				<b>CAS No:</b>	
<b>Date Removed:</b>	10/16/2001				<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>					<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>						
<b>Owner Address:</b>						
<b>Owner City:</b>						
<b>Owner State:</b>						
<b>Owner Zip:</b>						
<b>Construction:</b>		BM - Bare Metal				
<b>Construction Comments:</b>		Steel				
<b>Overfill Prevention:</b>						
<b>Overfill Prev Comments:</b>		OverFill Spill: No				
<b>Prmry Release Detection:</b>		AMO - Alternative Method (Other, explain)				
<b>2ndry Release Detection:</b>						
<b>Release Detect Comments:</b>		RDTank: / RDLine:				
<b>Spill Prevention Manholes:</b>		NP - None Present				
<b>Spill Prev Manhole Comment:</b>		No				
<b>Corrosion Protections:</b>						
<b>Corrosion Protect Comments:</b>						
<b>Piping Configuration:</b>						
<b>Piping Config Comment:</b>						
<b>Piping Styles:</b>		NA - Not Applicable				
<b>Piping Construction:</b>		BM - Bare Metal				
<b>Piping Construct Comments:</b>		Galvanized Steel				
<b>Piping Corrosion Protection:</b>		OTH - Other (explain)				
<b>Piping Corr Protect Comments:</b>						
<b>Piping Release Detection:</b>		OTH - Other(explain)				
<b>Piping Rel Detect Comments:</b>						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Comments:

**BUSTR: All Facility Tanks**

<b>Tank No:</b>	T00001	<b>Address Out:</b>	7300 Clark Ave
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	10/16/2001	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5030
<b>UST Capacity:</b>	1000	<b>Lat:</b>	41.46992
<b>Tank Content:</b>	Used Oil	<b>Lon:</b>	-81.73632
<b>Label:</b>	18001006 HERB KAY CO., INC.	<b>Match:</b>	S80
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	MAF7
<b>State:</b>	Ohio	<b>LOC CONF:</b>	1
<b>X:</b>			
<b>Y:</b>			

<b>Tank No:</b>	T00004	<b>Address Out:</b>	7300 Clark Ave
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	10/16/2001	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5030
<b>UST Capacity:</b>	4000	<b>Lat:</b>	41.46992
<b>Tank Content:</b>	Used Oil	<b>Lon:</b>	-81.73632
<b>Label:</b>	18001006 HERB KAY CO., INC.	<b>Match:</b>	S80
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	MAF7
<b>State:</b>	Ohio	<b>LOC CONF:</b>	1
<b>X:</b>			
<b>Y:</b>			

<b>Tank No:</b>	T00002	<b>Address Out:</b>	7300 Clark Ave
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	10/16/2001	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5030
<b>UST Capacity:</b>	6000	<b>Lat:</b>	41.46992
<b>Tank Content:</b>	Used Oil	<b>Lon:</b>	-81.73632
<b>Label:</b>	18001006 HERB KAY CO., INC.	<b>Match:</b>	S80
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	MAF7
<b>State:</b>	Ohio	<b>LOC CONF:</b>	1
<b>X:</b>			
<b>Y:</b>			

<b>Tank No:</b>	T00005	<b>Address Out:</b>	7300 Clark Ave
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	10/16/2001	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5030
<b>UST Capacity:</b>	4000	<b>Lat:</b>	41.46992
<b>Tank Content:</b>	Unknown	<b>Lon:</b>	-81.73632
<b>Label:</b>	18001006 HERB KAY CO., INC.	<b>Match:</b>	S80
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	MAF7
<b>State:</b>	Ohio	<b>LOC CONF:</b>	1
<b>X:</b>			
<b>Y:</b>			

<b>Tank No:</b>	T00003	<b>Address Out:</b>	7300 Clark Ave
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	10/16/2001	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5030
<b>UST Capacity:</b>	4000	<b>Lat:</b>	41.46992
<b>Tank Content:</b>	Used Oil	<b>Lon:</b>	-81.73632
<b>Label:</b>	18001006 HERB KAY CO., INC.	<b>Match:</b>	S80
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	MAF7
<b>State:</b>	Ohio	<b>LOC CONF:</b>	1
<b>X:</b>			
<b>Y:</b>			

**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	42486	<b>Facility Name:</b>	HERB KAY CO., INC.
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Facility ID:</b>	18001006				<b>Facility Co:</b>	
<b>Tank ID:</b>	T00005				<b>Address:</b>	7300 CLARK AVE
<b>Facility Status:</b>	Inactive				<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	10/16/01				<b>Zip:</b>	44102
<b>Inspection Date:</b>					<b>County:</b>	CUY
<b>Status:</b>	REM				<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687				<b>Latitude DD Begin:</b>	41.46974
<b>Capacity:</b>	4000				<b>Longitude DD Begin:</b>	-81.73648
<b>Content:</b>	Unknown					

**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	42482				<b>Facility Name:</b>	HERB KAY CO., INC.
<b>Facility ID:</b>	18001006				<b>Facility Co:</b>	
<b>Tank ID:</b>	T00001				<b>Address:</b>	7300 CLARK AVE
<b>Facility Status:</b>	Inactive				<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	10/16/01				<b>Zip:</b>	44102
<b>Inspection Date:</b>					<b>County:</b>	CUY
<b>Status:</b>	REM				<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687				<b>Latitude DD Begin:</b>	41.46974
<b>Capacity:</b>	1000				<b>Longitude DD Begin:</b>	-81.73648
<b>Content:</b>	Used Oil					

**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	42484				<b>Facility Name:</b>	HERB KAY CO., INC.
<b>Facility ID:</b>	18001006				<b>Facility Co:</b>	
<b>Tank ID:</b>	T00003				<b>Address:</b>	7300 CLARK AVE
<b>Facility Status:</b>	Inactive				<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	10/16/01				<b>Zip:</b>	44102
<b>Inspection Date:</b>					<b>County:</b>	CUY
<b>Status:</b>	REM				<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687				<b>Latitude DD Begin:</b>	41.46974
<b>Capacity:</b>	4000				<b>Longitude DD Begin:</b>	-81.73648
<b>Content:</b>	Used Oil					

**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	42483				<b>Facility Name:</b>	HERB KAY CO., INC.
<b>Facility ID:</b>	18001006				<b>Facility Co:</b>	
<b>Tank ID:</b>	T00002				<b>Address:</b>	7300 CLARK AVE
<b>Facility Status:</b>	Inactive				<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	10/16/01				<b>Zip:</b>	44102
<b>Inspection Date:</b>					<b>County:</b>	CUY
<b>Status:</b>	REM				<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687				<b>Latitude DD Begin:</b>	41.46974
<b>Capacity:</b>	6000				<b>Longitude DD Begin:</b>	-81.73648
<b>Content:</b>	Used Oil					

**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	42485				<b>Facility Name:</b>	HERB KAY CO., INC.
<b>Facility ID:</b>	18001006				<b>Facility Co:</b>	
<b>Tank ID:</b>	T00004				<b>Address:</b>	7300 CLARK AVE
<b>Facility Status:</b>	Inactive				<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	10/16/01				<b>Zip:</b>	44102
<b>Inspection Date:</b>					<b>County:</b>	CUY
<b>Status:</b>	REM				<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687				<b>Latitude DD Begin:</b>	41.46974
<b>Capacity:</b>	4000				<b>Longitude DD Begin:</b>	-81.73648
<b>Content:</b>	Used Oil					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<a href="#">15</a>	1 of 4	ESE	0.21 / 1,133.54	698.63 / -1	DARLING INTERNATIONAL INC 3275 W 65TH ST CLEVELAND OH 44102	RCRA VSQG

**EPA Handler ID:** OHR000042374  
**Gen Status Universe:** VSG  
**Contact Name:** BRENT FRITSCH  
**Contact Address:** 3275 W 65TH ST , , CLEVELAND , OH, 44102 , US  
**Contact Phone No and Ext:** 216-651-9300  
**Contact Email:**  
**Contact Country:** US  
**County Name:** CUYAHOGA  
**EPA Region:** 05  
**Land Type:** Private  
**Receive Date:** 20000717  
**Location Latitude:** 41.464575  
**Location Longitude:** -81.730101

#### Violation/Evaluation Summary

**Note:** NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

#### Handler Summary

**Importer Activity:** No  
**Mixed Waste Generator:** No  
**Transporter Activity:** No  
**Transfer Facility:** No  
**Onsite Burner Exemption:** No  
**Furnace Exemption:** No  
**Underground Injection Activity:** No  
**Commercial TSD:** No  
**Used Oil Transporter:** No  
**Used Oil Transfer Facility:** No  
**Used Oil Processor:** No  
**Used Oil Refiner:** No  
**Used Oil Burner:** No  
**Used Oil Market Burner:** No  
**Used Oil Spec Marketer:** No

#### Hazardous Waste Handler Details

**Sequence No:** 1  
**Receive Date:** 20000717  
**Handler Name:** DARLING INTERNATIONAL INC  
**Federal Waste Generator Code:** 3  
**Generator Code Description:** Very Small Quantity Generator  
**Source Type:** Notification

#### Owner/Operator Details

<b>Owner/Operator Ind:</b>	Current Owner	<b>Street No:</b>	
<b>Type:</b>	Private	<b>Street 1:</b>	251 O'CONNOR RIDGE BLVD
<b>Name:</b>	DARLING INTERNATIONAL INC	<b>Street 2:</b>	
<b>Date Became Current:</b>		<b>City:</b>	IRVING
<b>Date Ended Current:</b>		<b>State:</b>	TX
<b>Phone:</b>	972-281-4490	<b>Country:</b>	
<b>Source Type:</b>	Notification	<b>Zip Code:</b>	75038

<a href="#">15</a>	2 of 4	ESE	0.21 / 1,133.54	698.63 / -1	DARLING INTERNATIONAL INC 3275 W 65TH ST CLEVELAND OH 44102	LUST
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>Release No:</b>	18008039 - N00001				<b>Release No (Map):</b>	18008039-N00001
<b>Facility Name:</b>	DARLING INTERNATIONAL INC				<b>Fac Name (Map):</b>	DARLING INTERNATIONAL INC
<b>Facility Address:</b>	3275 W 65TH ST				<b>Fac Address (Map):</b>	3275 W 65TH ST
<b>Facility City:</b>	CLEVELAND				<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio				<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102				<b>County (Map):</b>	
<b>County:</b>	Cuyahoga				<b>Latitude (Map):</b>	41.46458
<b>Facility Latitude:</b>	41.46508				<b>Longitude (Map):</b>	-81.72967
<b>Facility Longitude:</b>	-81.72938				<b>Fac ID (BUSTR2):</b>	18008039
<b>Release No (OTTER):</b>	18008039-N00001				<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	DARLING INTERNATIONAL INC				<b>Fac Name (BUSTR2):</b>	DARLING INTERNATIONAL INC
<b>FacAddress (OTTER):</b>	3275 W 65TH ST				<b>Address (BUSTR2):</b>	3275 W 65TH ST
<b>Fac City (OTTER):</b>	CLEVELAND				<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>					<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102				<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga				<b>Latitude (BUSTR2):</b>	41.46508
<b>Latitude (OTTER):</b>					<b>Longitude (BUSTR2):</b>	-81.72938
<b>Longitude (OTTER):</b>					<b>Release No (BUSTR):</b>	18008039-N00001
<b>Fac Name (BUSTR):</b>	DARLING INTERNATIONAL INC				<b>Fac Addr (BUSTR):</b>	3275 W 65TH ST
<b>Fac City (BUSTR):</b>	CLEVELAND				<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102				<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.46508				<b>Longitude (BUSTR):</b>	-81.72938
<b>Facility (OTTER):</b>	18008039 (DARLING INTERNATIONAL INC)					
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)					

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	1/11/1994
<b>LTF Status:</b>	6 Closure of regulated UST	<b>Review Date:</b>	01/11/1994
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	07/27/1993	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	183109600.0	<b>Date Reported:</b>	7/27/1993
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	DARLING INTERNATIONAL INC
<b>Facility:</b>	18008039 (DARLING INTERNATIONAL INC)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#23587">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#23587</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34626">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34626</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.72967
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18008039 - N00001 DARLING INTERNATIONAL INC	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18008039 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	3275 W 65th St	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.72967
<b>ZIP Out:</b>	44102-5509	<b>Y:</b>	41.46458
<b>Lat:</b>	41.46458		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	21315	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18008039	<b>Address:</b>	3275 W 65TH ST
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	6 Closure of regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.46508
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.72938
<b>Current Fac Name:</b>	DARLING INTERNATIONAL INC		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	10338	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	183109600.0	<b>LTF:</b>	6 Closure of regulated UST
<b>Last Review Date:</b>	1/11/1994	<b>Rating:</b>	
<b>Release Date:</b>	7/27/1993	<b>Facility Name:</b>	DARLING INTERNATIONAL INC
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	3275 W 65TH ST
<b>Last Update Date:</b>	2/17/2021	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	1/11/1994	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.46508
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.72938
<b>Rules:</b>	1992		

<b>15</b>	<b>3 of 4</b>	<b>ESE</b>	<b>0.21 / 1,133.54</b>	<b>698.63 / -1</b>	<b>DARLING INTERNATIONAL INC 3275 W 65TH ST CLEVELAND OH 44102</b>	<b>LUST</b>
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<b>Release No:</b>	18008039 - N00002	<b>Release No (Map):</b>	18008039-N00002
<b>Facility Name:</b>	DARLING INTERNATIONAL INC	<b>Fac Name (Map):</b>	DARLING INTERNATIONAL INC
<b>Facility Address:</b>	3275 W 65TH ST	<b>Fac Address (Map):</b>	3275 W 65TH ST
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.46458
<b>Facility Latitude:</b>	41.46508	<b>Longitude (Map):</b>	-81.72967
<b>Facility Longitude:</b>	-81.72938	<b>Fac ID (BUSTR2):</b>	18008039
<b>Release No (OTTER):</b>	18008039-N00002	<b>IncidntID (BUSTR2):</b>	N00002
<b>Fac Name (OTTER):</b>	DARLING INTERNATIONAL INC	<b>Fac Name (BUSTR2):</b>	DARLING INTERNATIONAL INC
<b>FacAddress (OTTER):</b>	3275 W 65TH ST	<b>Address (BUSTR2):</b>	3275 W 65TH ST
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.46508
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.72938
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18008039-N00002
<b>Fac Name (BUSTR):</b>	DARLING INTERNATIONAL INC	<b>Fac Addr (BUSTR):</b>	3275 W 65TH ST
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.46508	<b>Longitude (BUSTR):</b>	-81.72938
<b>Facility (OTTER):</b>	18008039 (DARLING INTERNATIONAL INC)		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)		

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	7/12/2011
<b>LTF Status:</b>	6 Closure of regulated UST	<b>Review Date:</b>	07/12/2011
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	09/16/2010	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>		<b>Date Reported:</b>	9/16/2010
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	DARLING INTERNATIONAL INC
<b>Facility:</b>	18008039 (DARLING INTERNATIONAL INC)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#23587">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#23587</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34627">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34627</a>		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.72967
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18008039 - N00002 DARLING INTERNATIONAL INC	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18008039 - N00002	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	3275 W 65th St	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.72967
<b>ZIP Out:</b>	44102-5509	<b>Y:</b>	41.46458
<b>Lat:</b>	41.46458		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	21316	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18008039	<b>Address:</b>	3275 W 65TH ST
<b>Incident ID:</b>	N00002	<b>City:</b>	CLEVELAND
<b>LTF:</b>	6 Closure of regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.46508
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.72938
<b>Current Fac Name:</b>	DARLING INTERNATIONAL INC		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	10339	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>		<b>LTF:</b>	6 Closure of regulated UST
<b>Last Review Date:</b>	7/12/2011	<b>Rating:</b>	14
<b>Release Date:</b>	9/16/2010	<b>Facility Name:</b>	DARLING INTERNATIONAL INC
<b>Last Update:</b>		<b>Facility Address:</b>	3275 W 65TH ST
<b>Last Update Date:</b>	4/28/2012	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	7/12/2011	<b>County:</b>	Cuyahoga
<b>Substatus:</b>		<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.46508
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.72938
<b>Rules:</b>	2005		

<a href="#">15</a>	4 of 4	ESE	0.21 / 1,133.54	698.63 / -1	DARLING INTERNATIONAL INC 3275 W 65TH ST CLEVELAND OH 44102	UST
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<b>Facility (OTTER):</b>		<b>Facility No (Map):</b>	18008039
<b>Fac No (OTTER):</b>	18008039	<b>Fac Name (Map):</b>	DARLING INTERNATIONAL INC
<b>Fac Name (OTTER):</b>	DARLING INTERNATIONAL INC	<b>Address (Map):</b>	3275 W 65TH ST
<b>Address (OTTER):</b>	3275 W 65TH ST	<b>City (Map):</b>	CLEVELAND
<b>City (OTTER):</b>	CLEVELAND	<b>State (Map):</b>	Ohio
<b>State (OTTER):</b>		<b>Zip (Map):</b>	44102
<b>Zip (OTTER):</b>	44102	<b>County (Map):</b>	Cuyahoga
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (Map):</b>	41.46508
<b>Latitude (OTTER):</b>		<b>Longitude (Map):</b>	-81.72938
<b>Longitude (OTTER):</b>		<b>Fac ID (BUSTR2):</b>	18008039
<b>Fac No (BUSTR):</b>	18008039	<b>Fac Name (BUSTR2):</b>	DARLING INTERNATIONAL INC
<b>Fac Name (BUSTR):</b>	DARLING INTERNATIONAL INC	<b>Address (BUSTR2):</b>	3275 W 65TH ST
<b>Address (BUSTR):</b>	3275 W 65TH ST	<b>City (BUSTR2):</b>	CLEVELAND
<b>City (BUSTR):</b>	CLEVELAND	<b>Zip (BUSTR2):</b>	44102
<b>State (BUSTR):</b>	Ohio	<b>Latitude (BUSTR2):</b>	41.46508
<b>Zip (BUSTR):</b>	44102	<b>Longitude (BUSTR2):</b>	-81.72938
<b>County (BUSTR2):</b>	CUY		
<b>County (BUSTR):</b>	Cuyahoga		
<b>Latitude (BUSTR):</b>	41.46458		
<b>Longitude (BUSTR):</b>	-81.72967		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Data Source:** Ohio Tank Tracking & Environmental Regulations (OTTER) Search; Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks; BUSTR: All Facility Tanks; Map Services Directory: BUSTR - UST Locations (BUSTR/OGRIP)

**Ohio Tank Tracking & Environmental Regulations (OTTER) Search**

<b>Old Incident ID:</b>		<b>Date Reported:</b>	9/16/2010
<b>Tank Status:</b>	No Tanks Available	<b>Own Business Name:</b>	DARLING INTERNATIONAL INC
<b>Facility URL:</b>	https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#23587		
<b>Release No URL:</b>	https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34627		

<b>Old Incident ID:</b>	183109600.0	<b>Date Reported:</b>	7/27/1993
<b>Tank Status:</b>	No Tanks Available	<b>Own Business Name:</b>	DARLING INTERNATIONAL INC
<b>Facility URL:</b>	https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#23587		
<b>Release No URL:</b>	https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34626		

**Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks**

<b>Tank No:</b>	T00001	<b>Date Last Used:</b>	01/01/1993
<b>Status:</b>	REM - Removed	<b>UST Capacity:</b>	6000
<b>UST:</b>	UST	<b>Tank Content:</b>	Diesel
<b>Regulated:</b>	YES	<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Commercial	<b>UST Configurations:</b>	
<b>Installation Date:</b>	05/01/1978	<b>CAS No:</b>	68334-30-5
<b>Date Removed:</b>	05/13/1993	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	

**Owner Name:**  
**Owner Address:**  
**Owner City:**  
**Owner State:**  
**Owner Zip:**  
**Construction:** BM - Bare Metal  
**Construction Comments:** Steel  
**Overfill Prevention:**  
**Overfill Prev Comments:** OverFill Spill: No  
**Prmry Release Detection:** AMO - Alternative Method (Other, explain)  
**2ndry Release Detection:**  
**Release Detect Comments:** RDTank: / RDLine:  
**Spill Prevention Manholes:** NP - None Present  
**Spill Prev Manhole Comment:** No  
**Corrosion Protections:**  
**Corrosion Protect Comments:**  
**Piping Configuration:**  
**Piping Config Comment:**  
**Piping Styles:** S - Suction  
**Piping Construction:** BM - Bare Metal  
**Piping Construct Comments:** Bare Steel  
**Piping Corrosion Protection:** OTH - Other (explain)  
**Piping Corr Protect Comments:**  
**Piping Release Detection:** OTH - Other(explain)  
**Piping Rel Detect Comments:**  
**Comments:**

<b>Tank No:</b>	T00003	<b>Date Last Used:</b>	12/01/1993
<b>Status:</b>	REM - Removed	<b>UST Capacity:</b>	10000
<b>UST:</b>	UST	<b>Tank Content:</b>	Diesel
<b>Regulated:</b>	YES	<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Commercial	<b>UST Configurations:</b>	
<b>Installation Date:</b>	09/01/1992	<b>CAS No:</b>	68334-30-5
<b>Date Removed:</b>	12/01/1993	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>			
<b>Owner Address:</b>			
<b>Owner City:</b>			
<b>Owner State:</b>			
<b>Owner Zip:</b>			
<b>Construction:</b>	FRP-Fiberglass Reinforced Plastic		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Construction Comments:</b>		Fiberglass Reinforced Plastic;Double Walled (Int				
<b>Overfill Prevention:</b>						
<b>Overfill Prev Comments:</b>		OverFill Spill: No				
<b>Prmry Release Detection:</b>		AMO - Alternative Method (Other, explain)				
<b>2ndry Release Detection:</b>						
<b>Release Detect Comments:</b>		RDTank: / RDLine:				
<b>Spill Prevention Manholes:</b>		NP - None Present				
<b>Spill Prev Manhole Comment:</b>		No				
<b>Corrosion Protections:</b>						
<b>Corrosion Protect Comments:</b>						
<b>Piping Configuration:</b>						
<b>Piping Config Comment:</b>						
<b>Piping Styles:</b>		S - Suction				
<b>Piping Construction:</b>		BM - Bare Metal				
<b>Piping Construct Comments:</b>		Galvanized Steel;Fiberglass Rein				
<b>Piping Corrosion Protection:</b>		OTH - Other (explain)				
<b>Piping Corr Protect Comments:</b>						
<b>Piping Release Detection:</b>		OTH - Other(explain)				
<b>Piping Rel Detect Comments:</b>						
<b>Comments:</b>						
<b>Tank No:</b>	T00004				<b>Date Last Used:</b>	06/22/2010
<b>Status:</b>	REM - Removed				<b>UST Capacity:</b>	10000
<b>UST:</b>	UST				<b>Tank Content:</b>	Diesel
<b>Regulated:</b>	YES				<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Commercial				<b>UST Configurations:</b>	
<b>Installation Date:</b>	01/01/1992				<b>CAS No:</b>	68334-30-5
<b>Date Removed:</b>	06/22/2010				<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>					<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>						
<b>Owner Address:</b>						
<b>Owner City:</b>						
<b>Owner State:</b>						
<b>Owner Zip:</b>						
<b>Construction:</b>	FRP-Fiberglass Reinforced Plastic					
<b>Construction Comments:</b>	DW - FRP - Fiberglass					
<b>Overfill Prevention:</b>						
<b>Overfill Prev Comments:</b>	OverFill Spill: Yes					
<b>Prmry Release Detection:</b>	ATG - Automatic Tank Gauging					
<b>2ndry Release Detection:</b>						
<b>Release Detect Comments:</b>	RDTank: Automatic Tank Gauging / RDLine:					
<b>Spill Prevention Manholes:</b>	SB - Spill Containment Manhole (bucket)					
<b>Spill Prev Manhole Comment:</b>	Yes					
<b>Corrosion Protections:</b>	NR - None Required by Rule					
<b>Corrosion Protect Comments:</b>						
<b>Piping Configuration:</b>						
<b>Piping Config Comment:</b>						
<b>Piping Styles:</b>	S - Suction					
<b>Piping Construction:</b>	FRP - Fiberglass Reinforced Plastic					
<b>Piping Construct Comments:</b>	DW FRP - Fiberglass					
<b>Piping Corrosion Protection:</b>	NR - None required by rule					
<b>Piping Corr Protect Comments:</b>						
<b>Piping Release Detection:</b>	OTH - Other(explain)					
<b>Piping Rel Detect Comments:</b>	Electronic Line Leak Detector;No Monitoring Suction/Gravity System					
<b>Comments:</b>						
<b>Tank No:</b>	T00002				<b>Date Last Used:</b>	01/01/1993
<b>Status:</b>	REM - Removed				<b>UST Capacity:</b>	10000
<b>UST:</b>	UST				<b>Tank Content:</b>	Diesel
<b>Regulated:</b>	YES				<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Commercial				<b>UST Configurations:</b>	
<b>Installation Date:</b>	07/01/1974				<b>CAS No:</b>	68334-30-5
<b>Date Removed:</b>	05/13/1993				<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>					<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>						
<b>Owner Address:</b>						
<b>Owner City:</b>						
<b>Owner State:</b>						
<b>Owner Zip:</b>						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Construction:</b>		BM - Bare Metal				
<b>Construction Comments:</b>		Steel				
<b>Overfill Prevention:</b>						
<b>Overfill Prev Comments:</b>		OverFill Spill: No				
<b>Prmry Release Detection:</b>		AMO - Alternative Method (Other, explain)				
<b>2ndry Release Detection:</b>						
<b>Release Detect Comments:</b>		RDTank: / RDLine:				
<b>Spill Prevention Manholes:</b>		NP - None Present				
<b>Spill Prev Manhole Comment:</b>		No				
<b>Corrosion Protections:</b>						
<b>Corrosion Protect Comments:</b>						
<b>Piping Configuration:</b>						
<b>Piping Config Comment:</b>						
<b>Piping Styles:</b>		S - Suction				
<b>Piping Construction:</b>		BM - Bare Metal				
<b>Piping Construct Comments:</b>		Bare Steel				
<b>Piping Corrosion Protection:</b>		OTH - Other (explain)				
<b>Piping Corr Protect Comments:</b>						
<b>Piping Release Detection:</b>		OTH - Other(explain)				
<b>Piping Rel Detect Comments:</b>						
<b>Comments:</b>						

**BUSTR: All Facility Tanks**

<b>Tank No:</b>	T00002	<b>Address Out:</b>	3275 W 65th St
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	5/13/1993	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5509
<b>UST Capacity:</b>	10000	<b>Lat:</b>	41.46458
<b>Tank Content:</b>	Diesel	<b>Lon:</b>	-81.72967
<b>Label:</b>	18008039 DARLING INTERNATIONAL INC	<b>Match:</b>	S80
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	MAF7
<b>State:</b>	Ohio	<b>LOC CONF:</b>	1
<b>X:</b>			
<b>Y:</b>			

<b>Tank No:</b>	T00003	<b>Address Out:</b>	3275 W 65th St
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	12/1/1993	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5509
<b>UST Capacity:</b>	10000	<b>Lat:</b>	41.46458
<b>Tank Content:</b>	Diesel	<b>Lon:</b>	-81.72967
<b>Label:</b>	18008039 DARLING INTERNATIONAL INC	<b>Match:</b>	S80
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	MAF7
<b>State:</b>	Ohio	<b>LOC CONF:</b>	1
<b>X:</b>			
<b>Y:</b>			

<b>Tank No:</b>	T00004	<b>Address Out:</b>	3275 W 65th St
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	6/22/2010	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5509
<b>UST Capacity:</b>	10000	<b>Lat:</b>	41.46458
<b>Tank Content:</b>	Diesel	<b>Lon:</b>	-81.72967
<b>Label:</b>	18008039 DARLING INTERNATIONAL INC	<b>Match:</b>	S80
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	MAF7
<b>State:</b>	Ohio	<b>LOC CONF:</b>	1
<b>X:</b>			
<b>Y:</b>			

<b>Tank No:</b>	T00001	<b>Address Out:</b>	3275 W 65th St
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	5/13/1993	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5509
<b>UST Capacity:</b>	6000	<b>Lat:</b>	41.46458
<b>Tank Content:</b>	Diesel	<b>Lon:</b>	-81.72967
<b>Label:</b>	18008039 DARLING INTERNATIONAL INC	<b>Match:</b>	S80
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	MAF7

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
State:	Ohio				LOC CONF:	1
X:						
Y:						

**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	46338	<b>Facility Name:</b>	DARLING INTERNATIONAL INC
<b>Facility ID:</b>	18008039	<b>Facility Co:</b>	
<b>Tank ID:</b>	T00002	<b>Address:</b>	3275 W 65TH ST
<b>Facility Status:</b>	Inactive	<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	05/13/93	<b>Zip:</b>	44102
<b>Inspection Date:</b>		<b>County:</b>	CUY
<b>Status:</b>	REM	<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687	<b>Latitude DD Begin:</b>	41.46508
<b>Capacity:</b>	10000	<b>Longitude DD Begin:</b>	-81.72938
<b>Content:</b>	Diesel		

**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	46339	<b>Facility Name:</b>	DARLING INTERNATIONAL INC
<b>Facility ID:</b>	18008039	<b>Facility Co:</b>	
<b>Tank ID:</b>	T00003	<b>Address:</b>	3275 W 65TH ST
<b>Facility Status:</b>	Inactive	<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	12/01/93	<b>Zip:</b>	44102
<b>Inspection Date:</b>		<b>County:</b>	CUY
<b>Status:</b>	REM	<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687	<b>Latitude DD Begin:</b>	41.46508
<b>Capacity:</b>	10000	<b>Longitude DD Begin:</b>	-81.72938
<b>Content:</b>	Diesel		

**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	46337	<b>Facility Name:</b>	DARLING INTERNATIONAL INC
<b>Facility ID:</b>	18008039	<b>Facility Co:</b>	
<b>Tank ID:</b>	T00001	<b>Address:</b>	3275 W 65TH ST
<b>Facility Status:</b>	Inactive	<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	05/13/93	<b>Zip:</b>	44102
<b>Inspection Date:</b>		<b>County:</b>	CUY
<b>Status:</b>	REM	<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687	<b>Latitude DD Begin:</b>	41.46508
<b>Capacity:</b>	6000	<b>Longitude DD Begin:</b>	-81.72938
<b>Content:</b>	Diesel		

**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	46340	<b>Facility Name:</b>	DARLING INTERNATIONAL INC
<b>Facility ID:</b>	18008039	<b>Facility Co:</b>	
<b>Tank ID:</b>	T00004	<b>Address:</b>	3275 W 65TH ST
<b>Facility Status:</b>	Inactive	<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	06/22/10	<b>Zip:</b>	44102
<b>Inspection Date:</b>		<b>County:</b>	CUY
<b>Status:</b>	REM	<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687	<b>Latitude DD Begin:</b>	41.46508
<b>Capacity:</b>	10000	<b>Longitude DD Begin:</b>	-81.72938
<b>Content:</b>	Diesel		

<b>16</b>	<b>1 of 2</b>	<b>NE</b>	<b>0.21 / 1,133.84</b>	<b>688.73 / -11</b>	<b>ARCHITECTURAL PRODUCTS 6605 CLARK AVE CLEVELAND OH 44102</b>	<b>LUST</b>
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<b>Release No:</b>	18008346 - N00001	<b>Release No (Map):</b>	18008346-N00001
<b>Facility Name:</b>	ARCHITECTURAL PRODUCTS	<b>Fac Name (Map):</b>	ARCHITECTURAL PRODUCTS
<b>Facility Address:</b>	6605 CLARK AVE	<b>Fac Address (Map):</b>	6605 CLARK AVE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>Facility City:</b>	CLEVELAND				<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio				<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102				<b>County (Map):</b>	
<b>County:</b>	Cuyahoga				<b>Latitude (Map):</b>	41.46935
<b>Facility Latitude:</b>	41.469463				<b>Longitude (Map):</b>	-81.73111
<b>Facility Longitude:</b>	-81.730332				<b>Fac ID (BUSTR2):</b>	18008346
<b>Release No (OTTER):</b>	18008346-N00001				<b>IncidentID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	ARCHITECTURAL PRODUCTS				<b>Fac Name (BUSTR2):</b>	ARCHITECTURAL PRODUCTS
<b>FacAddress (OTTER):</b>	6605 CLARK AVE				<b>Address (BUSTR2):</b>	6605 CLARK AVE
<b>Fac City (OTTER):</b>	CLEVELAND				<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>					<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102				<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga				<b>Latitude (BUSTR2):</b>	41.46946
<b>Latitude (OTTER):</b>					<b>Longitude (BUSTR2):</b>	-81.73033
<b>Longitude (OTTER):</b>					<b>Release No (BUSTR):</b>	18008346-N00001
<b>Fac Name (BUSTR):</b>	ARCHITECTURAL PRODUCTS				<b>Fac Addr (BUSTR):</b>	6605 CLARK AVE
<b>Fac City (BUSTR):</b>	CLEVELAND				<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102				<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.469463				<b>Longitude (BUSTR):</b>	-81.730332
<b>Facility (OTTER):</b>	18008346 (ARCHITECTURAL PRODUCTS)					
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGRI) (BUSTR2)					

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	9/16/1999
<b>LTF Status:</b>	6 Closure of regulated UST	<b>Review Date:</b>	09/16/1999
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	08/22/1999	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	189065800.0	<b>Date Reported:</b>	8/22/1999
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	ARCHITECTURAL PRODUCTS
<b>Facility:</b>	18008346 (ARCHITECTURAL PRODUCTS)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#9185">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#9185</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34662">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34662</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73111
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18008346 - N00001 ARCHITECTURAL PRODUCTS	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18008346 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	6605 Clark Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73111
<b>ZIP Out:</b>	44102-5330	<b>Y:</b>	41.46935
<b>Lat:</b>	41.46935		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	21347	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18008346	<b>Address:</b>	6605 CLARK AVE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	6 Closure of regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.46946
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.73033
<b>Current Fac Name:</b>	ARCHITECTURAL PRODUCTS		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**All Active-Inactive BUSTR Sites**

<b>S No:</b>	2179	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	189065800.0	<b>LTF:</b>	6 Closure of regulated UST
<b>Last Review Date:</b>	9/16/1999	<b>Rating:</b>	
<b>Release Date:</b>	8/22/1999	<b>Facility Name:</b>	ARCHITECTURAL PRODUCTS
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	6605 CLARK AVE
<b>Last Update Date:</b>	2/18/2021	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	9/16/1999	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.469463
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.730332
<b>Rules:</b>	1992		

<u>16</u>	2 of 2	NE	0.21 / 1,133.84	688.73 / -11	ARCHITECTURAL PRODUCTS 6605 CLARK AVE CLEVELAND OH 44102	UST
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<b>Facility (OTTER):</b>		<b>Facility No (Map):</b>	18008346
<b>Fac No (OTTER):</b>	18008346	<b>Fac Name (Map):</b>	ARCHITECTURAL PRODUCTS
<b>Fac Name (OTTER):</b>	ARCHITECTURAL PRODUCTS	<b>Address (Map):</b>	6605 CLARK AVE
<b>Address (OTTER):</b>	6605 CLARK AVE	<b>City (Map):</b>	CLEVELAND
<b>City (OTTER):</b>	CLEVELAND	<b>State (Map):</b>	Ohio
<b>State (OTTER):</b>		<b>Zip (Map):</b>	44102
<b>Zip (OTTER):</b>	44102	<b>County (Map):</b>	Cuyahoga
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (Map):</b>	41.469463
<b>Latitude (OTTER):</b>		<b>Longitude (Map):</b>	-81.730332
<b>Longitude (OTTER):</b>		<b>Fac ID (BUSTR2):</b>	18008346
<b>Fac No (BUSTR):</b>	18008346	<b>Fac Name (BUSTR2):</b>	ARCHITECTURAL PRODUCTS
<b>Fac Name (BUSTR):</b>	ARCHITECTURAL PRODUCTS	<b>Address (BUSTR2):</b>	6605 CLARK AVE
<b>Address (BUSTR):</b>	6605 CLARK AVE	<b>City (BUSTR2):</b>	CLEVELAND
<b>City (BUSTR):</b>	CLEVELAND	<b>Zip (BUSTR2):</b>	44102
<b>State (BUSTR):</b>	Ohio	<b>Latitude (BUSTR2):</b>	41.46946
<b>Zip (BUSTR):</b>	44102	<b>Longitude (BUSTR2):</b>	-81.73033
<b>County (BUSTR2):</b>	CUY		
<b>County (BUSTR):</b>	Cuyahoga		
<b>Latitude (BUSTR):</b>	41.46935		
<b>Longitude (BUSTR):</b>	-81.73111		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER) Search; Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks; BUSTR: All Facility Tanks; Map Services Directory: BUSTR - UST Locations (BUSTR/OGRIP)		

**Ohio Tank Tracking & Environmental Regulations (OTTER) Search**

<b>Old Incident ID:</b>	189065800.0	<b>Date Reported:</b>	8/22/1999
<b>Tank Status:</b>	No Tanks Available	<b>Own Business Name:</b>	ARCHITECTURAL PRODUCTS
<b>Facility URL:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#9185">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#9185</a>		
<b>Release No URL:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34662">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34662</a>		

**Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks**

<b>Tank No:</b>	T00002	<b>Date Last Used:</b>	07/21/1999
<b>Status:</b>	REM - Removed	<b>UST Capacity:</b>	6000
<b>UST:</b>	UST	<b>Tank Content:</b>	Gasoline
<b>Regulated:</b>	YES	<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Commercial	<b>UST Configurations:</b>	
<b>Installation Date:</b>		<b>CAS No:</b>	8006-61-9
<b>Date Removed:</b>	07/21/1999	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>			
<b>Owner Address:</b>			
<b>Owner City:</b>			
<b>Owner State:</b>			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Owner Zip:**  
**Construction:**  
**Construction Comments:**  
**Overfill Prevention:**  
**Overfill Prev Comments:** OverFill Spill: No  
**Prmry Release Detection:** AMO - Alternative Method (Other, explain)  
**2ndry Release Detection:**  
**Release Detect Comments:** RDTank: / RDLine:  
**Spill Prevention Manholes:** NP - None Present  
**Spill Prev Manhole Comment:** No  
**Corrosion Protections:**  
**Corrosion Protect Comments:**  
**Piping Configuration:**  
**Piping Config Comment:**  
**Piping Styles:** NA - Not Applicable  
**Piping Construction:** OTH - Other (explain)  
**Piping Construct Comments:**  
**Piping Corrosion Protection:** OTH - Other (explain)  
**Piping Corr Protect Comments:**  
**Piping Release Detection:** OTH - Other(explain)  
**Piping Rel Detect Comments:**  
**Comments:**

<b>Tank No:</b>	T00001	<b>Date Last Used:</b>	07/21/1999
<b>Status:</b>	REM - Removed	<b>UST Capacity:</b>	2000
<b>UST:</b>	UST	<b>Tank Content:</b>	Gasoline
<b>Regulated:</b>	YES	<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Commercial	<b>UST Configurations:</b>	
<b>Installation Date:</b>		<b>CAS No:</b>	8006-61-9
<b>Date Removed:</b>	07/21/1999	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	

**Owner Name:**  
**Owner Address:**  
**Owner City:**  
**Owner State:**  
**Owner Zip:**  
**Construction:**  
**Construction Comments:**  
**Overfill Prevention:**  
**Overfill Prev Comments:** OverFill Spill: No  
**Prmry Release Detection:** AMO - Alternative Method (Other, explain)  
**2ndry Release Detection:**  
**Release Detect Comments:** RDTank: / RDLine:  
**Spill Prevention Manholes:** NP - None Present  
**Spill Prev Manhole Comment:** No  
**Corrosion Protections:**  
**Corrosion Protect Comments:**  
**Piping Configuration:**  
**Piping Config Comment:**  
**Piping Styles:** NA - Not Applicable  
**Piping Construction:** OTH - Other (explain)  
**Piping Construct Comments:**  
**Piping Corrosion Protection:** OTH - Other (explain)  
**Piping Corr Protect Comments:**  
**Piping Release Detection:** OTH - Other(explain)  
**Piping Rel Detect Comments:**  
**Comments:**

**BUSTR: All Facility Tanks**

<b>Tank No:</b>	T00002	<b>Address Out:</b>	6605 Clark Ave
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	7/21/1999	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5330
<b>UST Capacity:</b>	6000	<b>Lat:</b>	41.46935
<b>Tank Content:</b>	Gasoline	<b>Lon:</b>	-81.73111
<b>Label:</b>	18008346 ARCHITECTURAL PRODUCTS	<b>Match:</b>	S80
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	MAF7

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
State:	Ohio				LOC CONF:	1
X:						
Y:						
Tank No:	T00001				Address Out:	6605 Clark Ave
Status:	REM - Removed				City Out:	Cleveland
Date Remove:	7/21/1999				State Out:	OH
Data Date:	9/21/2020				Zip Out:	44102-5330
UST Capacity:	2000				Lat:	41.46935
Tank Content:	Gasoline				Lon:	-81.73111
Label:	18008346 ARCHITECTURAL PRODUCTS				Match:	S80
Date Process:	2020/09/24				LOC QUAL:	MAF7
State:	Ohio				LOC CONF:	1
X:						
Y:						

**BUSTR - UST Locations (BUSTR/OGRIP)**

Object ID:	46415	Facility Name:	ARCHITECTURAL PRODUCTS
Facility ID:	18008346	Facility Co:	
Tank ID:	T00001	Address:	6605 CLARK AVE
Facility Status:	Inactive	City:	CLEVELAND
Date Removed:	07/21/99	Zip:	44102
Inspection Date:		County:	CUY
Status:	REM	ODoT District:	12
Data Date:	2014-11-10 14:15:46.687	Latitude DD Begin:	41.46946
Capacity:	2000	Longitude DD Begin:	-81.73033
Content:	Gasoline		

**BUSTR - UST Locations (BUSTR/OGRIP)**

Object ID:	46416	Facility Name:	ARCHITECTURAL PRODUCTS
Facility ID:	18008346	Facility Co:	
Tank ID:	T00002	Address:	6605 CLARK AVE
Facility Status:	Inactive	City:	CLEVELAND
Date Removed:	07/21/99	Zip:	44102
Inspection Date:		County:	CUY
Status:	REM	ODoT District:	12
Data Date:	2014-11-10 14:15:46.687	Latitude DD Begin:	41.46946
Capacity:	6000	Longitude DD Begin:	-81.73033
Content:	Gasoline		

<a href="#">17</a>	1 of 1	NE	0.23 / 1,196.57	690.87 / -9	Pilsner Square 6605 Clark Ave. 6605 Clark Ave. CLEVELAND OH 44102	FED BROWNFIELDS
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Property ID:	250537	BF Property (Map):	250537
Lat Measure:	41.46915201631802	Latitude (Map):	41.4691520163
Long Measure:	-81.73121500840932	Longitude (Map):	-81.7312150084
Property Name:	Pilsner Square 6605 Clark		
Address:	6605 Clark Ave.		
City:	CLEVELAND		
State Code:	OH		
Zip Code:	44102		
Primary Name (Map):	PILSNER SQUARE 6605 CLARK		
Location Address (Map):	6605 CLARK AVE.		
City Name (Map):	CLEVELAND		
County Name (Map):	CUYAHOGA		
State Code (Map):	OH		
Postal Code (Map):	44102		

**Brownfields Details**

Registry I:	110071194792	EPA ID:	
EPA Region:	05	BF RLF Gra:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Cat No:	04110002				BF RLF Pil:	
RCRA Handl:					BF Assess :	
RCRA Curre:					BF Cleanup:	
RCRA Remed:					BF Tba Ind:	
RCRA Const:					BF 128a In:	
RCRA El He:					BF IC Code:	U
RCRA El Gm:					BF IC Gc I:	U
RCRA Rem 1:					BF IC Ep I:	U
RCRA Ec Gw:					BF IC ID I:	U
RCRA Ec Ng:					BF IC Pr I:	U
RCRA IC Ep:					FF Brac In:	
RCRA IC Gc:					BF RLF Ind:	
RCRA IC ID:					BF Assess1:	Y
RCRA IC Pr:					BF Multipu:	
FF RCRA In:					BF Awp Ind:	
RCRA Trans:					BF Showcas:	
RCRA Tra 1:					BF 128a P :	
RCRA Ec Co:					LUST Relea:	
RCRA IC Co:					LUST Award:	
RCRA Gpra :					LUST State:	
RCRA Rem 2:					Congressio:	OH-09
RCRA Dru 1:					FD Agency :	
SF Site ID:					FD Listing:	
SF Ec Ind:					FD Non NPL:	
SF El Gm C:					FD RCRA Ha:	
SF El He C:					FD RCRA Ca:	
SF IC Ind:					FD SF NPL :	
SF NPL Cod:					FD FF Ind:	
SF NPL C 1:					FD Ej Code:	
SF Admin F:					FD Brac In:	
FF And Sit:					FD Federal:	
FF SF Ind:					FD Hrs Sco:	
Map Symbol:	B				FD Ongoing:	
Data Refre:	29-Jul-2022				FD NPL Sta:	
GIS Refres:					FD Non N 1:	
New Site:					FD RCRA Gw:	
Repow Ref :					FD RCRA He:	
EPAOSC Sit:					FD GMS Sur:	
EPAOSC Res:					FD Hes Sur:	
EPAOSC R 1:					FD SF Site:	
EPAOSC Sta:					FD Brac Ro:	
EPAOSC Inc:					Stimulus S:	
Desc :					Stimulus B:	
Ind Name:						
Cat Name:		Cuyahoga				
Sub Name:		Cuyahoga				
Primary Name:		PILSNER SQUARE 6605 CLARK				
RCRA Drupa:						
Url:					<a href="https://obipublic11.epa.gov/analytics/saw.dll?PortalPages&amp;Action=Navigate&amp;col1=ACRES_GRANT_EXPORT.PROPERTY_ID&amp;val1=%22250537.0%22&amp;PortalPath=/shared/CIMC/_portal/CIMC&amp;Page=Profile+Page">https://obipublic11.epa.gov/analytics/saw.dll?PortalPages&amp;Action=Navigate&amp;col1=ACRES_GRANT_EXPORT.PROPERTY_ID&amp;val1=%22250537.0%22&amp;PortalPath=/shared/CIMC/_portal/CIMC&amp;Page=Profile+Page</a>	
Census Url:					<a href="https://ejscreen.epa.gov/mapper/demogreportpdf.aspx?report=census2010sf1&amp;coords=-81.7312150084093%2C41.469152016318006&amp;featype=point&amp;radius=1.0">https://ejscreen.epa.gov/mapper/demogreportpdf.aspx?report=census2010sf1&amp;coords=-81.7312150084093%2C41.469152016318006&amp;featype=point&amp;radius=1.0</a>	
ACS Url:					<a href="https://ejscreen.epa.gov/mapper/demogreportpdf.aspx?report=acs2017&amp;coords=-81.7312150084093%2C41.469152016318006&amp;featype=point&amp;radius=1.0">https://ejscreen.epa.gov/mapper/demogreportpdf.aspx?report=acs2017&amp;coords=-81.7312150084093%2C41.469152016318006&amp;featype=point&amp;radius=1.0</a>	
SF Site Na:					UST Status:	
SF Non Npl:					UST Substa:	
SF Non N 1:					UST Landus:	
SF Non N 3:					UST SPA Wa:	
ERR Lat Lo:					UST SPA Fa:	
REPOW BF:					UST WHPA W:	
REPOW SF:					UST WHPA F:	
REPOW RCRA:					UST Open:	
REPOW Ref1:					UST Closed:	
RCRA Han 1:					LUST ID:	
RCRA Rau I:					Saa Site:	
BF Propert:		250537-				
REPOW Re 1:						
BF Prope 1:		Pilsner Square 6605 Clark				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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SF Non N 2:

**Cleanups In My Community (CIMC)**

<b>Grant ID:</b>	69605275	<b>ASMT Cntrl Sub :</b>	
<b>Grant Type:</b>	Assessment	<b>Cleanup Cntrl Sub :</b>	
<b>EPA Region:</b>	05	<b>ASMT Asbestos :</b>	Y
<b>Ownership Entity:</b>	Private	<b>Cleanup Asbestos :</b>	
<b>Latitude Measure:</b>	41.46915201631802	<b>ASMT PcbS :</b>	
<b>Longitude Measure:</b>	-81.73121500840932	<b>Cleanup PcbS :</b>	
<b>Flag Cleanup Reqcd:</b>	Y	<b>ASMT VocS :</b>	Y
<b>Flag IC Required:</b>	U	<b>Cleanup VocS :</b>	
<b>Stcntrbg:</b>		<b>ASMT Lead :</b>	Y
<b>Property Size:</b>	1.21	<b>Cleanup Lead :</b>	
<b>Flag IC in Place:</b>		<b>ASMT Oth Metal :</b>	
<b>IC in Place Date:</b>		<b>Cleanup Oth Metal :</b>	
<b>Prop Cntrl :</b>		<b>ASMT Pahs :</b>	Y
<b>Gov Cntrl :</b>		<b>Cleanup Pahs :</b>	
<b>Permit Tools :</b>		<b>ASMT Oth Cont:</b>	
<b>Info Dev/Ces :</b>		<b>Cleanup Oth Cont:</b>	
<b>Prop Fnding Type Cd:</b>	Hazardous & Petroleum	<b>ASMT Air :</b>	
<b>Ownshp Changed :</b>		<b>Cleanup Air :</b>	
<b>Sflp Factor :</b>		<b>ASMT Drk Wat:</b>	
<b>Source Mapscale No:</b>		<b>Cleanup Drk Wat:</b>	
<b>Past Cml Acres:</b>		<b>ASMT Grd Water:</b>	
<b>Future Cml Acres:</b>		<b>Cleanup Grd Water:</b>	
<b>Past Grnspc Acres:</b>		<b>ASMT Sediments :</b>	
<b>Future Grnspc Acres:</b>		<b>Cleanup Sediments :</b>	
<b>Past Acres:</b>	1.21	<b>ASMT Soil :</b>	Y
<b>Future Acres:</b>		<b>Cleanup Soil :</b>	
<b>Past Res Acres:</b>		<b>ASMT Srf Water :</b>	
<b>Future Res Acres:</b>		<b>Cleanup Srf Water :</b>	
<b>St Enrollment Dt:</b>		<b>Other Media :</b>	
<b>St Enrollment ID:</b>		<b>Unknown Media :</b>	
<b>St NFA Dt:</b>		<b>Ready For Reuse :</b>	N
<b>Assess Petrol Prod :</b>		<b>Assess Amount:</b>	
<b>Cleanup Petrol Prod :</b>		<b>Assess Fnd Ent Nm:</b>	
<b>Assess Start Dt:</b>		<b>Photo Available :</b>	
<b>Assess Cmpltn Dt:</b>		<b>Video Available :</b>	
<b>Cleanup Start Dt:</b>		<b>Cleanup Acres:</b>	
<b>Cleanup Cmpltn Dt:</b>		<b>Cleanup Amount:</b>	
<b>Redev Start Dt:</b>		<b>Redev Acres:</b>	
<b>Redev Cleanup Jobs:</b>		<b>Redev Amount:</b>	
<b>Grant Recipient Nm:</b>	Cuyahoga County Land Reutilization Corp		
<b>PropertyNm:</b>	Pilsner Square 6605 Clark		
<b>Address:</b>	6605 Clark Ave.		
<b>City:</b>	CLEVELAND		
<b>State Code:</b>	OH		
<b>Zip Code:</b>	44102		
<b>Local Parcel No:</b>	006-30-066		
<b>Current Owner:</b>			
<b>IC Data Address:</b>			
<b>Horizontal Collection Method:</b>			
<b>Reference Point:</b>			
<b>Horizontal Reference Datum:</b>			
<b>Other Description:</b>			
<b>Other Desc Cleaned Up:</b>			
<b>Assess Type:</b>			
<b>Assess Fund Entity:</b>			
<b>Cleanup Funding EntityNm:</b>			
<b>Cleanup Fund Entity:</b>			
<b>Redev Funding Entity Nm:</b>			
<b>Desc Hist:</b>			
<b>Accmplisht Cnt Flag:</b>		<b>Vacant Housing:</b>	
<b>Coop Agreement No:</b>	00E02732	<b>Vacant Housing Pct:</b>	
<b>Past Mltistry Acres:</b>		<b>Total Unemployed:</b>	
<b>Ftr Multistory Acres:</b>		<b>Unemployed Pct:</b>	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Assess Cadmium :					Radius:	
Clnup Cadmium :					Actvy Funded:	
Assess Chromium :					Redev Lvrgd Srcs:	
Clnup Chromium :					AA Amt Funding:	
Assess Copper :					Flag Clnup Trmt Tech:	U
Clnup Copper :					Excavation Disposal:	
Assess Iron :					Extrctn of Cntmnts:	
Clnup Iron :					Removal of Mats:	
Assess Nickel :					Rdctn of Cntmnts:	
Clnup Nickel :					Clnup of Structures:	
Assess Selenium :					Env EC Required:	U
Clnup Selenium :					Flag EC Cover Tech:	
Assess Mercury :					Flag EC Security:	
Clnup Mercury :					Flag EC Immbiztn:	
Assess ArsenIC :					Flag EC Eng Barriers:	
Clnup ArsenIC :					Flag EC Other:	
Assess Bldg Mats :	Y				Env IC in Place:	
Clnup Bldg Mats :					Env EC in Place:	
Assess oorair :	Y				Env Clnup Jobs:	
Clnup oorair :					Sect 128 A State Trbl:	
Assess None :					Multipurpose:	
Clnup None :					Clnup Cst Shr Amt:	
Assess Pesticides :					RLF Loan Amount:	
Clnup Pesticides :					RLF Ln Cst Shr Amt:	
Assess Unknown :					Pro Income Amt:	
Clnup Unknown :					Dt RLF Loan Signed:	
Assess Svocs :					Repayment Period:	
Clnup Svocs :					Interest Rate:	
Clnup Unkn Media :					RLF Subgrant Amt:	
Redev Cmpltn Date:					Cost Share Amt:	
Pro Code:	BF				Env Pro Income Amt:	
FCA Fy:					Dt RLF Sbgrnt Signd:	
Flag EC in Place:					Clnup Actvy Funded:	
Flag EC Required:	U				Below Poverty:	
RFR Notation:					Below Poverty Pct:	
Gpa Type ID:	6				Median Income:	
Clnup Doc:					Low Income:	
Awp Catalyst Yn:					Low Income Pct:	
Flag Prop Not Enrld:	Y					
Redev Fund Entity:						
Gpa Type Desc:		Acres Cleaned Up				
AA Actvy Funded:						
AA Source of Funding:						
Clnup Trmt Tech Info:						
EC Data Address:						
EC Addl Info:						
Env IC Data Address:						
Other Forms of Doc:						
IC Addl Info:						
Highlights:		Former beer bottling facility. Local CDC interested in redeveloping structure for affordable housing. Limited Phase II, Asbestos Survey and Lead Survey were conducted, indicating the presence of contaminants needing cleanup.				
Property Alias:		006-30-066				
Ctmnt Found:		Asbestos Lead PAHs VOCs				
Ctmnt Cleanedup:						
Ctmnt Rec:						

**Media Affected:**  
Building Materials Air Soil

**Cleanups In My Community (CIMC)**

Grant ID:	69605275	ASMT Cntrl Sub :	
Grant Type:	Assessment	Cleanup Cntrl Sub :	
EPA Region:	05	ASMT Asbestos :	Y
Ownership Entity:	Private	Cleanup Asbestos :	
Latitude Measure:	41.46915201631802	ASMT Pcb : :	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Longitude Measure:	-81.73121500840932				Cleanup Pcbs :	
Flag Cleanup Reqcd:	Y				ASMT Vocs :	Y
Flag IC Required:	U				Cleanup Vocs :	
Stcntrbg:					ASMT Lead :	Y
Property Size:	1.21				Cleanup Lead :	
Flag IC in Place:					ASMT Oth Metal :	
IC in Place Date:					Cleanup Oth Metal :	
Prop Cntrl :					ASMT Pahs :	Y
Gov Cntrl :					Cleanup Pahs :	
Permit Tools :					ASMT Oth Cont:	
Info Dev/Ces :					Cleanup Oth Cont:	
Prop Fnding Type Cd:	Hazardous & Petroleum				ASMT Air :	
Ownshp Changed :					Cleanup Air :	
Sflp Factor :					ASMT Drk Wat:	
Source Mapscale No:					Cleanup Drk Wat:	
Past Cml Acres:					ASMT Grd Water:	
Future Cml Acres:					Cleanup Grd Water:	
Past Grnspc Acres:					ASMT Sediments :	
Future Grnspc Acres:					Cleanup Sediments :	
Past Acres:	1.21				ASMT Soil :	Y
Future Acres:					Cleanup Soil :	
Past Res Acres:					ASMT Srf Water :	
Future Res Acres:					Cleanup Srf Water :	
St Enrollment Dt:					Other Media :	
St Enrollment ID:					Unknown Media :	
St NFA Dt:					Ready For Reuse :	N
Assess Petrol Prod :					Assess Amount:	12550
Cleanup Petrol Prod :					Assess Fnd Ent Nm:	EPA
Assess Start Dt:	04/06/2020				Photo Available :	
Assess Cmpltn Dt:	05/15/2020				Video Available :	
Cleanup Start Dt:					Cleanup Acres:	
Cleanup Cmpltn Dt:					Cleanup Amount:	
Redev Start Dt:					Redev Acres:	
Redev Cleanup Jobs:					Redev Amount:	
Grant Recipient Nm:		Cuyahoga County Land Reutilization Corp				
PropertyNm:		Pilsner Square 6605 Clark				
Address:		6605 Clark Ave.				
City:		CLEVELAND				
State Code:		OH				
Zip Code:		44102				
Local Parcel No:		006-30-066				
Current Owner:						
IC Data Address:						
Horizontal Collection Method:						
Reference Point:						
Horizontal Reference Datum:						
Other Description:						
Other Desc Cleaned Up:						
Assess Type:		Phase II Environmental Assessment				
Assess Fund Entity:		US EPA - Brownfields Assessment Cooperative Agreement				
Cleanup Funding EntityNm:						
Cleanup Fund Entity:						
Redev Funding Entity Nm:						
Desc Hist:						
Accmplisht Cnt Flag:	Y				Vacant Housing:	
Coop Agreement No:	00E02732				Vacant Housing Pct:	
Past Mltistry Acres:					Total Unemployed:	
Ftr Multistory Acres:					Unemployed Pct:	
Assess Cadmium :					Radius:	
Clnup Cadmium :					Actvy Funded:	
Assess Chromium :					Redev Lvrgd Srcs:	
Clnup Chromium :					AA Amt Funding:	
Assess Copper :					Flag Clnup Trmt Tech:	U
Clnup Copper :					Excavation Disposal:	
Assess Iron :					Extrctn of Cntmnts:	
Clnup Iron :					Removal of Mats:	
Assess Nickel :					Rdctn of Cntmnts:	
Clnup Nickel :					Clnup of Structures:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Assess Selenium :					Env EC Required:	U
Clnup Selenium :					Flag EC Cover Tech:	
Assess Mercury :					Flag EC Security:	
Clnup Mercury :					Flag EC Immblyztn:	
Assess ArsenIC :					Flag EC Eng Barriers:	
Clnup ArsenIC :					Flag EC Other:	
Assess Bldg Mats :	Y				Env IC in Place:	
Clnup Bldg Mats :					Env EC in Place:	
Assess oorair :	Y				Env Clnup Jobs:	
Clnup oorair :					Sect 128 A State Trbl:	
Assess None :					Multipurpose:	
Clnup None :					Clnup Cst Shr Amt:	
Assess Pesticides :					RLF Loan Amount:	
Clnup Pesticides :					RLF Ln Cst Shr Amt:	
Assess Unknown :					Pro Income Amt:	
Clnup Unknown :					Dt RLF Loan Signed:	
Assess Svocs :					Repayment Period:	
Clnup Svocs :					Interest Rate:	
Clnup Unkn Media :					RLF Subgrant Amt:	
Redev Cmpltn Date:					Cost Share Amt:	
Pro Code:	BF				Env Pro Income Amt:	
FCA Fy:	FY22				Dt RLF Sbrgrnt Signd:	
Flag EC in Place:					Clnup Actvy Funded:	
Flag EC Required:	U				Below Poverty:	
RFR Notation:					Below Poverty Pct:	
Gpa Type ID:	2				Median Income:	
Clnup Doc:					Low Income:	
Awp Catalyst Yn:					Low Income Pct:	
Flag Prop Not Enrld:	Y					
Redev Fund Entity:						
Gpa Type Desc:		Phase II Environmental Assessment				
AA Actvy Funded:		Supplemental Assessment				
AA Source of Funding:		Private/Other Funding				
Clnup Trmt Tech Info:						
EC Data Address:						
EC Addl Info:						
Env IC Data Address:						
Other Forms of Doc:						
IC Addl Info:						
Highlights:		Former beer bottling facility. Local CDC interested in redeveloping structure for affordable housing. Limited Phase II, Asbestos Survey and Lead Survey were conducted, indicating the presence of contaminants needing cleanup.				
Property Alias:		006-30-066				
Ctmnt Found:		Asbestos Lead PAHs VOCs				
Ctmnt Cleanedup:						
Ctmnt Rec:						

**Media Affected:**  
Building Materials Air Soil

**Cleanups In My Community (CIMC)**

Grant ID:	69605275	ASMT Cntrl Sub :	
Grant Type:	Assessment	Cleanup Cntrl Sub :	
EPA Region:	05	ASMT Asbestos :	Y
Ownership Entity:	Private	Cleanup Asbestos :	
Latitude Measure:	41.46915201631802	ASMT Pcbs :	
Longitude Measure:	-81.73121500840932	Cleanup Pcbs :	
Flag Cleanup Reqcd:	Y	ASMT Vocs :	Y
Flag IC Required:	U	Cleanup Vocs :	
Stcntrbg:		ASMT Lead :	Y
Property Size:	1.21	Cleanup Lead :	
Flag IC in Place:		ASMT Oth Metal :	
IC in Place Date:		Cleanup Oth Metal :	
Prop Cntrl :		ASMT Pahs :	Y
Gov Cntrl :		Cleanup Pahs :	
Permit Tools :		ASMT Oth Cont:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Info Dev/Ces :</b>					<b>Cleanup Oth Cont:</b>	
<b>Prop Fnding Type Cd:</b>	Hazardous & Petroleum				<b>ASMT Air :</b>	
<b>Ownshp Changed :</b>					<b>Cleanup Air :</b>	
<b>Sflp Factor :</b>					<b>ASMT Drk Wat:</b>	
<b>Source Mapscale No:</b>					<b>Cleanup Drk Wat:</b>	
<b>Past Cml Acres:</b>					<b>ASMT Grd Water:</b>	
<b>Future Cml Acres:</b>					<b>Cleanup Grd Water:</b>	
<b>Past Grnspc Acres:</b>					<b>ASMT Sediments :</b>	
<b>Future Grnspc Acres:</b>					<b>Cleanup Sediments :</b>	
<b>Past Acres:</b>	1.21				<b>ASMT Soil :</b>	Y
<b>Future Acres:</b>					<b>Cleanup Soil :</b>	
<b>Past Res Acres:</b>					<b>ASMT Srf Water :</b>	
<b>Future Res Acres:</b>					<b>Cleanup Srf Water :</b>	
<b>St Enrollment Dt:</b>					<b>Other Media :</b>	
<b>St Enrollment ID:</b>					<b>Unknown Media :</b>	
<b>St NFA Dt:</b>					<b>Ready For Reuse :</b>	N
<b>Assess Petrol Prod :</b>					<b>Assess Amount:</b>	2450
<b>Cleanup Petrol Prod :</b>					<b>Assess Fnd Ent Nm:</b>	EPA
<b>Assess Start Dt:</b>	04/06/2020				<b>Photo Available :</b>	
<b>Assess Cmpltn Dt:</b>	05/15/2020				<b>Video Available :</b>	
<b>Cleanup Start Dt:</b>					<b>Cleanup Acres:</b>	
<b>Cleanup Cmpltn Dt:</b>					<b>Cleanup Amount:</b>	
<b>Redev Start Dt:</b>					<b>Redev Acres:</b>	
<b>Redev Cleanup Jobs:</b>					<b>Redev Amount:</b>	
<b>Grant Recipient Nm:</b>		Cuyahoga County Land Reutilization Corp				
<b>PropertyNm:</b>		Pilsner Square 6605 Clark				
<b>Address:</b>		6605 Clark Ave.				
<b>City:</b>		CLEVELAND				
<b>State Code:</b>		OH				
<b>Zip Code:</b>		44102				
<b>Local Parcel No:</b>		006-30-066				
<b>Current Owner:</b>						
<b>IC Data Address:</b>						
<b>Horizontal Collection Method:</b>						
<b>Reference Point:</b>						
<b>Horizontal Reference Datum:</b>						
<b>Other Description:</b>						
<b>Other Desc Cleaned Up:</b>						
<b>Assess Type:</b>		Supplemental Assessment				
<b>Assess Fund Entity:</b>		US EPA - Brownfields Assessment Cooperative Agreement				
<b>Cleanup Funding EntityNm:</b>						
<b>Cleanup Fund Entity:</b>						
<b>Redev Funding Entity Nm:</b>						
<b>Desc Hist:</b>						
<b>Accmplisht Cnt Flag:</b>	N				<b>Vacant Housing:</b>	
<b>Coop Agreement No:</b>	00E02732				<b>Vacant Housing Pct:</b>	
<b>Past Mltistry Acres:</b>					<b>Total Unemployed:</b>	
<b>Ftr Mltistry Acres:</b>					<b>Unemployed Pct:</b>	
<b>Assess Cadmium :</b>					<b>Radius:</b>	
<b>Clnup Cadmium :</b>					<b>Actvy Funded:</b>	
<b>Assess Chromium :</b>					<b>Redev Lvrgd Srcs:</b>	
<b>Clnup Chromium :</b>					<b>AA Amt Funding:</b>	
<b>Assess Copper :</b>					<b>Flag Clnup Trmt Tech:</b>	U
<b>Clnup Copper :</b>					<b>Excavation Disposal:</b>	
<b>Assess Iron :</b>					<b>Extrctn of Cntmnts:</b>	
<b>Clnup Iron :</b>					<b>Removal of Mats:</b>	
<b>Assess Nickel :</b>					<b>Rdctn of Cntmnts:</b>	
<b>Clnup Nickel :</b>					<b>Clnup of Structures:</b>	
<b>Assess Selenium :</b>					<b>Env EC Required:</b>	U
<b>Clnup Selenium :</b>					<b>Flag EC Cover Tech:</b>	
<b>Assess Mercury :</b>					<b>Flag EC Security:</b>	
<b>Clnup Mercury :</b>					<b>Flag EC Immblyztn:</b>	
<b>Assess ArsenIC :</b>					<b>Flag EC Eng Barriers:</b>	
<b>Clnup ArsenIC :</b>					<b>Flag EC Other:</b>	
<b>Assess Bldg Mats :</b>	Y				<b>Env IC in Place:</b>	
<b>Clnup Bldg Mats :</b>					<b>Env EC in Place:</b>	
<b>Assess oorair :</b>	Y				<b>Env Clnup Jobs:</b>	
<b>Clnup oorair :</b>					<b>Sect 128 A State Trbl:</b>	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Assess None :					Multipurpose:	
Clnup None :					Clnup Cst Shr Amt:	
Assess Pesticides :					RLF Loan Amount:	
Clnup Pesticides :					RLF Ln Cst Shr Amt:	
Assess Unknown :					Pro Income Amt:	
Clnup Unknown :					Dt RLF Loan Signed:	
Assess Svocs :					Repayment Period:	
Clnup Svocs :					Interest Rate:	
Clnup Unkn Media :					RLF Subgrant Amt:	
Redev Cmpltn Date:					Cost Share Amt:	
Pro Code:	BF				Env Pro Income Amt:	
FCA Fy:					Dt RLF Sbrgrnt Signd:	
Flag EC in Place:					Clnup Actvy Funded:	
Flag EC Required:	U				Below Poverty:	
RFR Notation:					Below Poverty Pct:	
Gpa Type ID:	12				Median Income:	
Clnup Doc:					Low Income:	
Awp Catalyst Yn:					Low Income Pct:	
Flag Prop Not Enrld:	Y					
Redev Fund Entity:						
Gpa Type Desc:		Supplemental Assessment				
AA Actvy Funded:		Supplemental Assessment				
AA Source of Funding:						
Clnup Trmt Tech Info:						
EC Data Address:						
EC Addl Info:						
Env IC Data Address:						
Other Forms of Doc:						
IC Addl Info:						
Highlights:			Former beer bottling facility. Local CDC interested in redeveloping structure for affordable housing. Limited Phase II, Asbestos Survey and Lead Survey were conducted, indicating the presence of contaminants needing cleanup.			
Property Alias:			006-30-066			
Ctmnt Found:			Asbestos Lead PAHs VOCs			
Ctmnt Cleanedup:						
Ctmnt Rec:						

**Media Affected:**  
Building Materials Air Soil

**Cleanups In My Community (CIMC)**

Grant ID:	69605275	ASMT Cntrl Sub :	
Grant Type:	Assessment	Cleanup Cntrl Sub :	
EPA Region:	05	ASMT Asbestos :	Y
Ownership Entity:	Private	Cleanup Asbestos :	
Latitude Measure:	41.46915201631802	ASMT PcbS :	
Longitude Measure:	-81.73121500840932	Cleanup PcbS :	
Flag Cleanup Reqcd:	Y	ASMT VocS :	Y
Flag IC Required:	U	Cleanup VocS :	
Stcntrbg:		ASMT Lead :	Y
Property Size:	1.21	Cleanup Lead :	
Flag IC in Place:		ASMT Oth Metal :	
IC in Place Date:		Cleanup Oth Metal :	
Prop Cntrl :		ASMT PahS :	Y
Gov Cntrl :		Cleanup PahS :	
Permit Tools :		ASMT Oth Cont:	
Info DevICes :		Cleanup Oth Cont:	
Prop Fndng Type Cd:	Hazardous & Petroleum	ASMT Air :	
Ownshp Changed :		Cleanup Air :	
Sflp Factor :		ASMT Drk Wat:	
Source Mapscale No:		Cleanup Drk Wat:	
Past Cml Acres:		ASMT Grd Water:	
Future Cml Acres:		Cleanup Grd Water:	
Past Grnspc Acres:		ASMT Sediments :	
Future Grnspc Acres:		Cleanup Sediments :	
Past Acres:	1.21	ASMT Soil :	Y

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Future Acres:					Cleanup Soil :	
Past Res Acres:					ASMT Srf Water :	
Future Res Acres:					Cleanup Srf Water :	
St Enrollment Dt:					Other Media :	
St Enrollment ID:					Unknown Media :	
St NFA Dt:					Ready For Reuse :	N
Assess Petrol Prod :					Assess Amount:	1700
Cleanup Petrol Prod :					Assess Fnd Ent Nm:	Detroit Shoreway CDC
Assess Start Dt:	04/06/2020				Photo Available :	
Assess Cmpltn Dt:	05/15/2020				Video Available :	
Cleanup Start Dt:					Cleanup Acres:	
Cleanup Cmpltn Dt:					Cleanup Amount:	
Redev Start Dt:					Redev Acres:	
Redev Cleanup Jobs:					Redev Amount:	
Grant Recipient Nm:			Cuyahoga County Land Reutilization Corp			
PropertyNm:			Pilsner Square 6605 Clark			
Address:			6605 Clark Ave.			
City:			CLEVELAND			
State Code:			OH			
Zip Code:			44102			
Local Parcel No:			006-30-066			
Current Owner:						
IC Data Address:						
Horizontal Collection Method:						
Reference Point:						
Horizontal Reference Datum:						
Other Description:						
Other Desc Cleaned Up:						
Assess Type:			Phase II Environmental Assessment			
Assess Fund Entity:			Private/Other Funding			
Cleanup Funding EntityNm:						
Cleanup Fund Entity:						
Redev Funding Entity Nm:						
Desc Hist:						
Accmplisht Cnt Flag:	Y				Vacant Housing:	
Coop Agreement No:	00E02732				Vacant Housing Pct:	
Past Mltistry Acres:					Total Unemployed:	
Ftr Multistory Acres:					Unemployed Pct:	
Assess Cadmium :					Radius:	
Clnup Cadmium :					Actvy Funded:	
Assess Chromium :					Redev Lvrgd Srcs:	
Clnup Chromium :					AA Amt Funding:	
Assess Copper :					Flag Clnup Trmt Tech:	U
Clnup Copper :					Excavation Disposal:	
Assess Iron :					Extrctn of Cntmnts:	
Clnup Iron :					Removal of Mats:	
Assess Nickel :					Rdctn of Cntmnts:	
Clnup Nickel :					Clnup of Structures:	
Assess Selenium :					Env EC Required:	U
Clnup Selenium :					Flag EC Cover Tech:	
Assess Mercury :					Flag EC Security:	
Clnup Mercury :					Flag EC Immblyztn:	
Assess ArsenIC :					Flag EC Eng Barriers:	
Clnup ArsenIC :					Flag EC Other:	
Assess Bldg Mats :	Y				Env IC in Place:	
Clnup Bldg Mats :					Env EC in Place:	
Assess oorair :	Y				Env Clnup Jobs:	
Clnup oorair :					Sect 128 A State Trbl:	
Assess None :					Multipurpose:	
Clnup None :					Clnup Cst Shr Amt:	
Assess Pesticides :					RLF Loan Amount:	
Clnup Pesticides :					RLF Ln Cst Shr Amt:	
Assess Unknown :					Pro Income Amt:	
Clnup Unknown :					Dt RLF Loan Signed:	
Assess Svocs :					Repayment Period:	
Clnup Svocs :					Interest Rate:	
Clnup Unkn Media :					RLF Subgrant Amt:	
Redev Cmpltn Date:					Cost Share Amt:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Pro Code:</b>	BF				<b>Env Pro Income Amt:</b>	
<b>FCA Fy:</b>	FY22				<b>Dt RLF Sbgrrt Signd:</b>	
<b>Flag EC in Place:</b>					<b>Clnup Actvy Funded:</b>	
<b>Flag EC Required:</b>	U				<b>Below Poverty:</b>	
<b>RFR Notation:</b>					<b>Below Poverty Pct:</b>	
<b>Gpa Type ID:</b>	2				<b>Median Income:</b>	
<b>Clnup Doc:</b>					<b>Low Income:</b>	
<b>Awp Catalyst Yn:</b>					<b>Low Income Pct:</b>	
<b>Flag Prop Not Enrld:</b>	Y					
<b>Redev Fund Entity:</b>						
<b>Gpa Type Desc:</b>		Phase II Environmental Assessment				
<b>AA Actvy Funded:</b>		Phase II Environmental Assessment				
<b>AA Source of Funding:</b>		Private/Other Funding				
<b>Clnup Trmt Tech Info:</b>						
<b>EC Data Address:</b>						
<b>EC Addl Info:</b>						
<b>Env IC Data Address:</b>						
<b>Other Forms of Doc:</b>						
<b>IC Addl Info:</b>						
<b>Highlights:</b>		Former beer bottling facility. Local CDC interested in redeveloping structure for affordable housing. Limited Phase II, Asbestos Survey and Lead Survey were conducted, indicating the presence of contaminants needing cleanup.				
<b>Property Alias:</b>		006-30-066				
<b>Ctmnt Found:</b>		Asbestos Lead PAHs VOCs				
<b>Ctmnt Cleanedup:</b>						
<b>Ctmnt Rec:</b>						
<b>Media Affected:</b>						
		Building Materials Air Soil				

**Cleanups In My Community (CIMC)**

<b>Grant ID:</b>	69605275	<b>ASMT Cntrl Sub :</b>	
<b>Grant Type:</b>	Assessment	<b>Cleanup Cntrl Sub :</b>	
<b>EPA Region:</b>	05	<b>ASMT Asbestos :</b>	Y
<b>Ownership Entity:</b>	Private	<b>Cleanup Asbestos :</b>	
<b>Latitude Measure:</b>	41.46915201631802	<b>ASMT PcbS :</b>	
<b>Longitude Measure:</b>	-81.73121500840932	<b>Cleanup PcbS :</b>	
<b>Flag Cleanup Reqcd:</b>	Y	<b>ASMT VocS :</b>	Y
<b>Flag IC Required:</b>	U	<b>Cleanup VocS :</b>	
<b>Stcncrbg:</b>		<b>ASMT Lead :</b>	Y
<b>Property Size:</b>	1.21	<b>Cleanup Lead :</b>	
<b>Flag IC in Place:</b>		<b>ASMT Oth Metal :</b>	
<b>IC in Place Date:</b>		<b>Cleanup Oth Metal :</b>	
<b>Prop Cntrl :</b>		<b>ASMT PahS :</b>	Y
<b>Gov Cntrl :</b>		<b>Cleanup PahS :</b>	
<b>Permit Tools :</b>		<b>ASMT Oth Cont:</b>	
<b>Info DevICes :</b>		<b>Cleanup Oth Cont:</b>	
<b>Prop Fndng Type Cd:</b>	Hazardous & Petroleum	<b>ASMT Air :</b>	
<b>Ownshp Changed :</b>		<b>Cleanup Air :</b>	
<b>Sflp Factor :</b>		<b>ASMT Drk Wat:</b>	
<b>Source Mapscale No:</b>		<b>Cleanup Drk Wat:</b>	
<b>Past Cml Acres:</b>		<b>ASMT Grd Water:</b>	
<b>Future Cml Acres:</b>		<b>Cleanup Grd Water:</b>	
<b>Past Grnspc Acres:</b>		<b>ASMT Sediments :</b>	
<b>Future Grnspc Acres:</b>		<b>Cleanup Sediments :</b>	
<b>Past Acres:</b>	1.21	<b>ASMT Soil :</b>	Y
<b>Future Acres:</b>		<b>Cleanup Soil :</b>	
<b>Past Res Acres:</b>		<b>ASMT Srf Water :</b>	
<b>Future Res Acres:</b>		<b>Cleanup Srf Water :</b>	
<b>St Enrollment Dt:</b>		<b>Other Media :</b>	
<b>St Enrollment ID:</b>		<b>Unknown Media :</b>	
<b>St NFA Dt:</b>		<b>Ready For Reuse :</b>	N
<b>Assess Petrol Prod :</b>		<b>Assess Amount:</b>	
<b>Cleanup Petrol Prod :</b>		<b>Assess Fnd Ent Nm:</b>	
<b>Assess Start Dt:</b>		<b>Photo Available :</b>	
<b>Assess Cmpltn Dt:</b>		<b>Video Available :</b>	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Cleanup Start Dt:</b>					<b>Cleanup Acres:</b>	
<b>Cleanup Cmpltn Dt:</b>					<b>Cleanup Amount:</b>	
<b>Redev Start Dt:</b>					<b>Redev Acres:</b>	
<b>Redev Cleanup Jobs:</b>					<b>Redev Amount:</b>	
<b>Grant Recipient Nm:</b>		Cuyahoga County Land Reutilization Corp				
<b>PropertyNm:</b>		Pilsner Square 6605 Clark				
<b>Address:</b>		6605 Clark Ave.				
<b>City:</b>		CLEVELAND				
<b>State Code:</b>		OH				
<b>Zip Code:</b>		44102				
<b>Local Parcel No:</b>		006-30-066				
<b>Current Owner:</b>						
<b>IC Data Address:</b>						
<b>Horizontal Collection Method:</b>						
<b>Reference Point:</b>						
<b>Horizontal Reference Datum:</b>						
<b>Other Description:</b>						
<b>Other Desc Cleaned Up:</b>						
<b>Assess Type:</b>						
<b>Assess Fund Entity:</b>						
<b>Cleanup Funding EntityNm:</b>						
<b>Cleanup Fund Entity:</b>						
<b>Redev Funding Entity Nm:</b>						
<b>Desc Hist:</b>						
<b>Accmplisht Cnt Flag:</b>					<b>Vacant Housing:</b>	
<b>Coop Agreement No:</b>	00E02732				<b>Vacant Housing Pct:</b>	
<b>Past Mltistry Acres:</b>					<b>Total Unemployed:</b>	
<b>Ftr Multistory Acres:</b>					<b>Unemployed Pct:</b>	
<b>Assess Cadmium :</b>					<b>Radius:</b>	
<b>Clnup Cadmium :</b>					<b>Actvy Funded:</b>	
<b>Assess Chromium :</b>					<b>Redev Lvrgd Srcs:</b>	
<b>Clnup Chromium :</b>					<b>AA Amt Funding:</b>	
<b>Assess Copper :</b>					<b>Flag Clnup Trmt Tech:</b>	U
<b>Clnup Copper :</b>					<b>Excavation Disposal:</b>	
<b>Assess Iron :</b>					<b>Extrctn of Cntmnts:</b>	
<b>Clnup Iron :</b>					<b>Removal of Mats:</b>	
<b>Assess Nickel :</b>					<b>Rdctn of Cntmnts:</b>	
<b>Clnup Nickel :</b>					<b>Clnup of Structures:</b>	
<b>Assess Selenium :</b>					<b>Env EC Required:</b>	U
<b>Clnup Selenium :</b>					<b>Flag EC Cover Tech:</b>	
<b>Assess Mercury :</b>					<b>Flag EC Security:</b>	
<b>Clnup Mercury :</b>					<b>Flag EC Immbliztn:</b>	
<b>Assess ArsenIC :</b>					<b>Flag EC Eng Barriers:</b>	
<b>Clnup ArsenIC :</b>					<b>Flag EC Other:</b>	
<b>Assess Bldg Mats :</b>	Y				<b>Env IC in Place:</b>	
<b>Clnup Bldg Mats :</b>					<b>Env EC in Place:</b>	
<b>Assess oorair :</b>	Y				<b>Env Clnup Jobs:</b>	
<b>Clnup oorair :</b>					<b>Sect 128 A State Trbl:</b>	
<b>Assess None :</b>					<b>Multipurpose:</b>	
<b>Clnup None :</b>					<b>Clnup Cst Shr Amt:</b>	
<b>Assess Pesticides :</b>					<b>RLF Loan Amount:</b>	
<b>Clnup Pesticides :</b>					<b>RLF Ln Cst Shr Amt:</b>	
<b>Assess Unknown :</b>					<b>Pro Income Amt:</b>	
<b>Clnup Unknown :</b>					<b>Dt RLF Loan Signed:</b>	
<b>Assess Svocs :</b>					<b>Repayment Period:</b>	
<b>Clnup Svocs :</b>					<b>Interest Rate:</b>	
<b>Clnup Unkn Media :</b>					<b>RLF Subgrant Amt:</b>	
<b>Redev Cmpltn Date:</b>					<b>Cost Share Amt:</b>	
<b>Pro Code:</b>	BF				<b>Env Pro Income Amt:</b>	
<b>FCA Fy:</b>					<b>Dt RLF Sbgrnt Signd:</b>	
<b>Flag EC in Place:</b>					<b>Clnup Actvy Funded:</b>	
<b>Flag EC Required:</b>	U				<b>Below Poverty:</b>	
<b>RFR Notation:</b>					<b>Below Poverty Pct:</b>	
<b>Gpa Type ID:</b>	11				<b>Median Income:</b>	
<b>Clnup Doc:</b>					<b>Low Income:</b>	
<b>Awp Catalyst Yn:</b>					<b>Low Income Pct:</b>	
<b>Flag Prop Not Enrld:</b>	Y					
<b>Redev Fund Entity:</b>						

Gpa Type Desc: Cleanup Jobs Leveraged  
 AA Actvy Funded:  
 AA Source of Funding:  
 Clnup Trmt Tech Info:  
 EC Data Address:  
 EC Addl Info:  
 Env IC Data Address:  
 Other Forms of Doc:  
 IC Addl Info:  
 Highlights: Former beer bottling facility. Local CDC interested in redeveloping structure for affordable housing. Limited Phase II, Asbestos Survey and Lead Survey were conducted, indicating the presence of contaminants needing cleanup.  
 Property Alias: 006-30-066  
 Ctmnt Found: Asbestos Lead PAHs VOCs  
 Ctmnt Cleanedup:  
 Ctmnt Rec:

Media Affected:  
 Building Materials Air Soil

**Cleanups In My Community (CIMC)**

Grant ID:	69605275	ASMT Cntrl Sub :	
Grant Type:	Assessment	Cleanup Cntrl Sub :	
EPA Region:	05	ASMT Asbestos :	Y
Ownership Entity:	Private	Cleanup Asbestos :	
Latitude Measure:	41.46915201631802	ASMT PcbS :	
Longitude Measure:	-81.73121500840932	Cleanup PcbS :	
Flag Cleanup Reqcd:	Y	ASMT VocS :	Y
Flag IC Required:	U	Cleanup VocS :	
Stcntrbg:		ASMT Lead :	Y
Property Size:	1.21	Cleanup Lead :	
Flag IC in Place:		ASMT Oth Metal :	
IC in Place Date:		Cleanup Oth Metal :	
Prop Cntrl :		ASMT PahS :	Y
Gov Cntrl :		Cleanup PahS :	
Permit Tools :		ASMT Oth Cont:	
Info DevICes :		Cleanup Oth Cont:	
Prop Fnding Type Cd:	Hazardous & Petroleum	ASMT Air :	
Ownshp Changed :		Cleanup Air :	
Sflp Factor :		ASMT Drk Wat:	
Source Mapscale No:		Cleanup Drk Wat:	
Past Cml Acres:		ASMT Grd Water:	
Future Cml Acres:		Cleanup Grd Water:	
Past Grnspc Acres:		ASMT Sediments :	
Future Grnspc Acres:		Cleanup Sediments :	
Past Acres:	1.21	ASMT Soil :	Y
Future Acres:		Cleanup Soil :	
Past Res Acres:		ASMT Srf Water :	
Future Res Acres:		Cleanup Srf Water :	
St Enrollment Dt:		Other Media :	
St Enrollment ID:		Unknown Media :	
St NFA Dt:		Ready For Reuse :	N
Assess Petrol Prod :		Assess Amount:	
Cleanup Petrol Prod :		Assess Fnd Ent Nm:	
Assess Start Dt:		Photo Available :	
Assess Cmpltn Dt:		Video Available :	
Cleanup Start Dt:		Cleanup Acres:	
Cleanup Cmpltn Dt:		Cleanup Amount:	
Redev Start Dt:		Redev Acres:	
Redev Cleanup Jobs:		Redev Amount:	
Grant Recipient Nm:	Cuyahoga County Land Reutilization Corp		
PropertyNm:	Pilsner Square 6605 Clark		
Address:	6605 Clark Ave.		
City:	CLEVELAND		
State Code:	OH		
Zip Code:	44102		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Local Parcel No:		006-30-066				
Current Owner:						
IC Data Address:						
Horizontal Collection Method:						
Reference Point:						
Horizontal Reference Datum:						
Other Description:						
Other Desc Cleaned Up:						
Assess Type:						
Assess Fund Entity:						
Cleanup Funding EntityNm:						
Cleanup Fund Entity:						
Redev Funding Entity Nm:						
Desc Hist:						
Accmplisht Cnt Flag:						
Coop Agreement No:	00E02732					
Past Mltistry Acres:						
Ftr Multistory Acres:						
Assess Cadmium :						
Clnup Cadmium :						
Assess Chromium :						
Clnup Chromium :						
Assess Copper :						
Clnup Copper :						
Assess Iron :						
Clnup Iron :						
Assess Nickel :						
Clnup Nickel :						
Assess Selenium :						
Clnup Selenium :						
Assess Mercury :						
Clnup Mercury :						
Assess ArsenIC :						
Clnup ArsenIC :						
Assess Bldg Mats :	Y					
Clnup Bldg Mats :						
Assess oorair :	Y					
Clnup oorair :						
Assess None :						
Clnup None :						
Assess Pesticides :						
Clnup Pesticides :						
Assess Unknown :						
Clnup Unknown :						
Assess Svocs :						
Clnup Svocs :						
Clnup Unkn Media :						
Redev Cmpltn Date:						
Pro Code:	BF					
FCA Fy:						
Flag EC in Place:						
Flag EC Required:	U					
RFR Notation:						
Gpa Type ID:	10					
Clnup Doc:						
Awp Catalyst Yn:						
Flag Prop Not Enrld:	Y					
Redev Fund Entity:						
Gpa Type Desc:		Redevelopment Jobs Leveraged				
AA Actvy Funded:						
AA Source of Funding:						
Clnup Trmt Tech Info:						
EC Data Address:						
EC Addl Info:						
Env IC Data Address:						
Other Forms of Doc:						
IC Addl Info:						
Highlights:			Former beer bottling facility. Local CDC interested in redeveloping structure for affordable housing. Limited Phase			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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II, Asbestos Survey and Lead Survey were conducted, indicating the presence of contaminants needing cleanup.  
 006-30-066  
 Asbestos Lead PAHs VOCs  
**Property Alias:**  
**Ctmnt Found:**  
**Ctmnt Cleanedup:**  
**Ctmnt Rec:**

**Media Affected:**

Building Materials Air Soil

**Cleanups In My Community (CIMC)**

<b>Grant ID:</b>	69605275	<b>ASMT Cntrl Sub :</b>	
<b>Grant Type:</b>	Assessment	<b>Cleanup Cntrl Sub :</b>	
<b>EPA Region:</b>	05	<b>ASMT Asbestos :</b>	Y
<b>Ownership Entity:</b>	Private	<b>Cleanup Asbestos :</b>	
<b>Latitude Measure:</b>	41.46915201631802	<b>ASMT PcbS :</b>	
<b>Longitude Measure:</b>	-81.73121500840932	<b>Cleanup PcbS :</b>	
<b>Flag Cleanup Reqcd:</b>	Y	<b>ASMT VocS :</b>	Y
<b>Flag IC Required:</b>	U	<b>Cleanup VocS :</b>	
<b>Stcntrbg:</b>		<b>ASMT Lead :</b>	Y
<b>Property Size:</b>	1.21	<b>Cleanup Lead :</b>	
<b>Flag IC in Place:</b>		<b>ASMT Oth Metal :</b>	
<b>IC in Place Date:</b>		<b>Cleanup Oth Metal :</b>	
<b>Prop Cntrl :</b>		<b>ASMT PahS :</b>	Y
<b>Gov Cntrl :</b>		<b>Cleanup PahS :</b>	
<b>Permit Tools :</b>		<b>ASMT Oth Cont:</b>	
<b>Info DevICes :</b>		<b>Cleanup Oth Cont:</b>	
<b>Prop Fnding Type Cd:</b>	Hazardous & Petroleum	<b>ASMT Air :</b>	
<b>Ownshp Changed :</b>		<b>Cleanup Air :</b>	
<b>Sfillp Factor :</b>		<b>ASMT Drk Wat:</b>	
<b>Source Mapscale No:</b>		<b>Cleanup Drk Wat:</b>	
<b>Past Cml Acres:</b>		<b>ASMT Grd Water:</b>	
<b>Future Cml Acres:</b>		<b>Cleanup Grd Water:</b>	
<b>Past Grnspc Acres:</b>		<b>ASMT Sediments :</b>	
<b>Future Grnspc Acres:</b>		<b>Cleanup Sediments :</b>	
<b>Past Acres:</b>	1.21	<b>ASMT Soil :</b>	Y
<b>Future Acres:</b>		<b>Cleanup Soil :</b>	
<b>Past Res Acres:</b>		<b>ASMT Srf Water :</b>	
<b>Future Res Acres:</b>		<b>Cleanup Srf Water :</b>	
<b>St Enrollment Dt:</b>		<b>Other Media :</b>	
<b>St Enrollment ID:</b>		<b>Unknown Media :</b>	
<b>St NFA Dt:</b>		<b>Ready For Reuse :</b>	N
<b>Assess Petrol Prod :</b>		<b>Assess Amount:</b>	
<b>Cleanup Petrol Prod :</b>		<b>Assess Fnd Ent Nm:</b>	
<b>Assess Start Dt:</b>		<b>Photo Available :</b>	
<b>Assess Cmpltn Dt:</b>		<b>Video Available :</b>	
<b>Cleanup Start Dt:</b>		<b>Cleanup Acres:</b>	
<b>Cleanup Cmpltn Dt:</b>		<b>Cleanup Amount:</b>	
<b>Redev Start Dt:</b>		<b>Redev Acres:</b>	
<b>Redev Cleanup Jobs:</b>		<b>Redev Amount:</b>	
<b>Grant Recipient Nm:</b>	Cuyahoga County Land Reutilization Corp		
<b>PropertyNm:</b>	Pilsner Square 6605 Clark		
<b>Address:</b>	6605 Clark Ave.		
<b>City:</b>	CLEVELAND		
<b>State Code:</b>	OH		
<b>Zip Code:</b>	44102		
<b>Local Parcel No:</b>	006-30-066		
<b>Current Owner:</b>			
<b>IC Data Address:</b>			
<b>Horizontal Collection Method:</b>			
<b>Reference Point:</b>			
<b>Horizontal Reference Datum:</b>			
<b>Other Description:</b>			
<b>Other Desc Cleaned Up:</b>			
<b>Assess Type:</b>			
<b>Assess Fund Entity:</b>			

Cleanup Funding EntityNm:  
 Cleanup Fund Entity:  
 Redev Funding Entity Nm:  
 Desc Hist:

Accmplisht Cnt Flag:  
 Coop Agreement No: 00E02732  
 Past Mltistry Acres:  
 Ftr Multistory Acres:  
 Assess Cadmium :  
 Clnup Cadmium :  
 Assess Chromium :  
 Clnup Chromium :  
 Assess Copper :  
 Clnup Copper :  
 Assess Iron :  
 Clnup Iron :  
 Assess Nickel :  
 Clnup Nickel :  
 Assess Selenium :  
 Clnup Selenium :  
 Assess Mercury :  
 Clnup Mercury :  
 Assess ArseniC :  
 Clnup ArseniC :  
 Assess Bldg Mats : Y  
 Clnup Bldg Mats :  
 Assess oorair : Y  
 Clnup oorair :  
 Assess None :  
 Clnup None :  
 Assess Pesticides :  
 Clnup Pesticides :  
 Assess Unknown :  
 Clnup Unknown :  
 Assess Svocs :  
 Clnup Svocs :  
 Clnup Unkn Media :  
 Redev Cmpltn Date:  
 Pro Code: BF  
 FCA Fy:  
 Flag EC in Place:  
 Flag EC Required: U  
 RFR Notation:  
 Gpa Type ID: 5  
 Clnup Doc: N  
 Awp Catalyst Yn:  
 Flag Prop Not Enrld: Y

Vacant Housing:  
 Vacant Housing Pct:  
 Total Unemployed:  
 Unemployed Pct:  
 Radius:  
 Actvy Funded:  
 Redev Lvrgd Srcs:  
 AA Amt Funding:  
 Flag Clnup Trmt Tech: U  
 Excavation Disposal:  
 Extrctn of Cntmnts:  
 Removal of Mats:  
 Rdctn of Cntmnts:  
 Clnup of Structures:  
 Env EC Required: U  
 Flag EC Cover Tech:  
 Flag EC Security:  
 Flag EC Immblztn:  
 Flag EC Eng Barriers:  
 Flag EC Other:  
 Env IC in Place:  
 Env EC in Place:  
 Env Clnup Jobs:  
 Sect 128 A State Trbl:  
 Multipurpose:  
 Clnup Cst Shr Amt:  
 RLF Loan Amount:  
 RLF Ln Cst Shr Amt:  
 Pro Income Amt:  
 Dt RLF Loan Signed:  
 Repayment Period:  
 Interest Rate:  
 RLF Subgrant Amt:  
 Cost Share Amt:  
 Env Pro Income Amt:  
 Dt RLF Sbgrnt Signd:  
 Clnup Actvy Funded:  
 Below Poverty:  
 Below Poverty Pct:  
 Median Income:  
 Low Income:  
 Low Income Pct:

Redev Fund Entity:  
 Gpa Type Desc: Cleanup Activity  
 AA Actvy Funded:  
 AA Source of Funding:  
 Clnup Trmt Tech Info:  
 EC Data Address:  
 EC Addl Info:  
 Env IC Data Address:  
 Other Forms of Doc:  
 IC Addl Info:  
 Highlights:

Former beer bottling facility. Local CDC interested in redeveloping structure for affordable housing. Limited Phase II, Asbestos Survey and Lead Survey were conducted, indicating the presence of contaminants needing cleanup.

Property Alias: 006-30-066  
 Ctmnt Found: Asbestos Lead PAHs VOCs  
 Ctmnt Cleanedup:  
 Ctmnt Rec:

Media Affected:  
 Building Materials Air Soil

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Cleanups In My Community (CIMC)**

<b>Grant ID:</b>	69605275				<b>ASMT Cntrl Sub :</b>	
<b>Grant Type:</b>	Assessment				<b>Cleanup Cntrl Sub :</b>	
<b>EPA Region:</b>	05				<b>ASMT Asbestos :</b>	Y
<b>Ownership Entity:</b>	Private				<b>Cleanup Asbestos :</b>	
<b>Latitude Measure:</b>	41.46915201631802				<b>ASMT PcbS :</b>	
<b>Longitude Measure:</b>	-81.73121500840932				<b>Cleanup PcbS :</b>	
<b>Flag Cleanup Req'd:</b>	Y				<b>ASMT VocS :</b>	Y
<b>Flag IC Required:</b>	U				<b>Cleanup VocS :</b>	
<b>StcNtrbg:</b>					<b>ASMT Lead :</b>	Y
<b>Property Size:</b>	1.21				<b>Cleanup Lead :</b>	
<b>Flag IC in Place:</b>					<b>ASMT Oth Metal :</b>	
<b>IC in Place Date:</b>					<b>Cleanup Oth Metal :</b>	
<b>Prop Cntrl :</b>					<b>ASMT PahS :</b>	Y
<b>Gov Cntrl :</b>					<b>Cleanup PahS :</b>	
<b>Permit Tools :</b>					<b>ASMT Oth Cont:</b>	
<b>Info DevICes :</b>					<b>Cleanup Oth Cont:</b>	
<b>Prop Fnding Type Cd:</b>	Hazardous & Petroleum				<b>ASMT Air :</b>	
<b>Ownshp Changed :</b>					<b>Cleanup Air :</b>	
<b>Sflp Factor :</b>					<b>ASMT Drk Wat:</b>	
<b>Source Mapscale No:</b>					<b>Cleanup Drk Wat:</b>	
<b>Past Cml Acres:</b>					<b>ASMT Grd Water:</b>	
<b>Future Cml Acres:</b>					<b>Cleanup Grd Water:</b>	
<b>Past Grnspc Acres:</b>					<b>ASMT Sediments :</b>	
<b>Future Grnspc Acres:</b>					<b>Cleanup Sediments :</b>	
<b>Past Acres:</b>	1.21				<b>ASMT Soil :</b>	Y
<b>Future Acres:</b>					<b>Cleanup Soil :</b>	
<b>Past Res Acres:</b>					<b>ASMT Srf Water :</b>	
<b>Future Res Acres:</b>					<b>Cleanup Srf Water :</b>	
<b>St Enrollment Dt:</b>					<b>Other Media :</b>	
<b>St Enrollment ID:</b>					<b>Unknown Media :</b>	
<b>St NFA Dt:</b>					<b>Ready For Reuse :</b>	N
<b>Assess Petrol Prod :</b>					<b>Assess Amount:</b>	12550
<b>Cleanup Petrol Prod :</b>					<b>Assess Fnd Ent Nm:</b>	EPA
<b>Assess Start Dt:</b>	04/06/2020				<b>Photo Available :</b>	
<b>Assess Cmpltn Dt:</b>	05/15/2020				<b>Video Available :</b>	
<b>Cleanup Start Dt:</b>					<b>Cleanup Acres:</b>	
<b>Cleanup Cmpltn Dt:</b>					<b>Cleanup Amount:</b>	
<b>Redev Start Dt:</b>					<b>Redev Acres:</b>	
<b>Redev Cleanup Jobs:</b>					<b>Redev Amount:</b>	
<b>Grant Recipient Nm:</b>		Cuyahoga County Land Reutilization Corp				
<b>PropertyNm:</b>		Pilsner Square 6605 Clark				
<b>Address:</b>		6605 Clark Ave.				
<b>City:</b>		CLEVELAND				
<b>State Code:</b>		OH				
<b>Zip Code:</b>		44102				
<b>Local Parcel No:</b>		006-30-066				
<b>Current Owner:</b>						
<b>IC Data Address:</b>						
<b>Horizontal Collection Method:</b>						
<b>Reference Point:</b>						
<b>Horizontal Reference Datum:</b>						
<b>Other Description:</b>						
<b>Other Desc Cleaned Up:</b>						
<b>Assess Type:</b>		Phase II Environmental Assessment				
<b>Assess Fund Entity:</b>		US EPA - Brownfields Assessment Cooperative Agreement				
<b>Cleanup Funding EntityNm:</b>						
<b>Cleanup Fund Entity:</b>						
<b>Redev Funding Entity Nm:</b>						
<b>Desc Hist:</b>						
<b>Accmplisht Cnt Flag:</b>	Y				<b>Vacant Housing:</b>	
<b>Coop Agreement No:</b>	00E02732				<b>Vacant Housing Pct:</b>	
<b>Past Mltistry Acres:</b>					<b>Total Unemployed:</b>	
<b>Ftr Multistory Acres:</b>					<b>Unemployed Pct:</b>	
<b>Assess Cadmium :</b>					<b>Radius:</b>	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Clnup Cadmium :					Actvy Funded:	
Assess Chromium :					Redev Lvrgd Srcs:	
Clnup Chromium :					AA Amt Funding:	
Assess Copper :					Flag Clnup Trmt Tech:	U
Clnup Copper :					Excavation Disposal:	
Assess Iron :					Extrctn of Cntmnts:	
Clnup Iron :					Removal of Mats:	
Assess Nickel :					Rdctn of Cntmnts:	
Clnup Nickel :					Clnup of Structures:	
Assess Selenium :					Env EC Required:	U
Clnup Selenium :					Flag EC Cover Tech:	
Assess Mercury :					Flag EC Security:	
Clnup Mercury :					Flag EC Immblyztn:	
Assess ArsenIC :					Flag EC Eng Barriers:	
Clnup ArsenIC :					Flag EC Other:	
Assess Bldg Mats :	Y				Env IC in Place:	
Clnup Bldg Mats :					Env EC in Place:	
Assess oorair :	Y				Env Clnup Jobs:	
Clnup oorair :					Sect 128 A State Trbl:	
Assess None :					Multipurpose:	
Clnup None :					Clnup Cst Shr Amt:	
Assess Pesticides :					RLF Loan Amount:	
Clnup Pesticides :					RLF Ln Cst Shr Amt:	
Assess Unknown :					Pro Income Amt:	
Clnup Unknown :					Dt RLF Loan Signed:	
Assess Svocs :					Repayment Period:	
Clnup Svocs :					Interest Rate:	
Clnup Unkn Media :					RLF Subgrant Amt:	
Redev Cmpltn Date:					Cost Share Amt:	
Pro Code:	BF				Env Pro Income Amt:	
FCA Fy:	FY22				Dt RLF Sbgrnt Signd:	
Flag EC in Place:					Clnup Actvy Funded:	
Flag EC Required:	U				Below Poverty:	
RFR Notation:					Below Poverty Pct:	
Gpa Type ID:	2				Median Income:	
Clnup Doc:					Low Income:	
Awp Catalyst Yn:					Low Income Pct:	
Flag Prop Not Enrld:	Y					
Redev Fund Entity:						
Gpa Type Desc:		Phase II Environmental Assessment				
AA Actvy Funded:		Phase II Environmental Assessment				
AA Source of Funding:		Private/Other Funding				
Clnup Trmt Tech Info:						
EC Data Address:						
EC Addl Info:						
Env IC Data Address:						
Other Forms of Doc:						
IC Addl Info:						
Highlights:		Former beer bottling facility. Local CDC interested in redeveloping structure for affordable housing. Limited Phase II, Asbestos Survey and Lead Survey were conducted, indicating the presence of contaminants needing cleanup.				
Property Alias:		006-30-066				
Ctmnt Found:		Asbestos Lead PAHs VOCs				
Ctmnt Cleanedup:						
Ctmnt Rec:						
Media Affected:						
		Building Materials Air Soil				

**Cleanups In My Community (CIMC)**

Grant ID:	69605275	ASMT Cntrl Sub :	
Grant Type:	Assessment	Cleanup Cntrl Sub :	
EPA Region:	05	ASMT Asbestos :	Y
Ownership Entity:	Private	Cleanup Asbestos :	
Latitude Measure:	41.46915201631802	ASMT Pcb :s	
Longitude Measure:	-81.73121500840932	Cleanup Pcb :s	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Flag Cleanup Req'd:	Y				ASMT Vocs :	Y
Flag IC Required:	U				Cleanup Vocs :	
Stcntrbg:					ASMT Lead :	Y
Property Size:	1.21				Cleanup Lead :	
Flag IC in Place:					ASMT Oth Metal :	
IC in Place Date:					Cleanup Oth Metal :	
Prop Cntrl :					ASMT Pahs :	Y
Gov Cntrl :					Cleanup Pahs :	
Permit Tools :					ASMT Oth Cont:	
Info DevICes :					Cleanup Oth Cont:	
Prop Fnding Type Cd:	Hazardous & Petroleum				ASMT Air :	
Ownshp Changed :					Cleanup Air :	
Sfllp Factor :					ASMT Drk Wat:	
Source Mapscale No:					Cleanup Drk Wat:	
Past Cml Acres:					ASMT Grd Water:	
Future Cml Acres:					Cleanup Grd Water:	
Past Grnspc Acres:					ASMT Sediments :	
Future Grnspc Acres:					Cleanup Sediments :	
Past Acres:	1.21				ASMT Soil :	Y
Future Acres:					Cleanup Soil :	
Past Res Acres:					ASMT Srf Water :	
Future Res Acres:					Cleanup Srf Water :	
St Enrollment Dt:					Other Media :	
St Enrollment ID:					Unknown Media :	
St NFA Dt:					Ready For Reuse :	N
Assess Petrol Prod :					Assess Amount:	1700
Cleanup Petrol Prod :					Assess Fnd Ent Nm:	Detroit Shoreway CDC
Assess Start Dt:	04/06/2020				Photo Available :	
Assess Cmpltn Dt:	05/15/2020				Video Available :	
Cleanup Start Dt:					Cleanup Acres:	
Cleanup Cmpltn Dt:					Cleanup Amount:	
Redev Start Dt:					Redev Acres:	
Redev Cleanup Jobs:					Redev Amount:	
Grant Recipient Nm:		Cuyahoga County Land Reutilization Corp				
PropertyNm:		Pilsner Square 6605 Clark				
Address:		6605 Clark Ave.				
City:		CLEVELAND				
State Code:		OH				
Zip Code:		44102				
Local Parcel No:		006-30-066				
Current Owner:						
IC Data Address:						
Horizontal Collection Method:						
Reference Point:						
Horizontal Reference Datum:						
Other Description:						
Other Desc Cleaned Up:						
Assess Type:		Phase II Environmental Assessment				
Assess Fund Entity:		Private/Other Funding				
Cleanup Funding EntityNm:						
Cleanup Fund Entity:						
Redev Funding Entity Nm:						
Desc Hist:						
Accmplisht Cnt Flag:	Y				Vacant Housing:	
Coop Agreement No:	00E02732				Vacant Housing Pct:	
Past Mltistry Acres:					Total Unemployed:	
Ftr Multistory Acres:					Unemployed Pct:	
Assess Cadmium :					Radius:	
Clnup Cadmium :					Actvy Funded:	
Assess Chromium :					Redev Lvrgd Srcs:	
Clnup Chromium :					AA Amt Funding:	
Assess Copper :					Flag Clnup Trmt Tech:	U
Clnup Copper :					Excavation Disposal:	
Assess Iron :					Extrctn of Cntmnts:	
Clnup Iron :					Removal of Mats:	
Assess Nickel :					Rdctn of Cntmnts:	
Clnup Nickel :					Clnup of Structures:	
Assess Selenium :					Env EC Required:	U

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Clnup Selenium :					Flag EC Cover Tech:	
Assess Mercury :					Flag EC Security:	
Clnup Mercury :					Flag EC Immblyztn:	
Assess ArsenIC :					Flag EC Eng Barriers:	
Clnup ArsenIC :					Flag EC Other:	
Assess Bldg Mats :	Y				Env IC in Place:	
Clnup Bldg Mats :					Env EC in Place:	
Assess oorair :	Y				Env Clnup Jobs:	
Clnup oorair :					Sect 128 A State Trbl:	
Assess None :					Multipurpose:	
Clnup None :					Clnup Cst Shr Amt:	
Assess Pesticides :					RLF Loan Amount:	
Clnup Pesticides :					RLF Ln Cst Shr Amt:	
Assess Unknown :					Pro Income Amt:	
Clnup Unknown :					Dt RLF Loan Signed:	
Assess Svocs :					Repayment Period:	
Clnup Svocs :					Interest Rate:	
Clnup Unkn Media :					RLF Subgrant Amt:	
Redev Cmpltn Date:					Cost Share Amt:	
Pro Code:	BF				Env Pro Income Amt:	
FCA Fy:	FY22				Dt RLF Sbrgrnt Signd:	
Flag EC in Place:					Clnup Actvy Funded:	
Flag EC Required:	U				Below Poverty:	
RFR Notation:					Below Poverty Pct:	
Gpa Type ID:	2				Median Income:	
Clnup Doc:					Low Income:	
Awp Catalyst Yn:					Low Income Pct:	
Flag Prop Not Enrld:	Y					
Redev Fund Entity:						
Gpa Type Desc:		Phase II Environmental Assessment				
AA Actvy Funded:		Supplemental Assessment				
AA Source of Funding:		Private/Other Funding				
Clnup Trmt Tech Info:						
EC Data Address:						
EC Addl Info:						
Env IC Data Address:						
Other Forms of Doc:						
IC Addl Info:						
Highlights:		Former beer bottling facility. Local CDC interested in redeveloping structure for affordable housing. Limited Phase II, Asbestos Survey and Lead Survey were conducted, indicating the presence of contaminants needing cleanup.				
Property Alias:		006-30-066				
Ctmnt Found:		Asbestos Lead PAHs VOCs				
Ctmnt Cleanedup:						
Ctmnt Rec:						

**Media Affected:**

Building Materials Air Soil

**Cleanups In My Community (CIMC)**

Grant ID:	69605275	ASMT Cntrl Sub :	
Grant Type:	Assessment	Cleanup Cntrl Sub :	
EPA Region:	05	ASMT Asbestos :	Y
Ownership Entity:	Private	Cleanup Asbestos :	
Latitude Measure:	41.46915201631802	ASMT Pchs :	
Longitude Measure:	-81.73121500840932	Cleanup Pchs :	
Flag Cleanup Reqd:	Y	ASMT Vocs :	Y
Flag IC Required:	U	Cleanup Vocs :	
Stcntrbg:		ASMT Lead :	Y
Property Size:	1.21	Cleanup Lead :	
Flag IC in Place:		ASMT Oth Metal :	
IC in Place Date:		Cleanup Oth Metal :	
Prop Cntrl :		ASMT Pahs :	Y
Gov Cntrl :		Cleanup Pahs :	
Permit Tools :		ASMT Oth Cont:	
Info DevICes :		Cleanup Oth Cont:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Prop Fnding Type Cd:</b> Hazardous & Petroleum <b>Ownshp Changed :</b> <b>Sflfp Factor :</b> <b>Source Mapscale No:</b> <b>Past Cml Acres:</b> <b>Future Cml Acres:</b> <b>Past Grnspc Acres:</b> <b>Future Grnspc Acres:</b> <b>Past Acres:</b> 1.21 <b>Future Acres:</b> <b>Past Res Acres:</b> <b>Future Res Acres:</b> <b>St Enrollment Dt:</b> <b>St Enrollment ID:</b> <b>St NFA Dt:</b> <b>Assess Petrol Prod :</b> <b>Cleanup Petrol Prod :</b> <b>Assess Start Dt:</b> 04/06/2020 <b>Assess Cmpltn Dt:</b> 05/15/2020 <b>Cleanup Start Dt:</b> <b>Cleanup Cmpltn Dt:</b> <b>Redev Start Dt:</b> <b>Redev Cleanup Jobs:</b> <b>Grant Recipient Nm:</b> <b>PropertyNm:</b> <b>Address:</b> <b>City:</b> <b>State Code:</b> <b>Zip Code:</b> <b>Local Parcel No:</b> <b>Current Owner:</b> <b>IC Data Address:</b> <b>Horizontal Collection Method:</b> <b>Reference Point:</b> <b>Horizontal Reference Datum:</b> <b>Other Description:</b> <b>Other Desc Cleaned Up:</b> <b>Assess Type:</b> <b>Assess Fund Entity:</b> <b>Cleanup Funding EntityNm:</b> <b>Cleanup Fund Entity:</b> <b>Redev Funding Entity Nm:</b> <b>Desc Hist:</b>					<b>ASMT Air :</b> <b>Cleanup Air :</b> <b>ASMT Drk Wat:</b> <b>Cleanup Drk Wat:</b> <b>ASMT Grd Water:</b> <b>Cleanup Grd Water:</b> <b>ASMT Sediments :</b> <b>Cleanup Sediments :</b> <b>ASMT Soil :</b> Y <b>Cleanup Soil :</b> <b>ASMT Srf Water :</b> <b>Cleanup Srf Water :</b> <b>Other Media :</b> <b>Unknown Media :</b> <b>Ready For Reuse :</b> N <b>Assess Amount:</b> 2450 <b>Assess Fnd Ent Nm:</b> EPA <b>Photo Available :</b> <b>Video Available :</b> <b>Cleanup Acres:</b> <b>Cleanup Amount:</b> <b>Redev Acres:</b> <b>Redev Amount:</b>  Cuyahoga County Land Reutilization Corp Pilsner Square 6605 Clark 6605 Clark Ave. CLEVELAND OH 44102 006-30-066  Supplemental Assessment US EPA - Brownfields Assessment Cooperative Agreement	
<b>Accmplisht Cnt Flag:</b> N <b>Coop Agreement No:</b> 00E02732 <b>Past Mltistry Acres:</b> <b>Ftr Multistory Acres:</b> <b>Assess Cadmium :</b> <b>Clnup Cadmium :</b> <b>Assess Chromium :</b> <b>Clnup Chromium :</b> <b>Assess Copper :</b> <b>Clnup Copper :</b> <b>Assess Iron :</b> <b>Clnup Iron :</b> <b>Assess Nickel :</b> <b>Clnup Nickel :</b> <b>Assess Selenium :</b> <b>Clnup Selenium :</b> <b>Assess Mercury :</b> <b>Clnup Mercury :</b> <b>Assess ArsenIC :</b> <b>Clnup ArsenIC :</b> <b>Assess Bldg Mats :</b> Y <b>Clnup Bldg Mats :</b> <b>Assess oorair :</b> Y <b>Clnup oorair :</b> <b>Assess None :</b>					<b>Vacant Housing:</b> <b>Vacant Housing Pct:</b> <b>Total Unemployed:</b> <b>Unemployed Pct:</b> <b>Radius:</b> <b>Actvy Funded:</b> <b>Redev Lvrgd Srcs:</b> <b>AA Amt Funding:</b> <b>Flag Clnup Trmt Tech:</b> U <b>Excavation Disposal:</b> <b>Extrctn of Cntmnts:</b> <b>Removal of Mats:</b> <b>Rdctn of Cntmnts:</b> <b>Clnup of Structures:</b> <b>Env EC Required:</b> U <b>Flag EC Cover Tech:</b> <b>Flag EC Security:</b> <b>Flag EC Immblyztn:</b> <b>Flag EC Eng Barriers:</b> <b>Flag EC Other:</b> <b>Env IC in Place:</b> <b>Env EC in Place:</b> <b>Env Clnup Jobs:</b> <b>Sect 128 A State Trbl:</b> <b>Multipurpose:</b>	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Clnup None :</b>					<b>Clnup Cst Shr Amt:</b>	
<b>Assess Pesticides :</b>					<b>RLF Loan Amount:</b>	
<b>Clnup Pesticides :</b>					<b>RLF Ln Cst Shr Amt:</b>	
<b>Assess Unknown :</b>					<b>Pro Income Amt:</b>	
<b>Clnup Unknown :</b>					<b>Dt RLF Loan Signed:</b>	
<b>Assess Svocs :</b>					<b>Repayment Period:</b>	
<b>Clnup Svocs :</b>					<b>Interest Rate:</b>	
<b>Clnup Unkn Media :</b>					<b>RLF Subgrant Amt:</b>	
<b>Redev Crmplt Date:</b>					<b>Cost Share Amt:</b>	
<b>Pro Code:</b>	BF				<b>Env Pro Income Amt:</b>	
<b>FCA Fy:</b>					<b>Dt RLF Sbrgrnt Signd:</b>	
<b>Flag EC in Place:</b>					<b>Clnup Actvy Funded:</b>	
<b>Flag EC Required:</b>	U				<b>Below Poverty:</b>	
<b>RFR Notation:</b>					<b>Below Poverty Pct:</b>	
<b>Gpa Type ID:</b>	12				<b>Median Income:</b>	
<b>Clnup Doc:</b>					<b>Low Income:</b>	
<b>Awp Catalyst Yn:</b>					<b>Low Income Pct:</b>	
<b>Flag Prop Not Enrld:</b>	Y					
<b>Redev Fund Entity:</b>						
<b>Gpa Type Desc:</b>		Supplemental Assessment				
<b>AA Actvy Funded:</b>		Phase II Environmental Assessment				
<b>AA Source of Funding:</b>						
<b>Clnup Trmt Tech Info:</b>						
<b>EC Data Address:</b>						
<b>EC Addl Info:</b>						
<b>Env IC Data Address:</b>						
<b>Other Forms of Doc:</b>						
<b>IC Addl Info:</b>						
<b>Highlights:</b>		Former beer bottling facility. Local CDC interested in redeveloping structure for affordable housing. Limited Phase II, Asbestos Survey and Lead Survey were conducted, indicating the presence of contaminants needing cleanup.				
<b>Property Alias:</b>		006-30-066				
<b>Ctmnt Found:</b>		Asbestos Lead PAHs VOCs				
<b>Ctmnt Cleanedup:</b>						
<b>Ctmnt Rec:</b>						
<b>Media Affected:</b>						
		Building Materials Air Soil				

<a href="#">18</a>	1 of 2	SSW	0.24 / 1,260.42	730.76 / 31	ACTION AUTO SERVICE 7050 DENNISON AVE CLEVELAND OH 44114	LUST
<b>Release No:</b>	18003232 - N00001				<b>Release No (Map):</b>	18003232-N00001
<b>Facility Name:</b>	ACTION AUTO SERVICE				<b>Fac Name (Map):</b>	ACTION AUTO SERVICE
<b>Facility Address:</b>	7050 DENNISON AVE				<b>Fac Address (Map):</b>	7050 DENNISON AVE
<b>Facility City:</b>	CLEVELAND				<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio				<b>Fac ZIP (Map):</b>	44114
<b>Facility ZIP:</b>	44114				<b>County (Map):</b>	
<b>County:</b>	Cuyahoga				<b>Latitude (Map):</b>	41.46203
<b>Facility Latitude:</b>	41.462168				<b>Longitude (Map):</b>	-81.73655
<b>Facility Longitude:</b>	-81.737241				<b>Fac ID (BUSTR2):</b>	18003232
<b>Release No (OTTER):</b>	18003232-N00001				<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	ACTION AUTO SERVICE				<b>Fac Name (BUSTR2):</b>	ACTION AUTO SERVICE
<b>FacAddress (OTTER):</b>	7050 DENNISON AVE				<b>Address (BUSTR2):</b>	7050 DENNISON AVE
<b>Fac City (OTTER):</b>	CLEVELAND				<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>					<b>ZIP (BUSTR2):</b>	44114
<b>Fac ZIP (OTTER):</b>	44114				<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga				<b>Latitude (BUSTR2):</b>	41.46217
<b>Latitude (OTTER):</b>					<b>Longitude (BUSTR2):</b>	-81.73724
<b>Longitude (OTTER):</b>					<b>Release No (BUSTR):</b>	18003232-N00001
<b>Fac Name (BUSTR):</b>	ACTION AUTO SERVICE				<b>Fac Addr (BUSTR):</b>	7050 DENNISON AVE
<b>Fac City (BUSTR):</b>	CLEVELAND				<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44114				<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.462168				<b>Longitude (BUSTR):</b>	-81.737241
<b>Facility (OTTER):</b>	18003232 (ACTION AUTO SERVICE)					
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory:					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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BUSTR - LUST Locations (BUSTR/OG RIP) (BUSTR2)

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Active	<b>Date Last Change:</b>	7/11/2012
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	08/10/2022
<b>FR Status:</b>	T1S: Tier 1 Source Investigation	<b>Priority:</b>	2
<b>Release Date:</b>	12/15/1995	<b>Class:</b>	C
<b>Class Description:</b>	The RP is non-viable		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	185042800.0	<b>Date Reported:</b>	12/15/1995
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	ACTION AUTO SERVICE
<b>Facility:</b>	18003232 (ACTION AUTO SERVICE)		
<b>Facility Link:</b>	https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#8209		
<b>Release Link:</b>	https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32914		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73655
<b>FR Status:</b>	T1S: Tier 1 Source Investigation	<b>Match:</b>	S98
<b>Label:</b>	18003232 - N00001 ACTION AUTO SERVICE	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18003232 - N00001	<b>Facility Z:</b>	44114
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	7050 Denison Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73655
<b>ZIP Out:</b>	44102-5247	<b>Y:</b>	41.46203
<b>Lat:</b>	41.46203		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	11777	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18003232	<b>Address:</b>	7050 DENNISON AVE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>County:</b>	CUY
<b>Status:</b>	T1S: Tier 1 Source Investigation	<b>ZIP:</b>	44114
<b>Facility Status:</b>	Active	<b>Latitude DD Begin:</b>	41.46217
<b>Data Date:</b>	2014-11-10 14:15:06.177	<b>Longitude DD Begin:</b>	-81.73724
<b>Current Fac Name:</b>	ACTION AUTO SERVICE		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	1110	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	185042800.0	<b>LTF:</b>	1 SUS/CON from regulated UST
<b>Last Review Date:</b>	8/10/2022	<b>Rating:</b>	16
<b>Release Date:</b>	12/15/1995	<b>Facility Name:</b>	ACTION AUTO SERVICE
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	7050 DENNISON AVE
<b>Last Update Date:</b>	8/10/2022	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	T1S: Tier 1 Source Investigation	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	7/11/2012	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Required	<b>Facility ZIP:</b>	44114
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.462168
<b>Class:</b>	C	<b>Facility Longitude:</b>	-81.737241
<b>Rules:</b>	2017		

<a href="#">18</a>	2 of 2	SSW	0.24 / 1,260.42	730.76 / 31	ACTION AUTO SERVICE 7050 DENNISON AVE CLEVELAND OH 44114	UST
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<b>Facility (OTTER):</b>	<b>Facility No (Map):</b>	18003232
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>Fac No (OTTER):</b>	18003232				<b>Fac Name (Map):</b>	ACTION AUTO SERVICE
<b>Fac Name (OTTER):</b>	ACTION AUTO SERVICE				<b>Address (Map):</b>	7050 DENNISON AVE
<b>Address (OTTER):</b>	7050 DENNISON AVE				<b>City (Map):</b>	CLEVELAND
<b>City (OTTER):</b>	CLEVELAND				<b>State (Map):</b>	Ohio
<b>State (OTTER):</b>					<b>Zip (Map):</b>	44114
<b>Zip (OTTER):</b>	44114				<b>County (Map):</b>	Cuyahoga
<b>County (OTTER):</b>	Cuyahoga				<b>Latitude (Map):</b>	41.462168
<b>Latitude (OTTER):</b>					<b>Longitude (Map):</b>	-81.737241
<b>Longitude (OTTER):</b>					<b>Fac ID (BUSTR2):</b>	18003232
<b>Fac No (BUSTR):</b>	18003232				<b>Fac Name (BUSTR2):</b>	ACTION AUTO SERVICE
<b>Fac Name (BUSTR):</b>	ACTION AUTO SERVICE				<b>Address (BUSTR2):</b>	7050 DENNISON AVE
<b>Address (BUSTR):</b>	7050 DENNISON AVE				<b>City (BUSTR2):</b>	CLEVELAND
<b>City (BUSTR):</b>	CLEVELAND				<b>Zip (BUSTR2):</b>	44114
<b>State (BUSTR):</b>	Ohio				<b>Latitude (BUSTR2):</b>	41.46217
<b>Zip (BUSTR):</b>	44114				<b>Longitude (BUSTR2):</b>	-81.73724
<b>County (BUSTR2):</b>	CUY					
<b>County (BUSTR):</b>	Cuyahoga					
<b>Latitude (BUSTR):</b>	41.46203					
<b>Longitude (BUSTR):</b>	-81.73655					
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER) Search; Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks; BUSTR: All Facility Tanks; Map Services Directory: BUSTR - UST Locations (BUSTR/OGRIP)					

#### Ohio Tank Tracking & Environmental Regulations (OTTER) Search

<b>Old Incident ID:</b>	185042800.0	<b>Date Reported:</b>	12/15/1995
<b>Tank Status:</b>	No Tanks Available	<b>Own Business Name:</b>	ACTION AUTO SERVICE
<b>Facility URL:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#8209">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#8209</a>		
<b>Release No URL:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32914">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32914</a>		

#### Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks

<b>Tank No:</b>	T00003	<b>Date Last Used:</b>	03/02/1995
<b>Status:</b>	REM - Removed	<b>UST Capacity:</b>	1000
<b>UST:</b>	UST	<b>Tank Content:</b>	Gasoline
<b>Regulated:</b>	YES	<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Gas Station	<b>UST Configurations:</b>	
<b>Installation Date:</b>		<b>CAS No:</b>	8006-61-9
<b>Date Removed:</b>	03/02/1995	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>			
<b>Owner Address:</b>			
<b>Owner City:</b>			
<b>Owner State:</b>			
<b>Owner Zip:</b>			
<b>Construction:</b>	BM - Bare Metal		
<b>Construction Comments:</b>	Steel		
<b>Overfill Prevention:</b>			
<b>Overfill Prev Comments:</b>	OverFill Spill: No		
<b>Prmry Release Detection:</b>	AMO - Alternative Method (Other, explain)		
<b>2ndry Release Detection:</b>			
<b>Release Detect Comments:</b>	RDTank: / RDLine:		
<b>Spill Prevention Manholes:</b>	NP - None Present		
<b>Spill Prev Manhole Comment:</b>	No		
<b>Corrosion Protections:</b>			
<b>Corrosion Protect Comments:</b>			
<b>Piping Configuration:</b>			
<b>Piping Config Comment:</b>			
<b>Piping Styles:</b>	NA - Not Applicable		
<b>Piping Construction:</b>	BM - Bare Metal		
<b>Piping Construct Comments:</b>	Bare Steel		
<b>Piping Corrosion Protection:</b>	OTH - Other (explain)		
<b>Piping Corr Protect Comments:</b>			
<b>Piping Release Detection:</b>	OTH - Other(explain)		
<b>Piping Rel Detect Comments:</b>			
<b>Comments:</b>			

<b>Tank No:</b>	T00004				<b>Date Last Used:</b>	03/02/1995
<b>Status:</b>	REM - Removed				<b>UST Capacity:</b>	1000
<b>UST:</b>	UST				<b>Tank Content:</b>	Gasoline
<b>Regulated:</b>	YES				<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Gas Station				<b>UST Configurations:</b>	
<b>Installation Date:</b>					<b>CAS No:</b>	8006-61-9
<b>Date Removed:</b>	03/02/1995				<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>					<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>						
<b>Owner Address:</b>						
<b>Owner City:</b>						
<b>Owner State:</b>						
<b>Owner Zip:</b>						
<b>Construction:</b>	BM - Bare Metal					
<b>Construction Comments:</b>	Steel					
<b>Overfill Prevention:</b>						
<b>Overfill Prev Comments:</b>	OverFill Spill: No					
<b>Prmry Release Detection:</b>	AMO - Alternative Method (Other, explain)					
<b>2ndry Release Detection:</b>						
<b>Release Detect Comments:</b>	RDTank: / RDLine:					
<b>Spill Prevention Manholes:</b>	NP - None Present					
<b>Spill Prev Manhole Comment:</b>	No					
<b>Corrosion Protections:</b>						
<b>Corrosion Protect Comments:</b>						
<b>Piping Configuration:</b>						
<b>Piping Config Comment:</b>						
<b>Piping Styles:</b>	NA - Not Applicable					
<b>Piping Construction:</b>	BM - Bare Metal					
<b>Piping Construct Comments:</b>	Bare Steel					
<b>Piping Corrosion Protection:</b>	OTH - Other (explain)					
<b>Piping Corr Protect Comments:</b>						
<b>Piping Release Detection:</b>	OTH - Other(explain)					
<b>Piping Rel Detect Comments:</b>						
<b>Comments:</b>						

<b>Tank No:</b>	T00001				<b>Date Last Used:</b>	03/02/1995
<b>Status:</b>	REM - Removed				<b>UST Capacity:</b>	15000
<b>UST:</b>	UST				<b>Tank Content:</b>	Gasoline
<b>Regulated:</b>	YES				<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Gas Station				<b>UST Configurations:</b>	
<b>Installation Date:</b>	01/01/1950				<b>CAS No:</b>	8006-61-9
<b>Date Removed:</b>	03/02/1995				<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>					<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>						
<b>Owner Address:</b>						
<b>Owner City:</b>						
<b>Owner State:</b>						
<b>Owner Zip:</b>						
<b>Construction:</b>	BM - Bare Metal					
<b>Construction Comments:</b>	Steel					
<b>Overfill Prevention:</b>						
<b>Overfill Prev Comments:</b>	OverFill Spill: No					
<b>Prmry Release Detection:</b>	AMO - Alternative Method (Other, explain)					
<b>2ndry Release Detection:</b>						
<b>Release Detect Comments:</b>	RDTank: / RDLine:					
<b>Spill Prevention Manholes:</b>	NP - None Present					
<b>Spill Prev Manhole Comment:</b>	No					
<b>Corrosion Protections:</b>						
<b>Corrosion Protect Comments:</b>						
<b>Piping Configuration:</b>						
<b>Piping Config Comment:</b>						
<b>Piping Styles:</b>	NA - Not Applicable					
<b>Piping Construction:</b>	BM - Bare Metal					
<b>Piping Construct Comments:</b>	Bare Steel					
<b>Piping Corrosion Protection:</b>	OTH - Other (explain)					
<b>Piping Corr Protect Comments:</b>						
<b>Piping Release Detection:</b>	OTH - Other(explain)					
<b>Piping Rel Detect Comments:</b>						
<b>Comments:</b>						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>Tank No:</b>	T00002	<b>Date Last Used:</b>	03/02/1995
<b>Status:</b>	REM - Removed	<b>UST Capacity:</b>	500
<b>UST:</b>	UST	<b>Tank Content:</b>	Gasoline
<b>Regulated:</b>	YES	<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Gas Station	<b>UST Configurations:</b>	
<b>Installation Date:</b>		<b>CAS No:</b>	8006-61-9
<b>Date Removed:</b>	03/02/1995	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>			
<b>Owner Address:</b>			
<b>Owner City:</b>			
<b>Owner State:</b>			
<b>Owner Zip:</b>			
<b>Construction:</b>	BM - Bare Metal		
<b>Construction Comments:</b>	Steel		
<b>Overfill Prevention:</b>			
<b>Overfill Prev Comments:</b>	OverFill Spill: No		
<b>Prmry Release Detection:</b>	AMO - Alternative Method (Other, explain)		
<b>2ndry Release Detection:</b>			
<b>Release Detect Comments:</b>	RDTank: / RDLine:		
<b>Spill Prevention Manholes:</b>	NP - None Present		
<b>Spill Prev Manhole Comment:</b>	No		
<b>Corrosion Protections:</b>			
<b>Corrosion Protect Comments:</b>			
<b>Piping Configuration:</b>			
<b>Piping Config Comment:</b>			
<b>Piping Styles:</b>	NA - Not Applicable		
<b>Piping Construction:</b>	BM - Bare Metal		
<b>Piping Construct Comments:</b>	Bare Steel		
<b>Piping Corrosion Protection:</b>	OTH - Other (explain)		
<b>Piping Corr Protect Comments:</b>			
<b>Piping Release Detection:</b>	OTH - Other(explain)		
<b>Piping Rel Detect Comments:</b>			
<b>Comments:</b>			

**BUSTR: All Facility Tanks**

<b>Tank No:</b>	T00004	<b>Address Out:</b>	7050 Denison Ave
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	3/2/1995	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5247
<b>UST Capacity:</b>	1000	<b>Lat:</b>	41.46203
<b>Tank Content:</b>	Gasoline	<b>Lon:</b>	-81.73655
<b>Label:</b>	18003232 ACTION AUTO SERVICE	<b>Match:</b>	S98
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	MAF7
<b>State:</b>	Ohio	<b>LOC CONF:</b>	1
<b>X:</b>			
<b>Y:</b>			

<b>Tank No:</b>	T00002	<b>Address Out:</b>	7050 Denison Ave
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	3/2/1995	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5247
<b>UST Capacity:</b>	500	<b>Lat:</b>	41.46203
<b>Tank Content:</b>	Gasoline	<b>Lon:</b>	-81.73655
<b>Label:</b>	18003232 ACTION AUTO SERVICE	<b>Match:</b>	S98
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	MAF7
<b>State:</b>	Ohio	<b>LOC CONF:</b>	1
<b>X:</b>			
<b>Y:</b>			

<b>Tank No:</b>	T00001	<b>Address Out:</b>	7050 Denison Ave
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	3/2/1995	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5247
<b>UST Capacity:</b>	15000	<b>Lat:</b>	41.46203
<b>Tank Content:</b>	Gasoline	<b>Lon:</b>	-81.73655

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Label:</b>	18003232	ACTION AUTO SERVICE		<b>Match:</b>	S98	
<b>Date Process:</b>	2020/09/24			<b>LOC QUAL:</b>	MAF7	
<b>State:</b>	Ohio			<b>LOC CONF:</b>	1	
<b>X:</b>						
<b>Y:</b>						
<b>Tank No:</b>	T00003			<b>Address Out:</b>	7050 Denison Ave	
<b>Status:</b>	REM - Removed			<b>City Out:</b>	Cleveland	
<b>Date Remove:</b>	3/2/1995			<b>State Out:</b>	OH	
<b>Data Date:</b>	9/21/2020			<b>Zip Out:</b>	44102-5247	
<b>UST Capacity:</b>	1000			<b>Lat:</b>	41.46203	
<b>Tank Content:</b>	Gasoline			<b>Lon:</b>	-81.73655	
<b>Label:</b>	18003232	ACTION AUTO SERVICE		<b>Match:</b>	S98	
<b>Date Process:</b>	2020/09/24			<b>LOC QUAL:</b>	MAF7	
<b>State:</b>	Ohio			<b>LOC CONF:</b>	1	
<b>X:</b>						
<b>Y:</b>						

**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	45526	<b>Facility Name:</b>	ACTION AUTO SERVICE
<b>Facility ID:</b>	18003232	<b>Facility Co:</b>	
<b>Tank ID:</b>	T00002	<b>Address:</b>	7050 DENNISON AVE
<b>Facility Status:</b>	Inactive	<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	03/02/95	<b>Zip:</b>	44114
<b>Inspection Date:</b>		<b>County:</b>	CUY
<b>Status:</b>	REM	<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687	<b>Latitude DD Begin:</b>	41.46217
<b>Capacity:</b>	500	<b>Longitude DD Begin:</b>	-81.73724
<b>Content:</b>	Gasoline		

**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	45525	<b>Facility Name:</b>	ACTION AUTO SERVICE
<b>Facility ID:</b>	18003232	<b>Facility Co:</b>	
<b>Tank ID:</b>	T00001	<b>Address:</b>	7050 DENNISON AVE
<b>Facility Status:</b>	Inactive	<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	03/02/95	<b>Zip:</b>	44114
<b>Inspection Date:</b>		<b>County:</b>	CUY
<b>Status:</b>	REM	<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687	<b>Latitude DD Begin:</b>	41.46217
<b>Capacity:</b>	15000	<b>Longitude DD Begin:</b>	-81.73724
<b>Content:</b>	Gasoline		

**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	45527	<b>Facility Name:</b>	ACTION AUTO SERVICE
<b>Facility ID:</b>	18003232	<b>Facility Co:</b>	
<b>Tank ID:</b>	T00003	<b>Address:</b>	7050 DENNISON AVE
<b>Facility Status:</b>	Inactive	<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	03/02/95	<b>Zip:</b>	44114
<b>Inspection Date:</b>		<b>County:</b>	CUY
<b>Status:</b>	REM	<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687	<b>Latitude DD Begin:</b>	41.46217
<b>Capacity:</b>	1000	<b>Longitude DD Begin:</b>	-81.73724
<b>Content:</b>	Gasoline		

**BUSTR - UST Locations (BUSTR/OGRIP)**

<b>Object ID:</b>	45528	<b>Facility Name:</b>	ACTION AUTO SERVICE
<b>Facility ID:</b>	18003232	<b>Facility Co:</b>	
<b>Tank ID:</b>	T00004	<b>Address:</b>	7050 DENNISON AVE
<b>Facility Status:</b>	Inactive	<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	03/02/95	<b>Zip:</b>	44114

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Inspection Date:</b>				<b>County:</b>	CUY	
<b>Status:</b>	REM			<b>ODoT District:</b>	12	
<b>Data Date:</b>	2014-11-10 14:15:46.687			<b>Latitude DD Begin:</b>	41.46217	
<b>Capacity:</b>	1000			<b>Longitude DD Begin:</b>	-81.73724	
<b>Content:</b>	Gasoline					

[19](#) 1 of 2 SSW 0.25 / 1,299.72 733.74 / 34 DENNISON CARE 6918 DENISON AVE CLEVELAND OH 44102 LUST

<b>Release No:</b>	18009772 - N00001	<b>Release No (Map):</b>	18009772-N00001
<b>Facility Name:</b>	DENNISON CARE	<b>Fac Name (Map):</b>	DENNISON CARE
<b>Facility Address:</b>	6918 DENISON AVE	<b>Fac Address (Map):</b>	6918 DENISON AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	CUY
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.46175
<b>Facility Latitude:</b>	41.461792	<b>Longitude (Map):</b>	-81.73542
<b>Facility Longitude:</b>	-81.736114	<b>Fac ID (BUSTR2):</b>	18009772
<b>Release No (OTTER):</b>	18009772-N00001	<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	DENNISON CARE	<b>Fac Name (BUSTR2):</b>	DENNISON CARE
<b>FacAddress (OTTER):</b>	6918 DENISON AVE	<b>Address (BUSTR2):</b>	6918 DENISON AVE
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>	OH	<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.46179
<b>Latitude (OTTER):</b>	41.461792	<b>Longitude (BUSTR2):</b>	-81.73611
<b>Longitude (OTTER):</b>	-81.736114	<b>Release No (BUSTR):</b>	18009772-N00001
<b>Fac Name (BUSTR):</b>	DENNISON CARE	<b>Fac Addr (BUSTR):</b>	6918 DENISON AVE
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.461792	<b>Longitude (BUSTR):</b>	-81.736114
<b>Facility (OTTER):</b>	18009772 (DENNISON CARE)		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)		

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Active	<b>Date Last Change:</b>	4/20/2015
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	09/08/2022
<b>FR Status:</b>	TR1: T1S Required (Prior SB/MW Installed)	<b>Priority:</b>	2
<b>Release Date:</b>	07/08/1997	<b>Class:</b>	C
<b>Class Description:</b>	The RP is non-viable		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	187065300.0	<b>Date Reported:</b>	7/8/1997
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	DENNISON CARE
<b>Facility:</b>	18009772 (DENNISON CARE)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#8074">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#8074</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33191">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33191</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>	18009772 - N00001 DENNISON CARE	<b>Long:</b>	-81.73542
<b>FR Status:</b>	TR1: T1S Required (Prior SB/MW Installed)	<b>Match:</b>	S80
<b>Label:</b>	18009772 - N00001 DENNISON CARE	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18009772 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	6918 Denison Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73542
<b>ZIP Out:</b>	44102-5245	<b>Y:</b>	41.46175
<b>Lat:</b>	41.46175		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	11851	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18009772	<b>Address:</b>	6918 DENISON AVE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>County:</b>	CUY
<b>Status:</b>	T1S: Tier 1 Source Investigation	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Active	<b>Latitude DD Begin:</b>	41.46179
<b>Data Date:</b>	2014-11-10 14:15:06.177	<b>Longitude DD Begin:</b>	-81.73611
<b>Current Fac Name:</b>	DENNISON CARE		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	10749	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	187065300.0	<b>LTF:</b>	1 SUS/CON from regulated UST
<b>Last Review Date:</b>	9/8/2022	<b>Rating:</b>	26
<b>Release Date:</b>	7/8/1997	<b>Facility Name:</b>	DENNISON CARE
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	6918 DENISON AVE
<b>Last Update Date:</b>	9/8/2022	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	TR1: T1S Required (Prior SB/MW Installed)	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	4/20/2015	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Required	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.461792
<b>Class:</b>	C	<b>Facility Longitude:</b>	-81.736114
<b>Rules:</b>	2017		

<a href="#">19</a>	2 of 2	SSW	0.25 / 1,299.72	733.74 / 34	DENNISON CARE 6918 DENISON AVE CLEVELAND OH 44102	UST
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<b>Facility (OTTER):</b>		<b>Facility No (Map):</b>	18009772
<b>Fac No (OTTER):</b>	18009772	<b>Fac Name (Map):</b>	DENNISON CARE
<b>Fac Name (OTTER):</b>	DENNISON CARE	<b>Address (Map):</b>	6918 DENISON AVE
<b>Address (OTTER):</b>	6918 DENISON AVE	<b>City (Map):</b>	CLEVELAND
<b>City (OTTER):</b>	CLEVELAND	<b>State (Map):</b>	Ohio
<b>State (OTTER):</b>		<b>Zip (Map):</b>	44102
<b>Zip (OTTER):</b>	44102	<b>County (Map):</b>	Cuyahoga
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (Map):</b>	41.461792
<b>Latitude (OTTER):</b>		<b>Longitude (Map):</b>	-81.736114
<b>Longitude (OTTER):</b>		<b>Fac ID (BUSTR2):</b>	18009772
<b>Fac No (BUSTR):</b>	18009772	<b>Fac Name (BUSTR2):</b>	DENNISON CARE
<b>Fac Name (BUSTR):</b>	DENNISON CARE	<b>Address (BUSTR2):</b>	6918 DENISON AVE
<b>Address (BUSTR):</b>	6918 DENISON AVE	<b>City (BUSTR2):</b>	CLEVELAND
<b>City (BUSTR):</b>	CLEVELAND	<b>Zip (BUSTR2):</b>	44102
<b>State (BUSTR):</b>	Ohio	<b>Latitude (BUSTR2):</b>	41.46179
<b>Zip (BUSTR):</b>	44102	<b>Longitude (BUSTR2):</b>	-81.73611
<b>County (BUSTR2):</b>	CUY		
<b>County (BUSTR):</b>	Cuyahoga		
<b>Latitude (BUSTR):</b>	41.46175		
<b>Longitude (BUSTR):</b>	-81.73542		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER) Search; Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks; BUSTR: All Facility Tanks; Map Services Directory: BUSTR - UST Locations (BUSTR/OGRIP)		

**Ohio Tank Tracking & Environmental Regulations (OTTER) Search**

<b>Old Incident ID:</b>	187065300.0	<b>Date Reported:</b>	7/8/1997
<b>Tank Status:</b>	No Tanks Available	<b>Own Business Name:</b>	DENNISON CARE
<b>Facility URL:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#8074">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#8074</a>		
<b>Release No URL:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33191">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33191</a>		

**Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>Tank No:</b>	T00003	<b>Date Last Used:</b>	08/29/1992
<b>Status:</b>	REM - Removed	<b>UST Capacity:</b>	6000
<b>UST:</b>	UST	<b>Tank Content:</b>	Diesel
<b>Regulated:</b>	YES	<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Gas Station	<b>UST Configurations:</b>	
<b>Installation Date:</b>	01/01/1967	<b>CAS No:</b>	68334-30-5
<b>Date Removed:</b>	05/21/1997	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>			
<b>Owner Address:</b>			
<b>Owner City:</b>			
<b>Owner State:</b>			
<b>Owner Zip:</b>			
<b>Construction:</b>	FRP-Fiberglass Reinforced Plastic		
<b>Construction Comments:</b>	Fiberglass Reinforced Plastic		
<b>Overfill Prevention:</b>			
<b>Overfill Prev Comments:</b>	OverFill Spill: No		
<b>Prmry Release Detection:</b>	AMO - Alternative Method (Other, explain)		
<b>2ndry Release Detection:</b>			
<b>Release Detect Comments:</b>	RDTank: / RDLine:		
<b>Spill Prevention Manholes:</b>	NP - None Present		
<b>Spill Prev Manhole Comment:</b>	No		
<b>Corrosion Protections:</b>			
<b>Corrosion Protect Comments:</b>			
<b>Piping Configuration:</b>			
<b>Piping Config Comment:</b>			
<b>Piping Styles:</b>	NA - Not Applicable		
<b>Piping Construction:</b>	OTH - Other (explain)		
<b>Piping Construct Comments:</b>	Unknown		
<b>Piping Corrosion Protection:</b>	OTH - Other (explain)		
<b>Piping Corr Protect Comments:</b>			
<b>Piping Release Detection:</b>	OTH - Other(explain)		
<b>Piping Rel Detect Comments:</b>			
<b>Comments:</b>			

<b>Tank No:</b>	T00001	<b>Date Last Used:</b>	08/29/1992
<b>Status:</b>	REM - Removed	<b>UST Capacity:</b>	8000
<b>UST:</b>	UST	<b>Tank Content:</b>	Gasoline
<b>Regulated:</b>	YES	<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Gas Station	<b>UST Configurations:</b>	
<b>Installation Date:</b>	01/01/1967	<b>CAS No:</b>	8006-61-9
<b>Date Removed:</b>	05/21/1997	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>			
<b>Owner Address:</b>			
<b>Owner City:</b>			
<b>Owner State:</b>			
<b>Owner Zip:</b>			
<b>Construction:</b>	BM - Bare Metal		
<b>Construction Comments:</b>	Steel		
<b>Overfill Prevention:</b>			
<b>Overfill Prev Comments:</b>	OverFill Spill: No		
<b>Prmry Release Detection:</b>	AMO - Alternative Method (Other, explain)		
<b>2ndry Release Detection:</b>			
<b>Release Detect Comments:</b>	RDTank: / RDLine:		
<b>Spill Prevention Manholes:</b>	NP - None Present		
<b>Spill Prev Manhole Comment:</b>	No		
<b>Corrosion Protections:</b>			
<b>Corrosion Protect Comments:</b>			
<b>Piping Configuration:</b>			
<b>Piping Config Comment:</b>			
<b>Piping Styles:</b>	NA - Not Applicable		
<b>Piping Construction:</b>	OTH - Other (explain)		
<b>Piping Construct Comments:</b>	Unknown		
<b>Piping Corrosion Protection:</b>	OTH - Other (explain)		
<b>Piping Corr Protect Comments:</b>			
<b>Piping Release Detection:</b>	OTH - Other(explain)		
<b>Piping Rel Detect Comments:</b>			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Comments:**

<b>Tank No:</b>	T00002	<b>Date Last Used:</b>	08/29/1992
<b>Status:</b>	REM - Removed	<b>UST Capacity:</b>	8000
<b>UST:</b>	UST	<b>Tank Content:</b>	Gasoline
<b>Regulated:</b>	YES	<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Gas Station	<b>UST Configurations:</b>	
<b>Installation Date:</b>	01/01/1967	<b>CAS No:</b>	8006-61-9
<b>Date Removed:</b>	05/21/1997	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>			
<b>Owner Address:</b>			
<b>Owner City:</b>			
<b>Owner State:</b>			
<b>Owner Zip:</b>			
<b>Construction:</b>	BM - Bare Metal		
<b>Construction Comments:</b>	Steel		
<b>Overfill Prevention:</b>			
<b>Overfill Prev Comments:</b>	OverFill Spill: No		
<b>Prmry Release Detection:</b>	AMO - Alternative Method (Other, explain)		
<b>2ndry Release Detection:</b>			
<b>Release Detect Comments:</b>	RDTank: / RDLine:		
<b>Spill Prevention Manholes:</b>	NP - None Present		
<b>Spill Prev Manhole Comment:</b>	No		
<b>Corrosion Protections:</b>			
<b>Corrosion Protect Comments:</b>			
<b>Piping Configuration:</b>			
<b>Piping Config Comment:</b>			
<b>Piping Styles:</b>	NA - Not Applicable		
<b>Piping Construction:</b>	OTH - Other (explain)		
<b>Piping Construct Comments:</b>	Unknown		
<b>Piping Corrosion Protection:</b>	OTH - Other (explain)		
<b>Piping Corr Protect Comments:</b>			
<b>Piping Release Detection:</b>	OTH - Other(explain)		
<b>Piping Rel Detect Comments:</b>			
<b>Comments:</b>			

**BUSTR: All Facility Tanks**

<b>Tank No:</b>	T00001	<b>Address Out:</b>	6918 Denison Ave
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	5/21/1997	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5245
<b>UST Capacity:</b>	8000	<b>Lat:</b>	41.46175
<b>Tank Content:</b>	Gasoline	<b>Lon:</b>	-81.73542
<b>Label:</b>	18009772 DENNISON CARE	<b>Match:</b>	S80
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	MAF7
<b>State:</b>	Ohio	<b>LOC CONF:</b>	1
<b>X:</b>			
<b>Y:</b>			

<b>Tank No:</b>	T00003	<b>Address Out:</b>	6918 Denison Ave
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	5/21/1997	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5245
<b>UST Capacity:</b>	6000	<b>Lat:</b>	41.46175
<b>Tank Content:</b>	Diesel	<b>Lon:</b>	-81.73542
<b>Label:</b>	18009772 DENNISON CARE	<b>Match:</b>	S80
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	MAF7
<b>State:</b>	Ohio	<b>LOC CONF:</b>	1
<b>X:</b>			
<b>Y:</b>			

<b>Tank No:</b>	T00002	<b>Address Out:</b>	6918 Denison Ave
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	5/21/1997	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5245
<b>UST Capacity:</b>	8000	<b>Lat:</b>	41.46175

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Tank Content:</b>	Gasoline				<b>Lon:</b> -81.73542	
<b>Label:</b>	18009772 DENNISON CARE				<b>Match:</b> S80	
<b>Date Process:</b>	2020/09/24				<b>LOC QUAL:</b> MAF7	
<b>State:</b>	Ohio				<b>LOC CONF:</b> 1	
<b>X:</b>						
<b>Y:</b>						

**BUSTR - UST Locations (BUSTR/OGrip)**

<b>Object ID:</b>	46753	<b>Facility Name:</b>	DENNISON CARE
<b>Facility ID:</b>	18009772	<b>Facility Co:</b>	
<b>Tank ID:</b>	T00003	<b>Address:</b>	6918 DENISON AVE
<b>Facility Status:</b>	Inactive	<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	08/29/92	<b>Zip:</b>	44102
<b>Inspection Date:</b>		<b>County:</b>	CUY
<b>Status:</b>	REM	<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687	<b>Latitude DD Begin:</b>	41.46179
<b>Capacity:</b>	6000	<b>Longitude DD Begin:</b>	-81.73611
<b>Content:</b>	Diesel		

**BUSTR - UST Locations (BUSTR/OGrip)**

<b>Object ID:</b>	46751	<b>Facility Name:</b>	DENNISON CARE
<b>Facility ID:</b>	18009772	<b>Facility Co:</b>	
<b>Tank ID:</b>	T00001	<b>Address:</b>	6918 DENISON AVE
<b>Facility Status:</b>	Inactive	<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	06/10/97	<b>Zip:</b>	44102
<b>Inspection Date:</b>		<b>County:</b>	CUY
<b>Status:</b>	REM	<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687	<b>Latitude DD Begin:</b>	41.46179
<b>Capacity:</b>	8000	<b>Longitude DD Begin:</b>	-81.73611
<b>Content:</b>	Gasoline		

**BUSTR - UST Locations (BUSTR/OGrip)**

<b>Object ID:</b>	46752	<b>Facility Name:</b>	DENNISON CARE
<b>Facility ID:</b>	18009772	<b>Facility Co:</b>	
<b>Tank ID:</b>	T00002	<b>Address:</b>	6918 DENISON AVE
<b>Facility Status:</b>	Inactive	<b>City:</b>	CLEVELAND
<b>Date Removed:</b>	08/29/92	<b>Zip:</b>	44102
<b>Inspection Date:</b>		<b>County:</b>	CUY
<b>Status:</b>	REM	<b>ODoT District:</b>	12
<b>Data Date:</b>	2014-11-10 14:15:46.687	<b>Latitude DD Begin:</b>	41.46179
<b>Capacity:</b>	8000	<b>Longitude DD Begin:</b>	-81.73611
<b>Content:</b>	Gasoline		

<a href="#">20</a>	1 of 2	SE	0.25 / 1,313.38	704.10 / 5	TRAVEL-RITE 3316 WEST 65TH STREET CLEVELAND OH 44102	LUST
<b>Release No:</b>	18000153 - N00001	<b>Release No (Map):</b>	18000153-N00001			
<b>Facility Name:</b>	TRAVEL-RITE	<b>Fac Name (Map):</b>	TRAVEL-RITE			
<b>Facility Address:</b>	3316 WEST 65TH STREET	<b>Fac Address (Map):</b>	3316 WEST 65TH STREET			
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND			
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102			
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>				
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.463653			
<b>Facility Latitude:</b>	41.464087	<b>Longitude (Map):</b>	-81.730348			
<b>Facility Longitude:</b>	-81.730344	<b>Fac ID (BUSTR2):</b>	18000153			
<b>Release No (OTTER):</b>	18000153-N00001	<b>IncidntID (BUSTR2):</b>	N00001			
<b>Fac Name (OTTER):</b>	TRAVEL-RITE	<b>Fac Name (BUSTR2):</b>	TRAVEL -RITE			
<b>FacAddress (OTTER):</b>	3316 WEST 65TH STREET	<b>Address (BUSTR2):</b>	3316 WEST 65TH STREET			
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND			
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102			
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>County (OTTER):</b>	Cuyahoga				<b>Latitude (BUSTR2):</b>	41.46409
<b>Latitude (OTTER):</b>					<b>Longitude (BUSTR2):</b>	-81.73034
<b>Longitude (OTTER):</b>					<b>Release No (BUSTR):</b>	18000153-N00001
<b>Fac Name (BUSTR):</b>	TRAVEL-RITE				<b>Fac Addr (BUSTR):</b>	3316 WEST 65TH STREET
<b>Fac City (BUSTR):</b>	CLEVELAND				<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102				<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.464087				<b>Longitude (BUSTR):</b>	-81.730344
<b>Facility (OTTER):</b>	18000153 (TRAVEL-RITE)					
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)					

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	10/21/1999
<b>LTF Status:</b>	6 Closure of regulated UST	<b>Review Date:</b>	10/21/1999
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	
<b>Release Date:</b>	09/13/1999	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	189073800.0	<b>Date Reported:</b>	9/13/1999
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	TRAVEL -RITE
<b>Facility:</b>	18000153 (TRAVEL-RITE)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#7764">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#7764</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=35063">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=35063</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.730348
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18000153 - N00001 TRAVEL-RITE	<b>LOC QUAL:</b>	AS0
<b>Release No:</b>	18000153 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	2
<b>Address Out:</b>	3316 W 65th St	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.730348
<b>ZIP Out:</b>	44102-5560	<b>Y:</b>	41.463653
<b>Lat:</b>	41.463653		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	17593	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18000153	<b>Address:</b>	3316 WEST 65TH STREET
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	6 Closure of regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.46409
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.73034
<b>Current Fac Name:</b>	TRAVEL -RITE		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	37871	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	189073800.0	<b>LTF:</b>	6 Closure of regulated UST
<b>Last Review Date:</b>	10/21/1999	<b>Rating:</b>	
<b>Release Date:</b>	9/13/1999	<b>Facility Name:</b>	TRAVEL-RITE
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	3316 WEST 65TH STREET
<b>Last Update Date:</b>	3/22/2019	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	10/21/1999	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44102

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Priority:					Facility Latitude:	41.464087
Class:	D				Facility Longitude:	-81.730344
Rules:	1999					

[20](#)      2 of 2      SE      0.25 / 1,313.38      704.10 / 5      TRAVEL-RITE  
3316 WEST 65TH STREET      UST  
CLEVELAND OH 44102

<b>Facility (OTTER):</b>		<b>Facility No (Map):</b>	18000153
<b>Fac No (OTTER):</b>	18000153	<b>Fac Name (Map):</b>	TRAVEL-RITE
<b>Fac Name (OTTER):</b>	TRAVEL-RITE	<b>Address (Map):</b>	3316 WEST 65TH STREET
<b>Address (OTTER):</b>	3316 WEST 65TH STREET	<b>City (Map):</b>	CLEVELAND
<b>City (OTTER):</b>	CLEVELAND	<b>State (Map):</b>	Ohio
<b>State (OTTER):</b>		<b>Zip (Map):</b>	44102
<b>Zip (OTTER):</b>	44102	<b>County (Map):</b>	Cuyahoga
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (Map):</b>	41.464087
<b>Latitude (OTTER):</b>		<b>Longitude (Map):</b>	-81.730344
<b>Longitude (OTTER):</b>		<b>Fac ID (BUSTR2):</b>	
<b>Fac No (BUSTR):</b>	18000153	<b>Fac Name (BUSTR2):</b>	
<b>Fac Name (BUSTR):</b>	TRAVEL-RITE	<b>Address (BUSTR2):</b>	
<b>Address (BUSTR):</b>	3316 WEST 65TH STREET	<b>City (BUSTR2):</b>	
<b>City (BUSTR):</b>	CLEVELAND	<b>Zip (BUSTR2):</b>	
<b>State (BUSTR):</b>	Ohio	<b>Latitude (BUSTR2):</b>	
<b>Zip (BUSTR):</b>	44102	<b>Longitude (BUSTR2):</b>	
<b>County (BUSTR2):</b>			
<b>County (BUSTR):</b>	Cuyahoga		
<b>Latitude (BUSTR):</b>	41.463653		
<b>Longitude (BUSTR):</b>	-81.730348		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER) Search; Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks; BUSTR: All Facility Tanks		

**Ohio Tank Tracking & Environmental Regulations (OTTER) Search**

<b>Old Incident ID:</b>	189073800.0	<b>Date Reported:</b>	9/13/1999
<b>Tank Status:</b>	No Tanks Available	<b>Own Business Name:</b>	TRAVEL -RITE
<b>Facility URL:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#7764">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#7764</a>		
<b>Release No URL:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=35063">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=35063</a>		

**Underground Storage Tanks Lookup - List of Inactive Underground Storage Tanks**

<b>Tank No:</b>	T00001	<b>Date Last Used:</b>	
<b>Status:</b>	REM - Removed	<b>UST Capacity:</b>	2000
<b>UST:</b>	UST	<b>Tank Content:</b>	Gasoline
<b>Regulated:</b>	YES	<b>Abandon Approve:</b>	
<b>Facility Type:</b>	Unknown	<b>UST Configurations:</b>	
<b>Installation Date:</b>		<b>CAS No:</b>	
<b>Date Removed:</b>	06/08/1999	<b>Sensitive Area:</b>	NO
<b>Date TCL Closed:</b>		<b>Dt of Sensitivity:</b>	
<b>Owner Name:</b>			
<b>Owner Address:</b>			
<b>Owner City:</b>			
<b>Owner State:</b>			
<b>Owner Zip:</b>			
<b>Construction:</b>			
<b>Construction Comments:</b>			
<b>Overfill Prevention:</b>			
<b>Overfill Prev Comments:</b>			
<b>Prmry Release Detection:</b>			
<b>2ndry Release Detection:</b>			
<b>Release Detect Comments:</b>			
<b>Spill Prevention Manholes:</b>			
<b>Spill Prev Manhole Comment:</b>			
<b>Corrosion Protections:</b>			
<b>Corrosion Protect Comments:</b>			
<b>Piping Configuration:</b>			
<b>Piping Config Comment:</b>			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Piping Styles:**  
**Piping Construction:**  
**Piping Construct Comments:**  
**Piping Corrosion Protection:**  
**Piping Corr Protect Comments:**  
**Piping Release Detection:**  
**Piping Rel Detect Comments:**  
**Comments:**

**BUSTR: All Facility Tanks**

<b>Tank No:</b>	T00001	<b>Address Out:</b>	3316 W 65th St
<b>Status:</b>	REM - Removed	<b>City Out:</b>	Cleveland
<b>Date Remove:</b>	6/8/1999	<b>State Out:</b>	OH
<b>Data Date:</b>	9/21/2020	<b>Zip Out:</b>	44102-5560
<b>UST Capacity:</b>	2000	<b>Lat:</b>	41.463653
<b>Tank Content:</b>	Gasoline	<b>Lon:</b>	-81.730348
<b>Label:</b>	18000153 TRAVEL-RITE	<b>Match:</b>	S80
<b>Date Process:</b>	2020/09/24	<b>LOC QUAL:</b>	AS0
<b>State:</b>	Ohio	<b>LOC CONF:</b>	2
<b>X:</b>			
<b>Y:</b>			

<a href="#">21</a>	1 of 1	SSW	0.25 / 1,320.02	737.07 / 38	<b>ACTION AUTO SERVICE 7050 DENNISON AVE CLEVELAND OH 44114</b>	<b>DELISTED LST</b>
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**Delisted Regulated and Non-Regulated Leaking Underground Storage Tanks (LUST)**

<b>Incident No:</b>	185042800.0	<b>Class:</b>	C
<b>Release No:</b>	18003232 - N00001	<b>Class Desc:</b>	The RP is non-viable
<b>Status:</b>	T1S: Tier 1 Source Investigation	<b>Rules:</b>	2017
<b>Sub Status:</b>	Required	<b>Coordinator:</b>	Charles Zepp
<b>Release Date:</b>	12/15/1995	<b>County:</b>	Cuyahoga
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>Facility Latitude:</b>	41.462168
<b>Last Update:</b>	Charles Zepp	<b>Facility Longitude:</b>	-81.737241
<b>Last Update Date:</b>	11/6/2018	<b>Original Source:</b>	NLUT
<b>Last Status Update:</b>	7/11/2012	<b>Record Date:</b>	14-JAN-2019
<b>Priority:</b>	2		

<a href="#">22</a>	1 of 1	SSW	0.26 / 1,391.15	736.14 / 37	<b>DENNISON CARE 6918 DENISON AVE CLEVELAND OH 44102</b>	<b>DELISTED LST</b>
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**Delisted Regulated and Non-Regulated Leaking Underground Storage Tanks (LUST)**

<b>Incident No:</b>	187065300.0	<b>Class:</b>	C
<b>Release No:</b>	18009772 - N00001	<b>Class Desc:</b>	The RP is non-viable
<b>Status:</b>	TR1: T1S Required (Prior SB/MW Installed)	<b>Rules:</b>	2017
<b>Sub Status:</b>	Required	<b>Coordinator:</b>	Charles Zepp
<b>Release Date:</b>	7/8/1997	<b>County:</b>	Cuyahoga
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>Facility Latitude:</b>	41.461792
<b>Last Update:</b>	Charles Zepp	<b>Facility Longitude:</b>	-81.736114
<b>Last Update Date:</b>	11/6/2018	<b>Original Source:</b>	NLUT
<b>Last Status Update:</b>	4/20/2015	<b>Record Date:</b>	14-JAN-2019
<b>Priority:</b>	2		

<a href="#">23</a>	1 of 4	NE	0.26 / 1,394.47	681.99 / -18	<b>Wire Net, Cleveland Corner of Walworth Ave &amp; W 65th St Cleveland OH 44102</b>	<b>DERR</b>
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**DERR ID:** 218001967 **County:** Cuyahoga  
**CERCLIS ID:** **District:** NEDO  
**Program:** VAP **Latitude:** 41.470725  
**Program Desc:** Voluntary Action Program **Longitude:** -81.728891  
**Address (REST):** Corner of Walworth Ave & W 65th St **Cerclis IID (REST):**  
**City (REST):** Cleveland **OepaDstrct (REST):** NEDO  
**Zip (REST):** 44102 **Activity (REST):** VAP  
**County (REST):** Cuyahoga **DERR ID (REST):** 218001967  
**LatDd Begin (REST):** 41.470725; 41.470725; 41.470725 **LonDd Begin (REST):** -81.728891; -81.728891; -81.728891  
**Source:** Ohio EPA: DERR Database; REST Services Directory: DERR Database (OEPA-DERR)  
**Name (REST):** Wire Net, Cleveland

**Ohio EPA: DERR Database**

**Alias:** Wire Net, Cleveland  
**Alias:** Walworth Run Ind Park, Cleveland

**REST Services Directory: DERR Database (OEPA-DERR)**

**Cerclis ID:** **Address:** Corner of Walworth Ave & W 65th St  
**Alias:** Wire Net, Cleveland **City:** Cleveland  
**Activity:** VAP **Zip:** 44102  
**ODoT District:** 12 **Latitude DD Begin:** 41.470725  
**OEPA District:** NEDO **Longitude DD Begin:** -81.728891  
**County:** Cuyahoga  
**Name:** Wire Net, Cleveland

**Cerclis ID:** **Address:** Corner of Walworth Ave & W 65th St  
**Alias:** **City:** Cleveland  
**Activity:** VAP **Zip:** 44102  
**ODoT District:** 12 **Latitude DD Begin:** 41.470725  
**OEPA District:** NEDO **Longitude DD Begin:** -81.728891  
**County:** Cuyahoga  
**Name:** Wire Net, Cleveland

**Cerclis ID:** **Address:** Corner of Walworth Ave & W 65th St  
**Alias:** Walworth Run Ind Park, Cleveland **City:** Cleveland  
**Activity:** VAP **Zip:** 44102  
**ODoT District:** 12 **Latitude DD Begin:** 41.470725  
**OEPA District:** NEDO **Longitude DD Begin:** -81.728891  
**County:** Cuyahoga  
**Name:** Wire Net, Cleveland

<a href="#">23</a>	2 of 4	NE	0.26 / 1,394.47	681.99 / -18	Wire Net, Cleveland *Corner of Walworth Ave & W 65th St Cleveland OH 44102	INST
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**Site ID:** 218001967 **County:** Cuyahoga  
**Project ID:** 218001967001 **Latitude:** 41.471225  
**District:** NEDO **Longitude:** -81.728575  
**Data Source:** Ohio EPA: List of All Institutional Controls; REST Services Directory: Institutional Controls (OEPA-DERR)

**Ohio EPA Details**

**NFA No:** **Program Area:** VAP  
**Land Use:** **Program Area Desc:** Voluntary Action Program  
**Project Type:** NFA 90 Day  
**IC Type:**  
**IC Mechanism:**

**NFA No:** **Program Area:** VAP  
**Land Use:** **Program Area Desc:** Voluntary Action Program

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Project Type:</b>	NFA 90 Day					
<b>IC Type:</b>		Above Ground Structure Construction Restriction				
<b>IC Mechanism:</b>		Declaration of Use Restriction				
<b>NFA No:</b>					<b>Program Area:</b> VAP	
<b>Land Use:</b>					<b>Program Area Desc:</b> Voluntary Action Program	
<b>Project Type:</b>	NFA 90 Day					
<b>IC Type:</b>		Digging/Excavating Restriction				
<b>IC Mechanism:</b>		Declaration of Use Restriction				
<b>NFA No:</b>					<b>Program Area:</b> VAP	
<b>Land Use:</b>					<b>Program Area Desc:</b> Voluntary Action Program	
<b>Project Type:</b>	NFA 90 Day					
<b>IC Type:</b>		Industrial Use Restriction				
<b>IC Mechanism:</b>		Declaration of Use Restriction				
<b>NFA No:</b>					<b>Program Area:</b> VAP	
<b>Land Use:</b>					<b>Program Area Desc:</b> Voluntary Action Program	
<b>Project Type:</b>	NFA 90 Day					
<b>IC Type:</b>		Potable & Non-potable GW Extraction/Use Restriction				
<b>IC Mechanism:</b>		Declaration of Use Restriction				
<b>NFA No:</b>	00NFA091				<b>Program Area:</b> VAP	
<b>Land Use:</b>	Commercial/Industrial				<b>Program Area Desc:</b> Voluntary Action Program	
<b>Project Type:</b>	NFA 90 Day					
<b>IC Type:</b>						
<b>IC Mechanism:</b>						

**Map Details**

**NFA No:**  
**Land Use:**  
**Control Type:** Institutional  
**Project Type:** NFA 90 Day  
**Program Area:** VAP  
**Program Area Desc:** Voluntary Action Program  
**Name:** Wire Net, Cleveland  
**Address:** \*Corner of Walworth Ave & W 65th St  
**City:** Cleveland  
**IC Type:** Digging/Excavating Restriction  
**IC Mechanism:** Declaration of Use Restriction

**ODoT District:** 12  
**OEPA District:** NEDO  
**County:** Cuyahoga  
**ZIP code:** 44102  
**Latitude DD Begin:** 41.471225  
**Longitude DD Begin:** -81.728575

**NFA No:**  
**Land Use:**  
**Control Type:** Institutional  
**Project Type:** NFA 90 Day  
**Program Area:** VAP  
**Program Area Desc:** Voluntary Action Program  
**Name:** Wire Net, Cleveland  
**Address:** \*Corner of Walworth Ave & W 65th St  
**City:** Cleveland  
**IC Type:** Potable & Non-potable GW Extraction/Use Restriction  
**IC Mechanism:** Declaration of Use Restriction

**ODoT District:** 12  
**OEPA District:** NEDO  
**County:** Cuyahoga  
**ZIP code:** 44102  
**Latitude DD Begin:** 41.471225  
**Longitude DD Begin:** -81.728575

**NFA No:**  
**Land Use:**  
**Control Type:** Institutional  
**Project Type:** NFA 90 Day  
**Program Area:** VAP  
**Program Area Desc:** Voluntary Action Program  
**Name:** Wire Net, Cleveland  
**Address:** \*Corner of Walworth Ave & W 65th St  
**City:** Cleveland  
**IC Type:**  
**IC Mechanism:**

**ODoT District:** 12  
**OEPA District:** NEDO  
**County:** Cuyahoga  
**ZIP code:** 44102  
**Latitude DD Begin:** 41.471225  
**Longitude DD Begin:** -81.728575

**NFA No:**  
**Land Use:**

**ODoT District:** 12  
**OEPA District:** NEDO

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>Control Type:</b>	Institutional	<b>County:</b>	Cuyahoga
<b>Project Type:</b>	NFA 90 Day	<b>ZIP code:</b>	44102
<b>Program Area:</b>	VAP	<b>Latitude DD Begin:</b>	41.471225
<b>Program Area Desc:</b>	Voluntary Action Program	<b>Longitude DD Begin:</b>	-81.728575
<b>Name:</b>	Wire Net, Cleveland		
<b>Address:</b>	*Corner of Walworth Ave & W 65th St		
<b>City:</b>	Cleveland		
<b>IC Type:</b>	Above Ground Structure Construction Restriction		
<b>IC Mechanism:</b>	Declaration of Use Restriction		

<b>NFA No:</b>		<b>ODoT District:</b>	12
<b>Land Use:</b>		<b>OEPA District:</b>	NEDO
<b>Control Type:</b>	Institutional	<b>County:</b>	Cuyahoga
<b>Project Type:</b>	NFA 90 Day	<b>ZIP code:</b>	44102
<b>Program Area:</b>	VAP	<b>Latitude DD Begin:</b>	41.471225
<b>Program Area Desc:</b>	Voluntary Action Program	<b>Longitude DD Begin:</b>	-81.728575
<b>Name:</b>	Wire Net, Cleveland		
<b>Address:</b>	*Corner of Walworth Ave & W 65th St		
<b>City:</b>	Cleveland		
<b>IC Type:</b>	Industrial Use Restriction		
<b>IC Mechanism:</b>	Declaration of Use Restriction		

<b>NFA No:</b>	00NFA091	<b>ODoT District:</b>	12
<b>Land Use:</b>	Commercial/Industrial	<b>OEPA District:</b>	NEDO
<b>Control Type:</b>	Institutional	<b>County:</b>	Cuyahoga
<b>Project Type:</b>	NFA 90 Day	<b>ZIP code:</b>	44102
<b>Program Area:</b>	VAP	<b>Latitude DD Begin:</b>	41.471225
<b>Program Area Desc:</b>	Voluntary Action Program	<b>Longitude DD Begin:</b>	-81.728575
<b>Name:</b>	Wire Net, Cleveland		
<b>Address:</b>	*Corner of Walworth Ave & W 65th St		
<b>City:</b>	Cleveland		
<b>IC Type:</b>			
<b>IC Mechanism:</b>			

<a href="#">23</a>	3 of 4	NE	0.26 / 1,394.47	681.99 / -18	Wire Net, Cleveland *Corner of Walworth Ave & W 65th St Cleveland OH 44102	VCP
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<b>Site ID:</b>	218001967	<b>Site ID (Map):</b>	218001967
<b>County:</b>	Cuyahoga	<b>County (Map):</b>	Cuyahoga
<b>EPA District:</b>	NEDO	<b>OEPA District (Map):</b>	NEDO
<b>Latitude:</b>	41.470725	<b>Latitude (Map):</b>	41.470725
<b>Longitude:</b>	-81.728891	<b>Longitude (Map):</b>	-81.728891
<b>Name:</b>	Wire Net, Cleveland		
<b>Street Address:</b>	*Corner of Walworth Ave & W 65th St		
<b>Street Address 2:</b>			
<b>City:</b>	Cleveland		
<b>Postal Code:</b>	44102		
<b>Name (Map):</b>	Wire Net, Cleveland		
<b>Address (Map):</b>	*Corner of Walworth Ave & W 65th St		
<b>Address2 (Map):</b>			
<b>City (Map):</b>	Cleveland		
<b>ZIP code (Map):</b>	44102		
<b>Source:</b>	Ohio EPA: List of All VAP Sites; REST Services Directory: VAP Sites (OEPA-DERR)		

**Ohio EPA Details**

<b>Alias Name:</b>	Walworth Run Ind Park, Cleveland
<b>Old Program ID:</b>	99GR031
<b>Project Type Desc:</b>	VAP Technical Assistance
<b>Alias Name:</b>	Wire Net, Cleveland
<b>Old Program ID:</b>	06GR020
<b>Project Type Desc:</b>	VAP Technical Assistance

**Alias Name:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Old Program ID:</b>		98TA082				
<b>Project Type Desc:</b>		VAP Technical Assistance				
<b>Alias Name:</b>		Walworth Run Ind Park, Cleveland				
<b>Old Program ID:</b>		00NFA091				
<b>Project Type Desc:</b>		NFA 90 Day				
<b>Alias Name:</b>		Walworth Run Ind Park, Cleveland				
<b>Old Program ID:</b>		06GR020				
<b>Project Type Desc:</b>		VAP Technical Assistance				
<b>Alias Name:</b>		Walworth Run Ind Park, Cleveland				
<b>Old Program ID:</b>		00NFA091				
<b>Project Type Desc:</b>		VAP Institutional Control Inspection				
<b>Map Details</b>						
<b>Old Program ID:</b>	06GR020			<b>Latitude DD Begin:</b>	41.470725	
<b>Project Type:</b>	VAP Technical Assistance			<b>Longitude DD Begin:</b>	-81.728891	
<b>ODoT District:</b>	12					
<b>Old Program ID:</b>	00NFA091			<b>Latitude DD Begin:</b>	41.470725	
<b>Project Type:</b>	VAP Institutional Control Inspection			<b>Longitude DD Begin:</b>	-81.728891	
<b>ODoT District:</b>	12					
<b>Old Program ID:</b>	06GR020			<b>Latitude DD Begin:</b>	41.470725	
<b>Project Type:</b>	VAP Technical Assistance			<b>Longitude DD Begin:</b>	-81.728891	
<b>ODoT District:</b>	12					
<b>Old Program ID:</b>	06GR020			<b>Latitude DD Begin:</b>	41.470725	
<b>Project Type:</b>	VAP Technical Assistance			<b>Longitude DD Begin:</b>	-81.728891	
<b>ODoT District:</b>	12					
<b>Old Program ID:</b>	98TA082			<b>Latitude DD Begin:</b>	41.470725	
<b>Project Type:</b>	VAP Technical Assistance			<b>Longitude DD Begin:</b>	-81.728891	
<b>ODoT District:</b>	12					
<b>Old Program ID:</b>	99GR031			<b>Latitude DD Begin:</b>	41.470725	
<b>Project Type:</b>	VAP Technical Assistance			<b>Longitude DD Begin:</b>	-81.728891	
<b>ODoT District:</b>	12					
<b>Old Program ID:</b>	00NFA091			<b>Latitude DD Begin:</b>	41.470725	
<b>Project Type:</b>	NFA 90 Day			<b>Longitude DD Begin:</b>	-81.728891	
<b>ODoT District:</b>	12					

23      4 of 4      NE      0.26 / 1,394.47      681.99 / -18      Wire Net, Cleveland  
\*Corner of Walworth Ave & W 65th St  
Cleveland OH      VAP CNS

<b>Core Place ID:</b>		<b>Bustr Cleanup NFA:</b>	
<b>Parent ID:</b>	218001967	<b>Dt Notice Snt Bustr:</b>	
<b>Project ID:</b>	218001967001	<b>Days Start to Fin:</b>	509
<b>NFA No:</b>	00NFA091	<b>End Date:</b>	9/25/2001
<b>Status:</b>	Voided	<b>Acreage:</b>	4.44
<b>Type:</b>	NFA 90 Day	<b>District:</b>	NEDO
<b>CP No:</b>	CP118	<b>County:</b>	Cuyahoga
<b>CP Name:</b>	Garvey, J	<b>Submitted Lat:</b>	41.471225
<b>Funding Code:</b>		<b>Submitted Long:</b>	-81.728575
<b>Received:</b>	5/4/2000	<b>Latitude:</b>	41.471225
<b>Start Date:</b>	5/4/2000	<b>Longitude:</b>	-81.728575
<b>Work Activity:</b>	Wire Net Brownfield Project, Cleveland		
<b>Comments:</b>	CNS Issued 9/25/2001 - voidance on 01/02/2015 due to non-compliance with use restriction		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<a href="#">24</a>	1 of 5	ENE	0.27 / 1,414.90	695.16 / -4	BOEHM PRESSED STEEL CO THE 2219 W 63RD ST CLEVELAND OH 44102	CERCLIS
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Site ID:	0504131	RNPL Status Code:	N
Site EPA ID:	OHD004182069	NPL Status:	Not on the NPL
Site Street Address 2:		RFED Facility Code:	N
Site County Name:	CUYAHOGA	RFED Facility Desc:	Not a Federal Facility
Site FIPS Code:	39035	USGS Hydro Unit No.:	04110002
Region Code:	05	Site Cong. Dist. Code:	20
Site SMSA No.:	1680	ROT Desc:	Other
Site Prim. Latitude:	+41.455000	FR NPL Update No.:	
Site Prim. Longitude:	-081.746667	RFRA Code:	
Lat Long Source:			
RNON NPL Status Desc:	NFRAP-Site does not qualify for the NPL based on existing information		

**CERCLIS Assess History**

OU ID:	00	RALT Short Name:	
Act Code ID:		Act Start Date:	
RAT Code:		Act Complete Date:	
RAT Short Name:		AGT Order No.:	0
RAT Name:		SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:		SH Seq:	
RAT Level:		SH Start Date:	
RAT DEF OU:		SH Complete Date:	
RFBS Code:		SH Lead:	
SPA Code:			
RAT Def:			
Site Desc:	No description available		
Site Alias:	No alias data available		

**CERCLIS Assess History**

OU ID:	00	RALT Short Name:	EPA In-House
Act Code ID:	001	Act Start Date:	
RAT Code:	VS	Act Complete Date:	6/30/1987 00:00:00
RAT Short Name:	ARCH SITE	AGT Order No.:	1500
RAT Name:	ARCHIVE SITE	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:		SH Lead:	
SPA Code:	13		
RAT Def:	The decision is made that no further activity is planned at the site.		
Site Desc:			
Site Alias:			

**CERCLIS Assess History**

OU ID:	00	RALT Short Name:	EPA Fund
Act Code ID:	001	Act Start Date:	
RAT Code:	DS	Act Complete Date:	5/1/1981 00:00:00
RAT Short Name:	DISCVRY	AGT Order No.:	10
RAT Name:	DISCOVERY	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:		SH Lead:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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SPA Code: 13  
 RAT Def: The process by which a potential hazardous waste site is brought to the attention of the EPA. The process can occur through the use of several mechanisms such as a phone call or referral by another government agency.  
 Site Desc:  
 Site Alias:

**CERCLIS Assess History**

OU ID:	00	RALT Short Name:	State (Fund)
Act Code ID:	001	Act Start Date:	
RAT Code:	PA	Act Complete Date:	9/1/1984 00:00:00
RAT Short Name:	PA	AGT Order No.:	130
RAT Name:	PRELIMINARY ASSESSMENT	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:	P	SH Lead:	
SPA Code:	13		
RAT Def:	Collection of diverse existing information about the source and nature of the site hazard. It is EPA policy to complete the preliminary assessment within one year of site discovery.		
Site Desc:			
Site Alias:			

**CERCLIS Assess History**

OU ID:	00	RALT Short Name:	EPA Fund
Act Code ID:	001	Act Start Date:	
RAT Code:	SI	Act Complete Date:	6/30/1987 00:00:00
RAT Short Name:	SI	AGT Order No.:	160
RAT Name:	SITE INSPECTION	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:	P	SH Lead:	
SPA Code:	13		
RAT Def:	The process of collecting site data and samples to characterize the severity of the hazard for the hazard ranking score and/or enforcement support.		
Site Desc:			
Site Alias:			

<a href="#">24</a>	2 of 5	ENE	0.27 / 1,414.90	695.16 / -4	BOEHM PRESSED STEEL CO THE 2219 W 63RD ST CLEVELAND OH 44102	CERCLIS NFRAP
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Site ID:	504131	Site FIPS Code:	39035
Site EPA ID:	OHD004182069	Region Code:	5
Site Parent ID:		Site Cong. Dist. Code:	20
Site County Name:	CUYAHOGA	Federal Facility:	
Parent Site Name:			

**CERCLIS-NFRAP Assess History**

OU ID:	0	Act Start Date:	
Act Code ID:	1	Act Complete Date:	5/1/1981
RAT Code:	DS	AGT Order No.:	10
RAT Short Name:	DISCVRY	SH OU:	
RAT Name:	DISCOVERY	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:		SH Qual:	
SPA Code:	13	RAQ Act. Qual Short:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**RALT Short Name:** EPA Fund **RNPL Status Code:** N  
**RAT Def:** The process by which a potential hazardous waste site is brought to the attention of the EPA. The process can occur through the use of several mechanisms such as a phone call or referral by another government agency.  
**RNON NPL Status Desc:** NFRAP-Site does not qualify for the NPL based on existing information

**CERCLIS-NFRAP Assess History**

**OU ID:** 0 **Act Start Date:**  
**Act Code ID:** 1 **Act Complete Date:** 6/30/1987  
**RAT Code:** SI **AGT Order No.:** 160  
**RAT Short Name:** SI **SH OU:**  
**RAT Name:** SITE INSPECTION **SH Code:**  
**RAT Hist. Only Flag:** **SH Seq:**  
**RAT NSI Indicator:** B **SH Start Date:**  
**RAT Level:** 1 **SH Complete Date:**  
**RAT DEF OU:** 00 **SH Lead:**  
**RFBS Code:** P **SH Qual:**  
**SPA Code:** 13 **RAQ Act. Qual Short:** NFRAP  
**RALT Short Name:** EPA Fund **RNPL Status Code:** N  
**RAT Def:** The process of collecting site data and samples to characterize the severity of the hazard for the hazard ranking score and/or enforcement support.  
**RNON NPL Status Desc:** NFRAP-Site does not qualify for the NPL based on existing information

**CERCLIS-NFRAP Assess History**

**OU ID:** 0 **Act Start Date:**  
**Act Code ID:** 1 **Act Complete Date:** 6/30/1987  
**RAT Code:** VS **AGT Order No.:** 1500  
**RAT Short Name:** ARCH SITE **SH OU:**  
**RAT Name:** ARCHIVE SITE **SH Code:**  
**RAT Hist. Only Flag:** **SH Seq:**  
**RAT NSI Indicator:** B **SH Start Date:**  
**RAT Level:** 1 **SH Complete Date:**  
**RAT DEF OU:** 00 **SH Lead:**  
**RFBS Code:** **SH Qual:**  
**SPA Code:** 13 **RAQ Act. Qual Short:**  
**RALT Short Name:** EPA In-House **RNPL Status Code:** N  
**RAT Def:** The decision is made that no further activity is planned at the site.  
**RNON NPL Status Desc:** NFRAP-Site does not qualify for the NPL based on existing information

**CERCLIS-NFRAP Assess History**

**OU ID:** 0 **Act Start Date:**  
**Act Code ID:** 1 **Act Complete Date:** 9/1/1984  
**RAT Code:** PA **AGT Order No.:** 130  
**RAT Short Name:** PA **SH OU:**  
**RAT Name:** PRELIMINARY ASSESSMENT **SH Code:**  
**RAT Hist. Only Flag:** **SH Seq:**  
**RAT NSI Indicator:** B **SH Start Date:**  
**RAT Level:** 1 **SH Complete Date:**  
**RAT DEF OU:** 00 **SH Lead:**  
**RFBS Code:** P **SH Qual:**  
**SPA Code:** 13 **RAQ Act. Qual Short:** Low priority  
**RALT Short Name:** State (Fund) **RNPL Status Code:** N  
**RAT Def:** Collection of diverse existing information about the source and nature of the site hazard. It is EPA policy to complete the preliminary assessment within one year of site discovery.  
**RNON NPL Status Desc:** NFRAP-Site does not qualify for the NPL based on existing information

<a href="#">24</a>	3 of 5	ENE	0.27 / 1,414.90	695.16 / -4	FORMER BOEHM PRESSED STEEL 2219 W 63RD ST CLEVELAND OH 44102	LUST
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**Release No:** 18002334 - N00001 **Release No (Map):** 18002334-N00001  
**Facility Name:** FORMER BOEHM PRESSED STEEL **Fac Name (Map):** FORMER BOEHM PRESSED STEEL

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>Facility Address:</b>	2219 W 63RD ST				<b>Fac Address (Map):</b>	2219 W 63RD ST
<b>Facility City:</b>	CLEVELAND				<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio				<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102				<b>County (Map):</b>	
<b>County:</b>	Cuyahoga				<b>Latitude (Map):</b>	41.476306
<b>Facility Latitude:</b>	41.469918				<b>Longitude (Map):</b>	-81.728911
<b>Facility Longitude:</b>	-81.729226				<b>Fac ID (BUSTR2):</b>	18002334
<b>Release No (OTTER):</b>	18002334-N00001				<b>IncidentID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	FORMER BOEHM PRESSED STEEL				<b>Fac Name (BUSTR2):</b>	FORMER BOEHM PRESSED STEEL
<b>FacAddress (OTTER):</b>	2219 W 63RD ST				<b>Address (BUSTR2):</b>	2219 W 63RD ST
<b>Fac City (OTTER):</b>	CLEVELAND				<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>					<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102				<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga				<b>Latitude (BUSTR2):</b>	41.46992
<b>Latitude (OTTER):</b>					<b>Longitude (BUSTR2):</b>	-81.72923
<b>Longitude (OTTER):</b>					<b>Release No (BUSTR):</b>	18002334-N00001
<b>Fac Name (BUSTR):</b>	FORMER BOEHM PRESSED STEEL				<b>Fac Addr (BUSTR):</b>	2219 W 63RD ST
<b>Fac City (BUSTR):</b>	CLEVELAND				<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102				<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.469918				<b>Longitude (BUSTR):</b>	-81.729226
<b>Facility (OTTER):</b>	18002334 (FORMER BOEHM PRESSED STEEL)					
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/GRIP) (BUSTR2)					

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	8/10/1999
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	08/10/1999
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	08/01/1995	<b>Class:</b>	A
<b>Class Description:</b>	A Responsible Party (RP) for the release has not yet been determined		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	185107200.0	<b>Date Reported:</b>	8/1/1995
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	OHIO DEPT. OF TRANSPORTATION (ODOT)
<b>Facility:</b>	18002334 (FORMER BOEHM PRESSED STEEL)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#31477">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#31477</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32966">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32966</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.728911
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18002334 - N00001 FORMER BOEHM PRESSED STEEL	<b>LOC QUAL:</b>	ASO
<b>Release No:</b>	18002334 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	2
<b>Address Out:</b>	2219 W 63rd St	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.728911
<b>ZIP Out:</b>	44102	<b>Y:</b>	41.476306
<b>Lat:</b>	41.476306		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	20673	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18002334	<b>Address:</b>	2219 W 63RD ST
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.46992
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.72923

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Current Fac Name: FORMER BOEHM PRESSED STEEL

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	13233	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	185107200.0	<b>LTF:</b>	1 SUS/CON from regulated UST
<b>Last Review Date:</b>	8/10/1999	<b>Rating:</b>	0
<b>Release Date:</b>	8/1/1995	<b>Facility Name:</b>	FORMER BOEHM PRESSED STEEL
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	2219 W 63RD ST
<b>Last Update Date:</b>	12/30/2020	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	8/10/1999	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.469918
<b>Class:</b>	A	<b>Facility Longitude:</b>	-81.729226
<b>Rules:</b>	1992		

<a href="#">24</a>	4 of 5	ENE	0.27 / 1,414.90	695.16 / -4	Boehm Pressed Steel Co, Cleveland 2219 W 63rd St Cleveland OH 44102	DERR
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<b>DERR ID:</b>	218000102	<b>County:</b>	Cuyahoga
<b>CERCLIS ID:</b>	OHD004182069	<b>District:</b>	NEDO
<b>Program:</b>	SA	<b>Latitude:</b>	41.475
<b>Program Desc:</b>	Site Assessment	<b>Longitude:</b>	-81.72444444
<b>Address (REST):</b>	2219 W 63rd St	<b>Cerclis IID (REST):</b>	OHD004182069
<b>City (REST):</b>	Cleveland	<b>OepaDstrct (REST):</b>	NEDO
<b>Zip (REST):</b>	44102	<b>Activity (REST):</b>	SA
<b>County (REST):</b>	Cuyahoga	<b>DERR ID (REST):</b>	218000102
<b>LatDd Begin (REST):</b>	41.475	<b>LonDd Begin (REST):</b>	-81.72444444
<b>Source:</b>	Ohio EPA: DERR Database; REST Services Directory: DERR Database (OEPA-DERR)		
<b>Name (REST):</b>	Boehm Pressed Steel Co, Cleveland		

**REST Services Directory: DERR Database (OEPA-DERR)**

<b>Cerclis ID:</b>	OHD004182069	<b>Address:</b>	2219 W 63rd St
<b>Alias:</b>		<b>City:</b>	Cleveland
<b>Activity:</b>	SA	<b>Zip:</b>	44102
<b>ODoT District:</b>	12	<b>Latitude DD Begin:</b>	41.475
<b>OEPA District:</b>	NEDO	<b>Longitude DD Begin:</b>	-81.72444444
<b>County:</b>	Cuyahoga		
<b>Name:</b>	Boehm Pressed Steel Co, Cleveland		

<a href="#">24</a>	5 of 5	ENE	0.27 / 1,414.90	695.16 / -4	BOEHM PRESSED STEEL CO THE 2219 W 63RD ST CLEVELAND OH 44102	SEMS ARCHIVE
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<b>Site ID:</b>	0504131	<b>FIPS Code:</b>	39035
<b>EPA ID:</b>	OHD004182069	<b>Cong District:</b>	20
<b>Superfund Alt Agmt:</b>	No	<b>Region:</b>	05
<b>Federal Facility:</b>	No	<b>County:</b>	CUYAHOGA
<b>FF Docket:</b>	No		
<b>NPL:</b>	Not on the NPL		
<b>Non NPL Status:</b>	NFRAP-Site does not qualify for the NPL based on existing information		

**Action Information**

<b>Operable Units:</b>	00	<b>Start Actual:</b>	
<b>Action Code:</b>	SI	<b>Finish Actual:</b>	06/30/1987
<b>Action Name:</b>	SI	<b>Qual:</b>	N
<b>SEQ:</b>	1	<b>Curr Action Lead:</b>	EPA Perf
<b>Operable Units:</b>	00	<b>Start Actual:</b>	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Action Code:	PA				Finish Actual:	09/01/1984
Action Name:	PA				Qual:	L
SEQ:	1				Curr Action Lead:	St Perf
Operable Units:	00				Start Actual:	
Action Code:	VS				Finish Actual:	06/30/1987
Action Name:	ARCH SITE				Qual:	
SEQ:	1				Curr Action Lead:	EPA Perf In-Hse
Operable Units:	00				Start Actual:	05/01/1981
Action Code:	DS				Finish Actual:	05/01/1981
Action Name:	DISCVRY				Qual:	
SEQ:	1				Curr Action Lead:	EPA Perf

[25](#) 1 of 1 SE 0.27 / 1,439.00 702.01 / 3 MEREX CORP. 3337 W 65TH ST CLEVELAND OH 44102 LUST

<b>Release No:</b>	18004820 - N00001	<b>Release No (Map):</b>	18004820-N00001
<b>Facility Name:</b>	MEREX CORP.	<b>Fac Name (Map):</b>	MEREX CORP.
<b>Facility Address:</b>	3337 W 65TH ST	<b>Fac Address (Map):</b>	3337 W 65TH ST
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	CUY
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.463073
<b>Facility Latitude:</b>	41.463602	<b>Longitude (Map):</b>	-81.729978
<b>Facility Longitude:</b>	-81.729988	<b>Fac ID (BUSTR2):</b>	18004820
<b>Release No (OTTER):</b>	18004820-N00001	<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	MEREX CORP.	<b>Fac Name (BUSTR2):</b>	MEREX CORP.
<b>FacAddress (OTTER):</b>	3337 W 65TH ST	<b>Address (BUSTR2):</b>	3337 W 65TH ST
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.4636
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.72999
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18004820-N00001
<b>Fac Name (BUSTR):</b>	MEREX CORP.	<b>Fac Addr (BUSTR):</b>	3337 W 65TH ST
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.463602	<b>Longitude (BUSTR):</b>	-81.729988
<b>Facility (OTTER):</b>	18004820 (MEREX CORP.)		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)		

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	7/17/2012
<b>LTF Status:</b>	6 Closure of regulated UST	<b>Review Date:</b>	07/16/2012
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	01/22/1999	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>		<b>Date Reported:</b>	1/22/1999
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	MEREX CORP.
<b>Facility:</b>	18004820 (MEREX CORP.)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#23341">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#23341</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32768">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32768</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.729978
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Label:</b>	18004820 - N00001	MEREX CORP.			<b>LOC QUAL:</b> ASO	
<b>Release No:</b>	18004820 - N00001				<b>Facility Z:</b> 44102	
<b>Date:</b>	9/21/2020				<b>LOC CONF:</b> 2	
<b>Address Out:</b>	3337 W 65th St				<b>Date Process:</b> 20200923	
<b>City Out:</b>	Cleveland				<b>FID:</b>	
<b>State Out:</b>	OH				<b>X:</b> -81.729978	
<b>ZIP Out:</b>	44102-5511				<b>Y:</b> 41.463073	
<b>Lat:</b>	41.463073					

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	21078	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18004820	<b>Address:</b>	3337 W 65TH ST
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	6 Closure of regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.4636
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.72999
<b>Current Fac Name:</b>	MEREX CORP.		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	22972	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>		<b>LTF:</b>	6 Closure of regulated UST
<b>Last Review Date:</b>	7/16/2012	<b>Rating:</b>	14
<b>Release Date:</b>	1/22/1999	<b>Facility Name:</b>	MEREX CORP.
<b>Last Update:</b>	Scott Sigler	<b>Facility Address:</b>	3337 W 65TH ST
<b>Last Update Date:</b>	7/17/2012	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	7/17/2012	<b>County:</b>	Cuyahoga
<b>Substatus:</b>		<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.463602
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.729988
<b>Rules:</b>	1992		

[26](#) 1 of 1 SSE 0.27 / 1,439.23 708.98 / 9 FORMER TRUCK TERMINAL 6601 STORER CLEVELAND OH 44102 LUST

<b>Release No:</b>	18010257 - N00001	<b>Release No (Map):</b>	18010257-N00001
<b>Facility Name:</b>	FORMER TRUCK TERMINAL	<b>Fac Name (Map):</b>	FORMER TRUCK TERM
<b>Facility Address:</b>	6601 STORER	<b>Fac Address (Map):</b>	6601 STORER
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.46188
<b>Facility Latitude:</b>	41.462163	<b>Longitude (Map):</b>	-81.73177
<b>Facility Longitude:</b>	-81.731618	<b>Fac ID (BUSTR2):</b>	18010257
<b>Release No (OTTER):</b>	18010257-N00001	<b>IncidentID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	FORMER TRUCK TERMINAL	<b>Fac Name (BUSTR2):</b>	FORMER TRUCK TERM
<b>FacAddress (OTTER):</b>	6601 STORER	<b>Address (BUSTR2):</b>	6601 STORER
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.46216
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.73162
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18010257-N00001
<b>Fac Name (BUSTR):</b>	FORMER TRUCK TERMINAL	<b>Fac Addr (BUSTR):</b>	6601 STORER
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.462163	<b>Longitude (BUSTR):</b>	-81.731618
<b>Facility (OTTER):</b>	18010257 (FORMER TRUCK TERMINAL)		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer); All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/GRIP) (BUSTR2)		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	5/28/2010
<b>LTF Status:</b>	6 Closure of regulated UST	<b>Review Date:</b>	05/28/2010
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	10/11/1991	<b>Class:</b>	A
<b>Class Description:</b>	A Responsible Party (RP) for the release has not yet been determined		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	181255600.0	<b>Date Reported:</b>	10/11/1991
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	FORMER TRUCK TERM
<b>Facility:</b>	18010257 (FORMER TRUCK TERMINAL)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#11378">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#11378</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33535">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33535</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73177
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S81
<b>Label:</b>	18010257 - N00001 FORMER TRUCK TERM	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18010257 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	6601 Storer Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73177
<b>ZIP Out:</b>	44102-5319	<b>Y:</b>	41.46188
<b>Lat:</b>	41.46188		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	21795	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18010257	<b>Address:</b>	6601 STORER
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	6 Closure of regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.46216
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.73162
<b>Current Fac Name:</b>	FORMER TRUCK TERM		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	14615	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	181255600.0	<b>LTF:</b>	6 Closure of regulated UST
<b>Last Review Date:</b>	5/28/2010	<b>Rating:</b>	4
<b>Release Date:</b>	10/11/1991	<b>Facility Name:</b>	FORMER TRUCK TERMINAL
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	6601 STORER
<b>Last Update Date:</b>	4/16/2021	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	5/28/2010	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.462163
<b>Class:</b>	A	<b>Facility Longitude:</b>	-81.731618
<b>Rules:</b>	2005		

<a href="#">27</a>	1 of 2	NE	0.27 / 1,449.50	677.25 / -22	AMKOR AUTO SERV (BP OIL #U0041) 6409 CLARK AVE CLEVELAND OH 44102	LUST
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<b>Release No:</b>	18010746 - N00001	<b>Release No (Map):</b>	18010746-N00001
<b>Facility Name:</b>	AMKOR AUTO SERV (BP OIL #U0041)	<b>Fac Name (Map):</b>	AMKOR AUTO SERV

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>Facility Address:</b>	6409 CLARK AVE				<b>Fac Address (Map):</b>	6409 CLARK AVE
<b>Facility City:</b>	CLEVELAND				<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio				<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102				<b>County (Map):</b>	
<b>County:</b>	Cuyahoga				<b>Latitude (Map):</b>	41.46928
<b>Facility Latitude:</b>	41.469463				<b>Longitude (Map):</b>	-81.72965
<b>Facility Longitude:</b>	-81.729413				<b>Fac ID (BUSTR2):</b>	18010746
<b>Release No (OTTER):</b>	18010746-N00001				<b>IncidentID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	AMKOR AUTO SERV (BP OIL #U0041)				<b>Fac Name (BUSTR2):</b>	AMKOR AUTO SERV
<b>FacAddress (OTTER):</b>	6409 CLARK AVE				<b>Address (BUSTR2):</b>	6409 CLARK AVE
<b>Fac City (OTTER):</b>	CLEVELAND				<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>					<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102				<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga				<b>Latitude (BUSTR2):</b>	41.46946
<b>Latitude (OTTER):</b>					<b>Longitude (BUSTR2):</b>	-81.72941
<b>Longitude (OTTER):</b>					<b>Release No (BUSTR):</b>	18010746-N00001
<b>Fac Name (BUSTR):</b>	AMKOR AUTO SERV (BP OIL #U0041)				<b>Fac Addr (BUSTR):</b>	6409 CLARK AVE
<b>Fac City (BUSTR):</b>	CLEVELAND				<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102				<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.469463				<b>Longitude (BUSTR):</b>	-81.729413
<b>Facility (OTTER):</b>	18010746 (AMKOR AUTO SERV (BP OIL #U0041))					
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)					

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	9/18/2013
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	09/18/2013
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	03/15/1991	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	181072401.0	<b>Date Reported:</b>	3/15/1991
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	AMKOR AUTO SERV
<b>Facility:</b>	18010746 (AMKOR AUTO SERV (BP OIL #U0041))		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#14028">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#14028</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34021">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34021</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.72965
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18010746 - N00001 AMKOR AUTO SERV	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18010746 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	6409 Clark Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.72965
<b>ZIP Out:</b>	44102-5301	<b>Y:</b>	41.46928
<b>Lat:</b>	41.46928		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	22125	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18010746	<b>Address:</b>	6409 CLARK AVE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.46946
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.72941
<b>Current Fac Name:</b>	AMKOR AUTO SERV		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**All Active-Inactive BUSTR Sites**

<b>S No:</b>	1937	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	181072401.0	<b>LTF:</b>	1 SUS/CON from regulated UST
<b>Last Review Date:</b>	9/18/2013	<b>Rating:</b>	22
<b>Release Date:</b>	3/15/1991	<b>Facility Name:</b>	AMKOR AUTO SERV (BP OIL #U0041)
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	6409 CLARK AVE
<b>Last Update Date:</b>	6/9/2021	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	9/18/2013	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.469463
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.729413
<b>Rules:</b>	1999		

<a href="#">27</a>	2 of 2	NE	0.27 / 1,449.50	677.25 / -22	East Ohio Gas Vault (Off-Site Impact) 6409 CLARK AVE CLEVELAND OH 44102	LUST
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<b>Release No:</b>	18010185 - N00001	<b>Release No (Map):</b>	18010185-N00001
<b>Facility Name:</b>	East Ohio Gas Vault (Off-Site Impact)	<b>Fac Name (Map):</b>	East Ohio Gas Vault (Off-Site Impact)
<b>Facility Address:</b>	6409 CLARK AVE	<b>Fac Address (Map):</b>	6409 CLARK AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.46928
<b>Facility Latitude:</b>	41.469463	<b>Longitude (Map):</b>	-81.72965
<b>Facility Longitude:</b>	-81.729413	<b>Fac ID (BUSTR2):</b>	18010185
<b>Release No (OTTER):</b>	18010185-N00001	<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	East Ohio Gas Vault (Off-Site Impact)	<b>Fac Name (BUSTR2):</b>	UNKNOWN (E OHIO GAS CO)
<b>FacAddress (OTTER):</b>	6409 CLARK AVE	<b>Address (BUSTR2):</b>	6409 CLARK AVE
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.46946
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.72941
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18010185-N00001
<b>Fac Name (BUSTR):</b>	East Ohio Gas Vault (Off-Site Impact)	<b>Fac Addr (BUSTR):</b>	6409 CLARK AVE
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.469463	<b>Longitude (BUSTR):</b>	-81.729413
<b>Facility (OTTER):</b>	18010185 (East Ohio Gas Vault (Off-Site Impact))		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)		

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Active	<b>Date Last Change:</b>	5/28/2014
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	09/08/2022
<b>FR Status:</b>	RPT: a possible incident is reported	<b>Priority:</b>	2
<b>Release Date:</b>	03/27/1991	<b>Class:</b>	B
<b>Class Description:</b>	The result of the RP Search was inconclusive		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	181072400.0	<b>Date Reported:</b>	3/27/1991
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	UNKNOWN (E OHIO GAS CO)
<b>Facility:</b>	18010185 (East Ohio Gas Vault (Off-Site Impact))		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#10746">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#10746</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33457">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33457</a>		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.72965
<b>FR Status:</b>	RPT: a possible incident is reported	<b>Match:</b>	S80
<b>Label:</b>	18010185 - N00001 East Ohio Gas Vault (Off-Site Impact)	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18010185 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	6409 Clark Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.72965
<b>ZIP Out:</b>	44102-5301	<b>Y:</b>	41.46928
<b>Lat:</b>	41.46928		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	11864	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18010185	<b>Address:</b>	6409 CLARK AVE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>County:</b>	CUY
<b>Status:</b>	RPT: a possible incident is reported	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Active	<b>Latitude DD Begin:</b>	41.46946
<b>Data Date:</b>	2014-11-10 14:15:06.177	<b>Longitude DD Begin:</b>	-81.72941
<b>Current Fac Name:</b>	UNKNOWN (E OHIO GAS CO)		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	11470	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	181072400.0	<b>LTF:</b>	1 SUS/CON from regulated UST
<b>Last Review Date:</b>	9/8/2022	<b>Rating:</b>	24
<b>Release Date:</b>	3/27/1991	<b>Facility Name:</b>	East Ohio Gas Vault (Off-Site Impact)
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	6409 CLARK AVE
<b>Last Update Date:</b>	9/8/2022	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	RPT: a possible incident is reported	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	5/28/2014	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.469463
<b>Class:</b>	B	<b>Facility Longitude:</b>	-81.729413
<b>Rules:</b>	2017		

<a href="#">28</a>	1 of 2	NE	0.28 / 1,482.46	677.05 / -22	AMKOR AUTO SERV 6409 CLARK AVE CLEVELAND OH 44102-5301	DELISTED LST
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**Delisted Petroleum Release List**

<b>Incident No:</b>		<b>Priority:</b>	2
<b>S. No:</b>	336	<b>Class Code:</b>	D
<b>Release No:</b>	18010746 - N00001	<b>Class Desc:</b>	A viable RP has been identified
<b>Release Date:</b>	03/15/1991	<b>Rules:</b>	1999
<b>Release Status:</b>		<b>Coordinator:</b>	Charles Zepp
<b>Facility Status:</b>		<b>Rating:</b>	22
<b>Sub Status:</b>	Approved	<b>County:</b>	Cuyahoga
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Facility Latitude:</b>	
<b>FR Status:</b>	TR2: Tier 2	<b>Facility Longitude:</b>	
<b>Last Update:</b>	Charles Zepp	<b>Source Name(s):</b>	
<b>Last Update Date:</b>	07-MAR-13	<b>Source List:</b>	
<b>Last Status Update:</b>	01/07/2013	<b>Original Source:</b>	NLUT
<b>Review Date:</b>		<b>Record Date:</b>	Up to Aug 2013
<b>Date Unknown:</b>	03/07/2013		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<a href="#">28</a>	2 of 2	NE	0.28 / 1,482.46	677.05 / -22	East Ohio Gas Vault (Off-Site Impact) 6409 CLARK AVE CLEVELAND OH 44102	DELISTED LST

**Delisted Regulated and Non-Regulated Leaking Underground Storage Tanks (LUST)**

<b>Incident No:</b>	181072400.0	<b>Class:</b>	B
<b>Release No:</b>	18010185 - N00001	<b>Class Desc:</b>	The result of the RP Search was inconclusive
<b>Status:</b>	RPT: a possible incident is reported	<b>Rules:</b>	2017
<b>Sub Status:</b>	Approved	<b>Coordinator:</b>	Charles Zepp
<b>Release Date:</b>	3/15/1991	<b>County:</b>	Cuyahoga
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>Facility Latitude:</b>	41.469463
<b>Last Update:</b>	Charles Zepp	<b>Facility Longitude:</b>	-81.729413
<b>Last Update Date:</b>	11/21/2018	<b>Original Source:</b>	NLUT
<b>Last Status Update:</b>	5/28/2014	<b>Record Date:</b>	14-JAN-2019
<b>Priority:</b>	2		

<a href="#">29</a>	1 of 1	SW	0.31 / 1,623.11	743.87 / 44	FORMER SUNOCO 0001-7403 7403 DENISON AVE CLEVELAND OH 44101	LUST
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<b>Release No:</b>	18010145 - N00001	<b>Release No (Map):</b>	18010145-N00001
<b>Facility Name:</b>	FORMER SUNOCO 0001-7403	<b>Fac Name (Map):</b>	FORMER SUNOCO 0001-7403
<b>Facility Address:</b>	7403 DENISON AVE	<b>Fac Address (Map):</b>	7403 DENISON AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44101
<b>Facility ZIP:</b>	44101	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.46241
<b>Facility Latitude:</b>	41.462634	<b>Longitude (Map):</b>	-81.73961
<b>Facility Longitude:</b>	-81.739345	<b>Fac ID (BUSTR2):</b>	18010145
<b>Release No (OTTER):</b>	18010145-N00001	<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	FORMER SUNOCO 0001-7403	<b>Fac Name (BUSTR2):</b>	FORMER SUNOCO 0001-7403
<b>FacAddress (OTTER):</b>	7403 DENISON AVE	<b>Address (BUSTR2):</b>	7403 DENISON AVE
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44101
<b>Fac ZIP (OTTER):</b>	44101	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.46263
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.73935
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18010145-N00001
<b>Fac Name (BUSTR):</b>	FORMER SUNOCO 0001-7403	<b>Fac Addr (BUSTR):</b>	7403 DENISON AVE
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44101	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.462634	<b>Longitude (BUSTR):</b>	-81.739345
<b>Facility (OTTER):</b>	18010145 (FORMER SUNOCO 0001-7403)		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)		

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	4/9/2003
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	04/09/2003
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	12/19/1990	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	180298200.0	<b>Date Reported:</b>	12/19/1990
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	FORMER SUNOCO 0001-7403
<b>Facility:</b>	18010145 (FORMER SUNOCO 0001-7403)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#10675">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#10675</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33415">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33415</a>		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73961
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S90
<b>Label:</b>	18010145 - N00001 FORMER SUNOCO 0001-7403	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18010145 - N00001	<b>Facility Z:</b>	44101
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	7403 Denison Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73961
<b>ZIP Out:</b>	44102-5202	<b>Y:</b>	41.46241
<b>Lat:</b>	41.46241		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	21695	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18010145	<b>Address:</b>	7403 DENISON AVE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44101
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.46263
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.73935
<b>Current Fac Name:</b>	FORMER SUNOCO 0001-7403		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	14524	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	180298200.0	<b>LTF:</b>	1 SUS/CON from regulated UST
<b>Last Review Date:</b>	4/9/2003	<b>Rating:</b>	9
<b>Release Date:</b>	12/19/1990	<b>Facility Name:</b>	FORMER SUNOCO 0001-7403
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	7403 DENISON AVE
<b>Last Update Date:</b>	3/26/2021	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	4/9/2003	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44101
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.462634
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.739345
<b>Rules:</b>	1999		

<a href="#">30</a>	1 of 1	<b>NE</b>	<b>0.32 / 1,710.12</b>	<b>685.28 / -14</b>	<b>FORMER 5 POINT AUTOBODY 6412 WALWORTH AVE CLEVELAND OH 44102</b>	<b>LUST</b>
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<b>Release No:</b>	18010463 - N00001	<b>Release No (Map):</b>	18010463-N00001
<b>Facility Name:</b>	FORMER 5 POINT AUTOBODY	<b>Fac Name (Map):</b>	FORMER 5 POINT AUTOBODY
<b>Facility Address:</b>	6412 WALWORTH AVE	<b>Fac Address (Map):</b>	6412 WALWORTH AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.471642
<b>Facility Latitude:</b>	41.470199	<b>Longitude (Map):</b>	-81.72681
<b>Facility Longitude:</b>	-81.729477	<b>Fac ID (BUSTR2):</b>	18010463
<b>Release No (OTTER):</b>	18010463-N00001	<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	FORMER 5 POINT AUTOBODY	<b>Fac Name (BUSTR2):</b>	FORMER 5 POINT AUTOBODY
<b>FacAddress (OTTER):</b>	6412 WALWORTH AVE	<b>Address (BUSTR2):</b>	6412 WALWORTH AVE
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.4702
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.72948
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18010463-N00001
<b>Fac Name (BUSTR):</b>	FORMER 5 POINT AUTOBODY	<b>Fac Addr (BUSTR):</b>	6412 WALWORTH AVE
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Fac ZIP (BUSTR):</b>	44102				<b>Fac County (BUSTR):</b> Cuyahoga	
<b>Latitude (BUSTR):</b>	41.470199				<b>Longitude (BUSTR):</b> -81.729477	
<b>Facility (OTTER):</b>	18010463 (FORMER 5 POINT AUTOBODY)					
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)					

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	2/2/1998
<b>LTF Status:</b>	6 Closure of regulated UST	<b>Review Date:</b>	02/02/1998
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	12/22/1997	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	187129900.0	<b>Date Reported:</b>	12/22/1997
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	FORMER 5 POINT AUTOBODY
<b>Facility:</b>	18010463 (FORMER 5 POINT AUTOBODY)		
<b>Facility Link:</b>	https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#13480		
<b>Release Link:</b>	https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33740		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.72681
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18010463 - N00001 FORMER 5 POINT AUTOBODY	<b>LOC QUAL:</b>	AS0
<b>Release No:</b>	18010463 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	2
<b>Address Out:</b>	6412 Walworth Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.72681
<b>ZIP Out:</b>	44102	<b>Y:</b>	41.471642
<b>Lat:</b>	41.471642		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	21914	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18010463	<b>Address:</b>	6412 WALWORTH AVE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	6 Closure of regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.4702
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.72948
<b>Current Fac Name:</b>	FORMER 5 POINT AUTOBODY		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	13113	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	187129900.0	<b>LTF:</b>	6 Closure of regulated UST
<b>Last Review Date:</b>	2/2/1998	<b>Rating:</b>	
<b>Release Date:</b>	12/22/1997	<b>Facility Name:</b>	FORMER 5 POINT AUTOBODY
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	6412 WALWORTH AVE
<b>Last Update Date:</b>	5/18/2021	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	2/2/1998	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.470199
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.729477
<b>Rules:</b>	1992		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<a href="#">31</a>	1 of 2	SW	0.33 / 1,741.26	727.75 / 28	TECHNICAL PRODUCTS, INC. 3500 RIDGE RD CLEVELAND OH 44102	DELISTED LST

**Delisted Regulated and Non-Regulated Leaking Underground Storage Tanks (LUST)**

<b>Incident No:</b>		<b>Class:</b>	D
<b>Release No:</b>	18001262 - N00001	<b>Class Desc:</b>	A viable RP has been identified
<b>Status:</b>	NFA: No Further Action	<b>Rules:</b>	1999
<b>Sub Status:</b>		<b>Coordinator:</b>	Charles Zepp
<b>Release Date:</b>	2/22/2001	<b>County:</b>	Cuyahoga
<b>LTF:</b>	7 SUS/CON from regulated HAZ UST	<b>Facility Latitude:</b>	41.460698
<b>Last Update:</b>		<b>Facility Longitude:</b>	-81.738625
<b>Last Update Date:</b>	4/28/2012	<b>Original Source:</b>	NLUT
<b>Last Status Update:</b>	9/27/2007	<b>Record Date:</b>	09-OCT-2019
<b>Priority:</b>			

<a href="#">31</a>	2 of 2	SW	0.33 / 1,741.26	727.75 / 28	TECHNICAL PRODUCTS, INC. 3500 RIDGE RD CLEVELAND OH 44102	LUST
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<b>Release No:</b>	18001262 - N00001	<b>Release No (Map):</b>	18001262-N00001
<b>Facility Name:</b>	TECHNICAL PRODUCTS, INC.	<b>Fac Name (Map):</b>	TECHNICAL PRODUCTS, INC.
<b>Facility Address:</b>	3500 RIDGE RD	<b>Fac Address (Map):</b>	3500 RIDGE RD
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.46139
<b>Facility Latitude:</b>	41.460698	<b>Longitude (Map):</b>	-81.73874
<b>Facility Longitude:</b>	-81.738625	<b>Fac ID (BUSTR2):</b>	
<b>Release No (OTTER):</b>		<b>IncidntID (BUSTR2):</b>	
<b>Fac Name (OTTER):</b>		<b>Fac Name (BUSTR2):</b>	
<b>FacAddress (OTTER):</b>		<b>Address (BUSTR2):</b>	
<b>Fac City (OTTER):</b>		<b>City (BUSTR2):</b>	
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	
<b>Fac ZIP (OTTER):</b>		<b>County (BUSTR2):</b>	
<b>County (OTTER):</b>		<b>Latitude (BUSTR2):</b>	
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	
<b>Fac Name (BUSTR):</b>		<b>Fac Addr (BUSTR):</b>	
<b>Fac City (BUSTR):</b>		<b>Fac State (BUSTR):</b>	
<b>Fac ZIP (BUSTR):</b>		<b>Fac County (BUSTR):</b>	
<b>Latitude (BUSTR):</b>		<b>Longitude (BUSTR):</b>	
<b>Facility (OTTER):</b>			
<b>Data Source:</b>	Map Services Directory: BUSTR (MapServer): All Environmental (MAP)		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73874
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18001262 - N00001 TECHNICAL PRODUCTS, INC.	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18001262 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	3500 Ridge Rd	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73874
<b>ZIP Out:</b>	44102-5444	<b>Y:</b>	41.46139
<b>Lat:</b>	41.46139		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	36962	<b>Coordinator:</b>	Charles Zepp
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Incident No:</b>				<b>LTF:</b>	7 SUS/CON from regulated HAZ UST	
<b>Last Review Date:</b>	9/27/2007			<b>Rating:</b>	14	
<b>Release Date:</b>	2/22/2001			<b>Facility Name:</b>	TECHNICAL PRODUCTS, INC.	
<b>Last Update:</b>				<b>Facility Address:</b>	3500 RIDGE RD	
<b>Last Update Date:</b>	4/28/2012			<b>Facility City:</b>	CLEVELAND	
<b>Status:</b>	NFA: No Further Action			<b>Facility State:</b>	Ohio	
<b>Last Status Update:</b>	9/27/2007			<b>County:</b>	Cuyahoga	
<b>Substatus:</b>				<b>Facility ZIP:</b>	44102	
<b>Priority:</b>				<b>Facility Latitude:</b>	41.460698	
<b>Class:</b>	D			<b>Facility Longitude:</b>	-81.738625	
<b>Rules:</b>	1999					

[32](#) 1 of 4 NE 0.35 / 1,858.34 689.21 / -10 Max Hayes Technical School, Cleveland 2211 W 65th St W 65th St & Clark Ave Cleveland OH 44102- DERR

**DERR ID:** 218003125 **County:** Cuyahoga  
**CERCLIS ID:** **District:** NEDO  
**Program:** VAP **Latitude:**  
**Program Desc:** Voluntary Action Program **Longitude:**  
**Address (REST):** 2211 W 65th St W 65th St & Clark Ave **Cerclis IID (REST):**  
**City (REST):** Cleveland **OepaDstrct (REST):** NEDO  
**Zip (REST):** 44102- **Activity (REST):** VAP  
**County (REST):** Cuyahoga **DERR ID (REST):** 218003125  
**LatDd Begin (REST):** 41.470956 **LonDd Begin (REST):** -81.729595  
**Source:** Ohio EPA: DERR Database; REST Services Directory: DERR Database (OEPA-DERR)  
**Name (REST):** Max Hayes Technical School, Cleveland

**REST Services Directory: DERR Database (OEPA-DERR)**

**Cerclis ID:** **Address:** 2211 W 65th St W 65th St & Clark Ave  
**Alias:** **City:** Cleveland  
**Activity:** VAP **Zip:** 44102-  
**ODoT District:** 12 **Latitude DD Begin:** 41.470956  
**OEPA District:** NEDO **Longitude DD Begin:** -81.729595  
**County:** Cuyahoga  
**Name:** Max Hayes Technical School, Cleveland

[32](#) 2 of 4 NE 0.35 / 1,858.34 689.21 / -10 Max Hayes Technical School, Cleveland 2211 W 65th St W 65th St & Clark Ave Cleveland OH 44102- VCP

**Site ID:** 218003125 **Site ID (Map):** 218003125  
**County:** Cuyahoga **County (Map):** Cuyahoga  
**EPA District:** NEDO **OEPA District (Map):** NEDO  
**Latitude:** **Latitude (Map):** 41.4716  
**Longitude:** **Longitude (Map):** -81.730079  
**Name:** Max Hayes Technical School, Cleveland  
**Street Address:** 2211 W 65th St  
**Street Address 2:** W 65th St & Clark Ave  
**City:** Cleveland  
**Postal Code:** 44102-  
**Name (Map):** Max Hayes Technical School, Cleveland  
**Address (Map):** 2211 W 65th St  
**Address2 (Map):** W 65th St & Clark Ave  
**City (Map):** Cleveland  
**ZIP code (Map):** 44102-  
**Source:** Ohio EPA: List of All VAP Sites; REST Services Directory: VAP Sites (OEPA-DERR)

**Ohio EPA Details**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Alias Name:  
 Old Program ID:  
 Project Type Desc: VAP Annual Institutional Control Reporting

Alias Name:  
 Old Program ID:  
 Project Type Desc: VAP Audit

Alias Name:  
 Old Program ID:  
 Project Type Desc: VAP Technical Assistance

Alias Name:  
 Old Program ID: 15NFA632  
 Project Type Desc: NFA 90 Day

Alias Name:  
 Old Program ID:  
 Project Type Desc: VAP Operation & Maintenance

Alias Name:  
 Old Program ID:  
 Project Type Desc: VAP Institutional Control Inspection

**Map Details**

Old Program ID: Latitude DD Begin: 41.4716  
 Project Type: VAP Technical Assistance Longitude DD Begin: -81.730079  
 ODoT District: 12

Old Program ID: Latitude DD Begin: 41.4716  
 Project Type: VAP Audit Longitude DD Begin: -81.730079  
 ODoT District: 12

Old Program ID: 15NFA632 Latitude DD Begin: 41.4716  
 Project Type: NFA 90 Day Longitude DD Begin: -81.730079  
 ODoT District: 12

<a href="#">32</a>	3 of 4	NE	0.35 / 1,858.34	689.21 / -10	Max Hayes Technical School, Cleveland 2211 West 65th St Cleveland OH	VAP CNS
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Core Place ID: 447968 Bustr Cleanup NFA:  
 Parent ID: 218003125 Dt Notice Snt Bustr:  
 Project ID: 218003125002 Days Start to Fin: 562  
 NFA No: 15NFA632 End Date: 3/15/2017  
 Status: Issued Acreage: 13.81  
 Type: NFA 90 Day District: NEDO  
 CP No: CP105 County: Cuyahoga  
 CP Name: Knecht, M Submitted Lat:  
 Funding Code: VFEE Submitted Long:  
 Received: 8/31/2015 Latitude:  
 Start Date: 8/31/2015 Longitude:  
 Work Activity: Max Hayes Tech School Clev - NFA90 - 218003125002  
 Comments:

<a href="#">32</a>	4 of 4	NE	0.35 / 1,858.34	689.21 / -10	Max Hayes Technical School, Cleveland 2211 W 65th St Cleveland OH 44102-	INST
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Site ID: 218003125 County: Cuyahoga  
 Project ID: 218003125002 Latitude:  
 District: NEDO Longitude:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Data Source: Ohio EPA: List of All Institutional Controls; REST Services Directory: Institutional Controls (OEPA-DERR)

**Ohio EPA Details**

<b>NFA No:</b>		<b>Program Area:</b>	VAP
<b>Land Use:</b>		<b>Program Area Desc:</b>	Voluntary Action Program
<b>Project Type:</b>	NFA 90 Day		
<b>IC Type:</b>	Potable & Non-potable GW Extraction/Use Restriction		
<b>IC Mechanism:</b>	Environmental Covennant IAW UECA		

<b>NFA No:</b>		<b>Program Area:</b>	VAP
<b>Land Use:</b>		<b>Program Area Desc:</b>	Voluntary Action Program
<b>Project Type:</b>	NFA 90 Day		
<b>IC Type:</b>	Modified Residential Use Restriction		
<b>IC Mechanism:</b>	Environmental Covennant IAW UECA		

**Map Details**

<b>NFA No:</b>		<b>ODoT District:</b>	12
<b>Land Use:</b>		<b>OEPA District:</b>	NEDO
<b>Control Type:</b>	Institutional	<b>County:</b>	Cuyahoga
<b>Project Type:</b>	NFA 90 Day	<b>ZIP code:</b>	44102-
<b>Program Area:</b>	VAP	<b>Latitude DD Begin:</b>	41.4716
<b>Program Area Desc:</b>	Voluntary Action Program	<b>Longitude DD Begin:</b>	-81.730079
<b>Name:</b>	Max Hayes Technical School, Cleveland		
<b>Address:</b>	2211 W 65th St		
<b>City:</b>	Cleveland		
<b>IC Type:</b>	Potable & Non-potable GW Extraction/Use Restriction		
<b>IC Mechanism:</b>	Environmental Covennant IAW UECA		

<b>NFA No:</b>		<b>ODoT District:</b>	12
<b>Land Use:</b>		<b>OEPA District:</b>	NEDO
<b>Control Type:</b>	Institutional	<b>County:</b>	Cuyahoga
<b>Project Type:</b>	NFA 90 Day	<b>ZIP code:</b>	44102-
<b>Program Area:</b>	VAP	<b>Latitude DD Begin:</b>	41.4716
<b>Program Area Desc:</b>	Voluntary Action Program	<b>Longitude DD Begin:</b>	-81.730079
<b>Name:</b>	Max Hayes Technical School, Cleveland		
<b>Address:</b>	2211 W 65th St		
<b>City:</b>	Cleveland		
<b>IC Type:</b>	Modified Residential Use Restriction		
<b>IC Mechanism:</b>	Environmental Covennant IAW UECA		

<a href="#">33</a>	1 of 2	SE	0.38 / 1,981.20	704.43 / 5	STORER GAS 6225 STORER AVE CLEVELAND OH 44102	LUST
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<b>Release No:</b>	18008369 - N00001	<b>Release No (Map):</b>	18008369-N00001
<b>Facility Name:</b>	STORER GAS	<b>Fac Name (Map):</b>	ONE STOP SUNOCO #1
<b>Facility Address:</b>	6225 STORER AVE	<b>Fac Address (Map):</b>	6225 STORER AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	CUY
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.46206
<b>Facility Latitude:</b>	41.46206	<b>Longitude (Map):</b>	-81.72892
<b>Facility Longitude:</b>	-81.72906	<b>Fac ID (BUSTR2):</b>	18008369
<b>Release No (OTTER):</b>	18008369-N00001	<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	STORER GAS	<b>Fac Name (BUSTR2):</b>	ONE STOP SUNOCO #1
<b>FacAddress (OTTER):</b>	6225 STORER AVE	<b>Address (BUSTR2):</b>	6225 STORER AVE
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>	OH	<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.46206
<b>Latitude (OTTER):</b>	41.46206	<b>Longitude (BUSTR2):</b>	-81.72906
<b>Longitude (OTTER):</b>	-81.72906	<b>Release No (BUSTR):</b>	18008369-N00001
<b>Fac Name (BUSTR):</b>	STORER GAS	<b>Fac Addr (BUSTR):</b>	6225 STORER AVE
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Fac ZIP (BUSTR):</b>	44102				<b>Fac County (BUSTR):</b> Cuyahoga	
<b>Latitude (BUSTR):</b>	41.46206				<b>Longitude (BUSTR):</b> -81.72906	
<b>Facility (OTTER):</b>	18008369 (STORER GAS)					
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)					

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Active	<b>Date Last Change:</b>	9/28/2015
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	07/01/2022
<b>FR Status:</b>	T2E: Tier 2 Evaluation	<b>Priority:</b>	2
<b>Release Date:</b>	02/26/1997	<b>Class:</b>	E
<b>Class Description:</b>	Referred to enforcement		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	187014200.0	<b>Date Reported:</b>	2/26/1997
<b>Tank Status:</b>	Both	<b>Owner Busi Name:</b>	6225 PROPERTIES LLC
<b>Facility:</b>	18008369 (STORER GAS)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#8372">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#8372</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34665">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34665</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.72892
<b>FR Status:</b>	T2E: Tier 2 Evaluation	<b>Match:</b>	S80
<b>Label:</b>	18008369 - N00001 ONE STOP SUNOCO #1	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18008369 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	6225 Storer Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.72892
<b>ZIP Out:</b>	44102-5522	<b>Y:</b>	41.46206
<b>Lat:</b>	41.46206		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	11826	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18008369	<b>Address:</b>	6225 STORER AVE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>County:</b>	CUY
<b>Status:</b>	T1S: Tier 1 Source Investigation	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Active	<b>Latitude DD Begin:</b>	41.46206
<b>Data Date:</b>	2014-11-10 14:15:06.177	<b>Longitude DD Begin:</b>	-81.72906
<b>Current Fac Name:</b>	ONE STOP SUNOCO #1		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	36045	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	187014200.0	<b>LTF:</b>	1 SUS/CON from regulated UST
<b>Last Review Date:</b>	7/1/2022	<b>Rating:</b>	21
<b>Release Date:</b>	2/26/1997	<b>Facility Name:</b>	STORER GAS
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	6225 STORER AVE
<b>Last Update Date:</b>	7/1/2022	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	T2E: Tier 2 Evaluation	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	9/28/2015	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Required	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.46206
<b>Class:</b>	E	<b>Facility Longitude:</b>	-81.72906
<b>Rules:</b>	2012		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<a href="#">33</a>	2 of 2	SE	0.38 / 1,981.20	704.43 / 5	ONE STOP SUNOCO #1 6225 STORER AVE CLEVELAND OH 44102	DELISTED LST

**Delisted Regulated and Non-Regulated Leaking Underground Storage Tanks (LUST)**

<b>Incident No:</b>	187014200.0	<b>Class:</b>	E
<b>Release No:</b>	18008369 - N00001	<b>Class Desc:</b>	Referred to enforcement
<b>Status:</b>	T2E: Tier 2 Evaluation	<b>Rules:</b>	2012
<b>Sub Status:</b>	Required	<b>Coordinator:</b>	Charles Zepp
<b>Release Date:</b>	2/26/1997	<b>County:</b>	Cuyahoga
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>Facility Latitude:</b>	41.46206
<b>Last Update:</b>	Charles Zepp	<b>Facility Longitude:</b>	-81.72906
<b>Last Update Date:</b>	1/4/2019	<b>Original Source:</b>	NLUT
<b>Last Status Update:</b>	9/28/2015	<b>Record Date:</b>	14-JAN-2019
<b>Priority:</b>	2		

<a href="#">34</a>	1 of 2	ENE	0.39 / 2,079.40	688.54 / -11	U HAUL CO. 6000 CLARK AVE CLEVELAND OH 44102-4495	LUST
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<b>Release No:</b>	18000528 - N00001	<b>Release No (Map):</b>	18000528-N00001
<b>Facility Name:</b>	U HAUL CO.	<b>Fac Name (Map):</b>	U HAUL CO.
<b>Facility Address:</b>	6000 CLARK AVE	<b>Fac Address (Map):</b>	6000 CLARK AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	
<b>Facility ZIP:</b>	44102-4495	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.469792
<b>Facility Latitude:</b>	41.469737	<b>Longitude (Map):</b>	-81.727031
<b>Facility Longitude:</b>	-81.727781	<b>Fac ID (BUSTR2):</b>	18000528
<b>Release No (OTTER):</b>	18000528-N00001	<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	U HAUL CO.	<b>Fac Name (BUSTR2):</b>	U HAUL CO.
<b>FacAddress (OTTER):</b>	6000 CLARK AVE	<b>Address (BUSTR2):</b>	6000 CLARK AVE
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102-4495
<b>Fac ZIP (OTTER):</b>	44102-4495	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.46974
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.72778
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18000528-N00001
<b>Fac Name (BUSTR):</b>	U HAUL CO.	<b>Fac Addr (BUSTR):</b>	6000 CLARK AVE
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102-4495	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.469737	<b>Longitude (BUSTR):</b>	-81.727781
<b>Facility (OTTER):</b>	18000528 (U HAUL CO.)		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGRIIP) (BUSTR2)		

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	3/30/1993
<b>LTF Status:</b>	6 Closure of regulated UST	<b>Review Date:</b>	03/30/1993
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	12/18/1992	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	182316900.0	<b>Date Reported:</b>	12/18/1992
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	U-HAUL CO. OF CLEVELAND
<b>Facility:</b>	18000528 (U HAUL CO.)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#22817">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#22817</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=35370">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=35370</a>		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.727031
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18000528 - N00001 U HAUL CO.	<b>LOC QUAL:</b>	ASO
<b>Release No:</b>	18000528 - N00001	<b>Facility Z:</b>	
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	2
<b>Address Out:</b>	6000 Clark Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.727031
<b>ZIP Out:</b>	44102-4429	<b>Y:</b>	41.469792
<b>Lat:</b>	41.469792		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	17877	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18000528	<b>Address:</b>	6000 CLARK AVE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	6 Closure of regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102-4495
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.46974
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.72778
<b>Current Fac Name:</b>	U HAUL CO.		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	38528	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	182316900.0	<b>LTF:</b>	6 Closure of regulated UST
<b>Last Review Date:</b>	3/30/1993	<b>Rating:</b>	0
<b>Release Date:</b>	12/18/1992	<b>Facility Name:</b>	U HAUL CO.
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	6000 CLARK AVE
<b>Last Update Date:</b>	9/25/2020	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	3/30/1993	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44102-4495
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.469737
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.727781
<b>Rules:</b>	1992		

<a href="#">34</a>	2 of 2	<b>ENE</b>	<b>0.39 / 2,079.40</b>	<b>688.54 / -11</b>	<b>U HAUL CO. 6000 CLARK AVE CLEVELAND OH 44102-4495</b>	<b>LUST</b>
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<b>Release No:</b>	18000528 - N00002	<b>Release No (Map):</b>	18000528-N00002
<b>Facility Name:</b>	U HAUL CO.	<b>Fac Name (Map):</b>	U HAUL CO.
<b>Facility Address:</b>	6000 CLARK AVE	<b>Fac Address (Map):</b>	6000 CLARK AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	
<b>Facility ZIP:</b>	44102-4495	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.469792
<b>Facility Latitude:</b>	41.469737	<b>Longitude (Map):</b>	-81.727031
<b>Facility Longitude:</b>	-81.727781	<b>Fac ID (BUSTR2):</b>	18000528
<b>Release No (OTTER):</b>	18000528-N00002	<b>IncidentID (BUSTR2):</b>	N00002
<b>Fac Name (OTTER):</b>	U HAUL CO.	<b>Fac Name (BUSTR2):</b>	U HAUL CO.
<b>FacAddress (OTTER):</b>	6000 CLARK AVE	<b>Address (BUSTR2):</b>	6000 CLARK AVE
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102-4495
<b>Fac ZIP (OTTER):</b>	44102-4495	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.46974
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.72778
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18000528-N00002
<b>Fac Name (BUSTR):</b>	U HAUL CO.	<b>Fac Addr (BUSTR):</b>	6000 CLARK AVE
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102-4495	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.469737	<b>Longitude (BUSTR):</b>	-81.727781

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Facility (OTTER):** 18000528 (U HAUL CO.)  
**Data Source:** Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer); All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	7/8/2009
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	07/08/2009
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	12/05/2007	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>		<b>Date Reported:</b>	12/5/2007
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	U-HAUL CO. OF CLEVELAND
<b>Facility:</b>	18000528 (U HAUL CO.)		
<b>Facility Link:</b>	https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#22817		
<b>Release Link:</b>	https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=35371		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.727031
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18000528 - N00002 U HAUL CO.	<b>LOC QUAL:</b>	AS0
<b>Release No:</b>	18000528 - N00002	<b>Facility Z:</b>	
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	2
<b>Address Out:</b>	6000 Clark Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.727031
<b>ZIP Out:</b>	44102-4429	<b>Y:</b>	41.469792
<b>Lat:</b>	41.469792		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	17878	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18000528	<b>Address:</b>	6000 CLARK AVE
<b>Incident ID:</b>	N00002	<b>City:</b>	CLEVELAND
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102-4495
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.46974
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.72778
<b>Current Fac Name:</b>	U HAUL CO.		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	38546	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>		<b>LTF:</b>	1 SUS/CON from regulated UST
<b>Last Review Date:</b>	7/8/2009	<b>Rating:</b>	13
<b>Release Date:</b>	12/5/2007	<b>Facility Name:</b>	U HAUL CO.
<b>Last Update:</b>		<b>Facility Address:</b>	6000 CLARK AVE
<b>Last Update Date:</b>	4/28/2012	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	7/8/2009	<b>County:</b>	Cuyahoga
<b>Substatus:</b>		<b>Facility ZIP:</b>	44102-4495
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.469737
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.727781
<b>Rules:</b>	2005		

<a href="#">35</a>	1 of 2	NNW	0.39 / 2,084.88	694.14 / -5	BLECKRIE, INC. 7810 LORAIN AVE	LUST
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**CLEVELAND OH 44102**

<b>Release No:</b>	18002458 - N00001	<b>Release No (Map):</b>	18002458-N00001
<b>Facility Name:</b>	BLECKRIE, INC.	<b>Fac Name (Map):</b>	BLECKRIE, INC.
<b>Facility Address:</b>	7810 LORAIN AVE	<b>Fac Address (Map):</b>	7810 LORAIN AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.47211
<b>Facility Latitude:</b>	41.47217	<b>Longitude (Map):</b>	-81.73816
<b>Facility Longitude:</b>	-81.73807	<b>Fac ID (BUSTR2):</b>	18002458
<b>Release No (OTTER):</b>	18002458-N00001	<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	BLECKRIE, INC.	<b>Fac Name (BUSTR2):</b>	BLECKRIE, INC.
<b>FacAddress (OTTER):</b>	7810 LORAIN AVE	<b>Address (BUSTR2):</b>	7810 LORAIN AVE
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.47217
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.73807
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18002458-N00001
<b>Fac Name (BUSTR):</b>	BLECKRIE, INC.	<b>Fac Addr (BUSTR):</b>	7810 LORAIN AVE
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.47217	<b>Longitude (BUSTR):</b>	-81.73807
<b>Facility (OTTER):</b>	18002458 (BLECKRIE, INC.)		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)		

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Active	<b>Date Last Change:</b>	1/4/2013
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	07/08/2022
<b>FR Status:</b>	T1S: Tier 1 Source Investigation	<b>Priority:</b>	2
<b>Release Date:</b>	05/18/1994	<b>Class:</b>	C
<b>Class Description:</b>	The RP is non-viable		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	184059500.0	<b>Date Reported:</b>	5/18/1994
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	BLECKRIE, INC.
<b>Facility:</b>	18002458 (BLECKRIE, INC.)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#23510">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#23510</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33073">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33073</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73816
<b>FR Status:</b>	T1S: Tier 1 Source Investigation	<b>Match:</b>	S80
<b>Label:</b>	18002458 - N00001 BLECKRIE, INC.	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18002458 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	7810 Lorain Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73816
<b>ZIP Out:</b>	44102-4254	<b>Y:</b>	41.47211
<b>Lat:</b>	41.47211		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	11760	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18002458	<b>Address:</b>	7810 LORAIN AVE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>County:</b>	CUY

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Status:</b>	T1S: Tier 1 Source Investigation			<b>ZIP:</b>	44102	
<b>Facility Status:</b>	Active			<b>Latitude DD Begin:</b>	41.47217	
<b>Data Date:</b>	2014-11-10 14:15:06.177			<b>Longitude DD Begin:</b>	-81.73807	
<b>Current Fac Name:</b>	BLECKRIE, INC.					

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	3799	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	184059500.0	<b>LTF:</b>	1 SUS/CON from regulated UST
<b>Last Review Date:</b>	7/8/2022	<b>Rating:</b>	16
<b>Release Date:</b>	5/18/1994	<b>Facility Name:</b>	BLECKRIE, INC.
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	7810 LORAIN AVE
<b>Last Update Date:</b>	7/8/2022	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	T1S: Tier 1 Source Investigation	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	1/4/2013	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Required	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.47217
<b>Class:</b>	C	<b>Facility Longitude:</b>	-81.73807
<b>Rules:</b>	2017		

<a href="#">35</a>	2 of 2	NNW	0.39 / 2,084.88	694.14 / -5	BLECKRIE, INC. 7810 LORAIN AVE CLEVELAND OH 44102	DELISTED LST
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**Delisted Regulated and Non-Regulated Leaking Underground Storage Tanks (LUST)**

<b>Incident No:</b>	184059500.0	<b>Class:</b>	C
<b>Release No:</b>	18002458 - N00001	<b>Class Desc:</b>	The RP is non-viable
<b>Status:</b>	T1S: Tier 1 Source Investigation	<b>Rules:</b>	2017
<b>Sub Status:</b>	Required	<b>Coordinator:</b>	Charles Zepp
<b>Release Date:</b>	5/18/1994	<b>County:</b>	Cuyahoga
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>Facility Latitude:</b>	41.47217
<b>Last Update:</b>	Charles Zepp	<b>Facility Longitude:</b>	-81.73807
<b>Last Update Date:</b>	11/28/2018	<b>Original Source:</b>	NLUT
<b>Last Status Update:</b>	1/4/2013	<b>Record Date:</b>	14-JAN-2019
<b>Priority:</b>	2		

<a href="#">36</a>	1 of 2	SSE	0.42 / 2,236.22	736.69 / 37	GAS USA HANINI 7 OIL INC 6501 DENISON AVE CLEVELAND OH 44102	LUST
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<b>Release No:</b>	18002181 - N00001	<b>Release No (Map):</b>	18002181-N00001
<b>Facility Name:</b>	GAS USA HANINI 7 OIL INC	<b>Fac Name (Map):</b>	GAS USA HANINI 7 OIL INC
<b>Facility Address:</b>	6501 DENISON AVE	<b>Fac Address (Map):</b>	6501 DENISON AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.45943
<b>Facility Latitude:</b>	41.47633	<b>Longitude (Map):</b>	-81.73214
<b>Facility Longitude:</b>	-81.75427	<b>Fac ID (BUSTR2):</b>	18002181
<b>Release No (OTTER):</b>	18002181-N00001	<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	GAS USA HANINI 7 OIL INC	<b>Fac Name (BUSTR2):</b>	GAS USA HANINI 7 OIL INC
<b>FacAddress (OTTER):</b>	6501 DENISON AVE	<b>Address (BUSTR2):</b>	6501 DENISON AVE
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.47633
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.75427
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18002181-N00001
<b>Fac Name (BUSTR):</b>	GAS USA HANINI 7 OIL INC	<b>Fac Addr (BUSTR):</b>	6501 DENISON AVE
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.47633	<b>Longitude (BUSTR):</b>	-81.75427
<b>Facility (OTTER):</b>	18002181 (GAS USA HANINI 7 OIL INC)		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Data Source:** Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OG RIP) (BUSTR2)

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	8/27/2003
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	08/27/2003
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	03/15/1990	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	180069600.0	<b>Date Reported:</b>	3/15/1990
<b>Tank Status:</b>	Both	<b>Owner Busi Name:</b>	HANINI 7 OIL/ GAS USA
<b>Facility:</b>	18002181 (GAS USA HANINI 7 OIL INC)		
<b>Facility Link:</b>	https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#9708		
<b>Release Link:</b>	https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32527		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73214
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18002181 - N00001 GAS USA HANINI 7 OIL INC	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18002181 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	6501 Denison Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73214
<b>ZIP Out:</b>	44102-5434	<b>Y:</b>	41.45943
<b>Lat:</b>	41.45943		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	20555	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18002181	<b>Address:</b>	6501 DENISON AVE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.47633
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.75427
<b>Current Fac Name:</b>	GAS USA HANINI 7 OIL INC		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	15378	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	180069600.0	<b>LTF:</b>	1 SUS/CON from regulated UST
<b>Last Review Date:</b>	8/27/2003	<b>Rating:</b>	16
<b>Release Date:</b>	3/15/1990	<b>Facility Name:</b>	GAS USA HANINI 7 OIL INC
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	6501 DENISON AVE
<b>Last Update Date:</b>	12/16/2020	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	8/27/2003	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.47633
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.75427
<b>Rules:</b>	1999		

<a href="#">36</a>	2 of 2	SSE	0.42 / 2,236.22	736.69 / 37	GAS USA HANINI 7 OIL INC 6501 DENISON AVE	LUST
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**CLEVELAND OH 44102**

<b>Release No:</b>	18002181 - N00002	<b>Release No (Map):</b>	18002181-N00002
<b>Facility Name:</b>	GAS USA HANINI 7 OIL INC	<b>Fac Name (Map):</b>	GAS USA HANINI 7 OIL INC
<b>Facility Address:</b>	6501 DENISON AVE	<b>Fac Address (Map):</b>	6501 DENISON AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.45943
<b>Facility Latitude:</b>	41.47633	<b>Longitude (Map):</b>	-81.73214
<b>Facility Longitude:</b>	-81.75427	<b>Fac ID (BUSTR2):</b>	18002181
<b>Release No (OTTER):</b>	18002181-N00002	<b>IncidntID (BUSTR2):</b>	N00002
<b>Fac Name (OTTER):</b>	GAS USA HANINI 7 OIL INC	<b>Fac Name (BUSTR2):</b>	GAS USA HANINI 7 OIL INC
<b>FacAddress (OTTER):</b>	6501 DENISON AVE	<b>Address (BUSTR2):</b>	6501 DENISON AVE
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.47633
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.75427
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18002181-N00002
<b>Fac Name (BUSTR):</b>	GAS USA HANINI 7 OIL INC	<b>Fac Addr (BUSTR):</b>	6501 DENISON AVE
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.47633	<b>Longitude (BUSTR):</b>	-81.75427
<b>Facility (OTTER):</b>	18002181 (GAS USA HANINI 7 OIL INC)		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)		

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	11/8/2005
<b>LTF Status:</b>	6 Closure of regulated UST	<b>Review Date:</b>	11/04/2005
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	3
<b>Release Date:</b>	09/09/2005	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>		<b>Date Reported:</b>	9/9/2005
<b>Tank Status:</b>	Both	<b>Owner Busi Name:</b>	HANINI 7 OIL/ GAS USA
<b>Facility:</b>	18002181 (GAS USA HANINI 7 OIL INC)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#9708">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#9708</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32528">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32528</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73214
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18002181 - N00002 GAS USA HANINI 7 OIL INC	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18002181 - N00002	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	6501 Denison Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73214
<b>ZIP Out:</b>	44102-5434	<b>Y:</b>	41.45943
<b>Lat:</b>	41.45943		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	20556	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18002181	<b>Address:</b>	6501 DENISON AVE
<b>Incident ID:</b>	N00002	<b>City:</b>	CLEVELAND

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>LTF:</b>	6 Closure of regulated UST				<b>County:</b> CUY	
<b>Status:</b>	NFA: No Further Action				<b>ZIP:</b> 44102	
<b>Facility Status:</b>	Inactive				<b>Latitude DD Begin:</b> 41.47633	
<b>Data Date:</b>	2014-11-10 14:16:16.183				<b>Longitude DD Begin:</b> -81.75427	
<b>Current Fac Name:</b>	GAS USA HANINI 7 OIL INC					

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	15379	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>		<b>LTF:</b>	6 Closure of regulated UST
<b>Last Review Date:</b>	11/4/2005	<b>Rating:</b>	14
<b>Release Date:</b>	9/9/2005	<b>Facility Name:</b>	GAS USA HANINI 7 OIL INC
<b>Last Update:</b>		<b>Facility Address:</b>	6501 DENISON AVE
<b>Last Update Date:</b>	4/28/2012	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	11/8/2005	<b>County:</b>	Cuyahoga
<b>Substatus:</b>		<b>Facility ZIP:</b>	44102
<b>Priority:</b>	3	<b>Facility Latitude:</b>	41.47633
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.75427
<b>Rules:</b>	2005		

[37](#) 1 of 2 NE 0.42 / 2,236.61 676.92 / -23 FORMER FORMAN DRY CLEANING CLEVELAND OH 44102 LUST

<b>Release No:</b>	18009311 - N00001	<b>Release No (Map):</b>	18009311-N00001
<b>Facility Name:</b>	FORMER FORMAN DRY CLEANING	<b>Fac Name (Map):</b>	FORMER FORMAN DRY CLEANING
<b>Facility Address:</b>	6110 WALWORTH AVE	<b>Fac Address (Map):</b>	6110 WALWORTH AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	CUY
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.471676
<b>Facility Latitude:</b>	41.470951	<b>Longitude (Map):</b>	-81.726776
<b>Facility Longitude:</b>	-81.728348	<b>Fac ID (BUSTR2):</b>	18009311
<b>Release No (OTTER):</b>	18009311-N00001	<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	FORMER FORMAN DRY CLEANING	<b>Fac Name (BUSTR2):</b>	FORMER FORMAN DRY CLEANING
<b>FacAddress (OTTER):</b>	6110 WALWORTH AVE	<b>Address (BUSTR2):</b>	6110 WALWORTH AVE
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.47095
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.72835
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18009311-N00001
<b>Fac Name (BUSTR):</b>	FORMER FORMAN DRY CLEANING	<b>Fac Addr (BUSTR):</b>	6110 WALWORTH AVE
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.470951	<b>Longitude (BUSTR):</b>	-81.728348
<b>Facility (OTTER):</b>	18009311 (FORMER FORMAN DRY CLEANING)		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)		

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Active	<b>Date Last Change:</b>	10/1/2015
<b>LTF Status:</b>	6 Closure of regulated UST	<b>Review Date:</b>	08/16/2022
<b>FR Status:</b>	CLO: Closure	<b>Priority:</b>	2
<b>Release Date:</b>	03/30/1999	<b>Class:</b>	C
<b>Class Description:</b>	The RP is non-viable		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>		<b>Date Reported:</b>	3/30/1999
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	OHIO DEPT. OF TRANSPORTATION (ODOT)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Facility:** 18009311 (FORMER FORMAN DRY CLEANING)  
**Facility Link:** <https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#28562>  
**Release Link:** <https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34569>

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.726776
<b>FR Status:</b>	CLO: Closure	<b>Match:</b>	S80
<b>Label:</b>	18009311 - N00001 FORMER FORMAN DRY CLEANING	<b>LOC QUAL:</b>	AS0
<b>Release No:</b>	18009311 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	2
<b>Address Out:</b>	6110 Walworth Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.726776
<b>ZIP Out:</b>	44102	<b>Y:</b>	41.471676
<b>Lat:</b>	41.471676		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	11839	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18009311	<b>Address:</b>	6110 WALWORTH AVE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	6 Closure of regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NCR: No closure report received letter sent	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Active	<b>Latitude DD Begin:</b>	41.47095
<b>Data Date:</b>	2014-11-10 14:15:06.177	<b>Longitude DD Begin:</b>	-81.72835
<b>Current Fac Name:</b>	FORMER FORMAN DRY CLEANING		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	13560	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>		<b>LTF:</b>	6 Closure of regulated UST
<b>Last Review Date:</b>	8/16/2022	<b>Rating:</b>	14
<b>Release Date:</b>	3/30/1999	<b>Facility Name:</b>	FORMER FORMAN DRY CLEANING
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	6110 WALWORTH AVE
<b>Last Update Date:</b>	8/16/2022	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	CLO: Closure	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	10/1/2015	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Required	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.470951
<b>Class:</b>	C	<b>Facility Longitude:</b>	-81.728348
<b>Rules:</b>	1992		

<a href="#">37</a>	2 of 2	NE	0.42 / 2,236.61	676.92 / -23	FORMER FORMAN DRY CLEANING 6110 WALWORTH AVE CLEVELAND OH 44102	DELISTED LST
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**Delisted Regulated and Non-Regulated Leaking Underground Storage Tanks (LUST)**

<b>Incident No:</b>		<b>Class:</b>	C
<b>Release No:</b>	18009311 - N00001	<b>Class Desc:</b>	The RP is non-viable
<b>Status:</b>	CLO: Closure	<b>Rules:</b>	1992
<b>Sub Status:</b>	Required	<b>Coordinator:</b>	Charles Zepp
<b>Release Date:</b>	3/30/1999	<b>County:</b>	Cuyahoga
<b>LTF:</b>	6 Closure of regulated UST	<b>Facility Latitude:</b>	41.470951
<b>Last Update:</b>	Charles Zepp	<b>Facility Longitude:</b>	-81.728348
<b>Last Update Date:</b>	1/4/2019	<b>Original Source:</b>	NLUT
<b>Last Status Update:</b>	10/1/2015	<b>Record Date:</b>	14-JAN-2019
<b>Priority:</b>	2		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<a href="#">38</a>	1 of 4	N	0.43 / 2,244.43	699.10 / 0	NADIA OIL LLC 7310 LORAIN AVE CLEVELAND OH 44102	LUST

<b>Release No:</b>	18001610 - N00001	<b>Release No (Map):</b>	18001610-N00001
<b>Facility Name:</b>	NADIA OIL LLC	<b>Fac Name (Map):</b>	NADIA OIL LLC
<b>Facility Address:</b>	7310 LORAIN AVE	<b>Fac Address (Map):</b>	7310 LORAIN AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.47326
<b>Facility Latitude:</b>	41.47324	<b>Longitude (Map):</b>	-81.73539
<b>Facility Longitude:</b>	-81.73528	<b>Fac ID (BUSTR2):</b>	18001610
<b>Release No (OTTER):</b>	18001610-N00001	<b>IncidentID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	NADIA OIL LLC	<b>Fac Name (BUSTR2):</b>	NADIA OIL LLC
<b>FacAddress (OTTER):</b>	7310 LORAIN AVE	<b>Address (BUSTR2):</b>	7310 LORAIN AVE
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.47324
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.73528
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18001610-N00001
<b>Fac Name (BUSTR):</b>	NADIA OIL LLC	<b>Fac Addr (BUSTR):</b>	7310 LORAIN AVE
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.47324	<b>Longitude (BUSTR):</b>	-81.73528
<b>Facility (OTTER):</b>	18001610 (NADIA OIL LLC)		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGRI) (BUSTR2)		

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	1/23/1995
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	01/23/1995
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	10/16/1989	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	18983500.0	<b>Date Reported:</b>	10/16/1989
<b>Tank Status:</b>	Both	<b>Owner Busi Name:</b>	W 73RD LORAIN OIL CO
<b>Facility:</b>	18001610 (NADIA OIL LLC)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#10009">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#10009</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32482">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32482</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73539
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18001610 - N00001 NADIA OIL LLC	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18001610 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	7310 Lorain Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73539
<b>ZIP Out:</b>	44102-4244	<b>Y:</b>	41.47326
<b>Lat:</b>	41.47326		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	20168	<b>ODOT District:</b>	12
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Facility ID:</b>	18001610				<b>Address:</b> 7310 LORAIN AVE	
<b>Incident ID:</b>	N00001				<b>City:</b> CLEVELAND	
<b>LTF:</b>	1 SUS/CON from regulated UST				<b>County:</b> CUY	
<b>Status:</b>	NFA: No Further Action				<b>ZIP:</b> 44102	
<b>Facility Status:</b>	Inactive				<b>Latitude DD Begin:</b> 41.47324	
<b>Data Date:</b>	2014-11-10 14:16:16.183				<b>Longitude DD Begin:</b> -81.73528	
<b>Current Fac Name:</b>	NADIA OIL LLC					

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	24321	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	18983500.0	<b>LTF:</b>	1 SUS/CON from regulated UST
<b>Last Review Date:</b>	1/23/1995	<b>Rating:</b>	
<b>Release Date:</b>	10/16/1989	<b>Facility Name:</b>	NADIA OIL LLC
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	7310 LORAIN AVE
<b>Last Update Date:</b>	11/20/2020	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	1/23/1995	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.47324
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.73528
<b>Rules:</b>	1992		

[38](#)    2 of 4    **N**    0.43 / 2,244.43    699.10 / 0    **NADIA OIL LLC**  
**7310 LORAIN AVE**  
**CLEVELAND OH 44102**    **LUST**

<b>Release No:</b>	18001610 - N00002	<b>Release No (Map):</b>	18001610-N00002
<b>Facility Name:</b>	NADIA OIL LLC	<b>Fac Name (Map):</b>	NADIA OIL LLC
<b>Facility Address:</b>	7310 LORAIN AVE	<b>Fac Address (Map):</b>	7310 LORAIN AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	CUY
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.47326
<b>Facility Latitude:</b>	41.47324	<b>Longitude (Map):</b>	-81.73539
<b>Facility Longitude:</b>	-81.73528	<b>Fac ID (BUSTR2):</b>	18001610
<b>Release No (OTTER):</b>	18001610-N00002	<b>IncidentID (BUSTR2):</b>	N00002
<b>Fac Name (OTTER):</b>	NADIA OIL LLC	<b>Fac Name (BUSTR2):</b>	NADIA OIL LLC
<b>FacAddress (OTTER):</b>	7310 LORAIN AVE	<b>Address (BUSTR2):</b>	7310 LORAIN AVE
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.47324
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.73528
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18001610-N00002
<b>Fac Name (BUSTR):</b>	NADIA OIL LLC	<b>Fac Addr (BUSTR):</b>	7310 LORAIN AVE
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.47324	<b>Longitude (BUSTR):</b>	-81.73528
<b>Facility (OTTER):</b>	18001610 (NADIA OIL LLC)		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGRI) (BUSTR2)		

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	9/30/2003
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	09/30/2003
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	04/22/1997	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	18983501.0	<b>Date Reported:</b>	4/22/1997
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Tank Status:** Both **Owner Busi Name:** W 73RD LORAIN OIL CO  
**Facility:** 18001610 (NADIA OIL LLC)  
**Facility Link:** <https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#10009>  
**Release Link:** <https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32483>

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73539
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18001610 - N00002 NADIA OIL LLC	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18001610 - N00002	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	7310 Lorain Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73539
<b>ZIP Out:</b>	44102-4244	<b>Y:</b>	41.47326
<b>Lat:</b>	41.47326		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	20169	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18001610	<b>Address:</b>	7310 LORAIN AVE
<b>Incident ID:</b>	N00002	<b>City:</b>	CLEVELAND
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.47324
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.73528
<b>Current Fac Name:</b>	NADIA OIL LLC		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	24322	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	18983501.0	<b>LTF:</b>	1 SUS/CON from regulated UST
<b>Last Review Date:</b>	9/30/2003	<b>Rating:</b>	17
<b>Release Date:</b>	4/22/1997	<b>Facility Name:</b>	NADIA OIL LLC
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	7310 LORAIN AVE
<b>Last Update Date:</b>	11/20/2020	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	9/30/2003	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.47324
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.73528
<b>Rules:</b>	1999		

<a href="#">38</a>	3 of 4	N	0.43 / 2,244.43	699.10 / 0	NADIA OIL LLC 7310 LORAIN AVE CLEVELAND OH 44102	LUST
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<b>Release No:</b>	18001610 - N00003	<b>Release No (Map):</b>	18001610-N00003
<b>Facility Name:</b>	NADIA OIL LLC	<b>Fac Name (Map):</b>	NADIA OIL LLC
<b>Facility Address:</b>	7310 LORAIN AVE	<b>Fac Address (Map):</b>	7310 LORAIN AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.47326
<b>Facility Latitude:</b>	41.47324	<b>Longitude (Map):</b>	-81.73539
<b>Facility Longitude:</b>	-81.73528	<b>Fac ID (BUSTR2):</b>	18001610
<b>Release No (OTTER):</b>	18001610-N00003	<b>IncidentID (BUSTR2):</b>	N00003
<b>Fac Name (OTTER):</b>	NADIA OIL LLC	<b>Fac Name (BUSTR2):</b>	NADIA OIL LLC
<b>FacAddress (OTTER):</b>	7310 LORAIN AVE	<b>Address (BUSTR2):</b>	7310 LORAIN AVE
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.47324
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.73528

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>Longitude (OTTER):</b>					<b>Release No (BUSTR):</b>	18001610-N00003
<b>Fac Name (BUSTR):</b>	NADIA OIL LLC				<b>Fac Addr (BUSTR):</b>	7310 LORAIN AVE
<b>Fac City (BUSTR):</b>	CLEVELAND				<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102				<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.47324				<b>Longitude (BUSTR):</b>	-81.73528
<b>Facility (OTTER):</b>	18001610 (NADIA OIL LLC)					
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)					

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	8/22/2011
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	08/17/2011
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	06/20/2004	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>		<b>Date Reported:</b>	6/20/2004
<b>Tank Status:</b>	Both	<b>Owner Busi Name:</b>	W 73RD LORAIN OIL CO
<b>Facility:</b>	18001610 (NADIA OIL LLC)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#10009">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#10009</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32484">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32484</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73539
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18001610 - N00003 NADIA OIL LLC	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18001610 - N00003	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	7310 Lorain Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73539
<b>ZIP Out:</b>	44102-4244	<b>Y:</b>	41.47326
<b>Lat:</b>	41.47326		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	20170	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18001610	<b>Address:</b>	7310 LORAIN AVE
<b>Incident ID:</b>	N00003	<b>City:</b>	CLEVELAND
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.47324
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.73528
<b>Current Fac Name:</b>	NADIA OIL LLC		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	24323	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>		<b>LTF:</b>	1 SUS/CON from regulated UST
<b>Last Review Date:</b>	8/17/2011	<b>Rating:</b>	9
<b>Release Date:</b>	6/20/2004	<b>Facility Name:</b>	NADIA OIL LLC
<b>Last Update:</b>		<b>Facility Address:</b>	7310 LORAIN AVE
<b>Last Update Date:</b>	4/28/2012	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	8/22/2011	<b>County:</b>	Cuyahoga
<b>Substatus:</b>		<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.47324
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.73528

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Rules: 1999

<a href="#">38</a>	4 of 4	N	0.43 / 2,244.43	699.10 / 0	NADIA OIL LLC 7310 LORAIN AVE CLEVELAND OH 44102	LUST
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<b>Release No:</b>	18001610 - N00004	<b>Release No (Map):</b>	18001610-N00004
<b>Facility Name:</b>	NADIA OIL LLC	<b>Fac Name (Map):</b>	NADIA OIL LLC
<b>Facility Address:</b>	7310 LORAIN AVE	<b>Fac Address (Map):</b>	7310 LORAIN AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.47326
<b>Facility Latitude:</b>	41.47324	<b>Longitude (Map):</b>	-81.73539
<b>Facility Longitude:</b>	-81.73528	<b>Fac ID (BUSTR2):</b>	18001610
<b>Release No (OTTER):</b>	18001610-N00004	<b>IncidntID (BUSTR2):</b>	N00004
<b>Fac Name (OTTER):</b>	NADIA OIL LLC	<b>Fac Name (BUSTR2):</b>	NADIA OIL LLC
<b>FacAddress (OTTER):</b>	7310 LORAIN AVE	<b>Address (BUSTR2):</b>	7310 LORAIN AVE
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.47324
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.73528
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18001610-N00004
<b>Fac Name (BUSTR):</b>	NADIA OIL LLC	<b>Fac Addr (BUSTR):</b>	7310 LORAIN AVE
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.47324	<b>Longitude (BUSTR):</b>	-81.73528
<b>Facility (OTTER):</b>	18001610 (NADIA OIL LLC)		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)		

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	4/5/1999
<b>LTF Status:</b>	6 Closure of regulated UST	<b>Review Date:</b>	04/05/1999
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	03/08/1999	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	18983502.0	<b>Date Reported:</b>	3/8/1999
<b>Tank Status:</b>	Both	<b>Owner Busi Name:</b>	W 73RD LORAIN OIL CO
<b>Facility:</b>	18001610 (NADIA OIL LLC)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#10009">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#10009</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32485">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32485</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73539
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18001610 - N00004 NADIA OIL LLC	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18001610 - N00004	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	7310 Lorain Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73539
<b>ZIP Out:</b>	44102-4244	<b>Y:</b>	41.47326
<b>Lat:</b>	41.47326		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>Object ID:</b>	20171	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18001610	<b>Address:</b>	7310 LORAIN AVE
<b>Incident ID:</b>	N00004	<b>City:</b>	CLEVELAND
<b>LTF:</b>	6 Closure of regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.47324
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.73528
<b>Current Fac Name:</b>	NADIA OIL LLC		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	24324	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	18983502.0	<b>LTF:</b>	6 Closure of regulated UST
<b>Last Review Date:</b>	4/5/1999	<b>Rating:</b>	11
<b>Release Date:</b>	3/8/1999	<b>Facility Name:</b>	NADIA OIL LLC
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	7310 LORAIN AVE
<b>Last Update Date:</b>	11/20/2020	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	4/5/1999	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.47324
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.73528
<b>Rules:</b>	1992		

<a href="#">39</a>	1 of 1	SSW	0.43 / 2,246.51	728.19 / 29	AMES ZAYRE 2337 3565 RIDGE RD CLEVELAND OH 44102	LUST
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<b>Release No:</b>	18010564 - N00001	<b>Release No (Map):</b>	18010564-N00001
<b>Facility Name:</b>	AMES ZAYRE 2337	<b>Fac Name (Map):</b>	AMES ZAYRE 2337
<b>Facility Address:</b>	3565 RIDGE RD	<b>Fac Address (Map):</b>	3565 RIDGE RD
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	CUY
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.45953
<b>Facility Latitude:</b>	41.459717	<b>Longitude (Map):</b>	-81.73744
<b>Facility Longitude:</b>	-81.738125	<b>Fac ID (BUSTR2):</b>	18010564
<b>Release No (OTTER):</b>	18010564-N00001	<b>IncidentID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	AMES ZAYRE 2337	<b>Fac Name (BUSTR2):</b>	AMES ZAYRE 2337
<b>FacAddress (OTTER):</b>	3565 RIDGE RD	<b>Address (BUSTR2):</b>	3565 RIDGE RD
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.45972
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.73812
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18010564-N00001
<b>Fac Name (BUSTR):</b>	AMES ZAYRE 2337	<b>Fac Addr (BUSTR):</b>	3565 RIDGE RD
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.459717	<b>Longitude (BUSTR):</b>	-81.738125
<b>Facility (OTTER):</b>	18010564 (AMES ZAYRE 2337)		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)		

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	8/17/1993
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	08/17/1993
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	12/05/1989	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Old Incident ID:** 189103400.0 **Date Reported:** 12/5/1989  
**Tank Status:** No Tanks Available **Owner Busi Name:** AMES ZAYRE 2337  
**Facility:** 18010564 (AMES ZAYRE 2337)  
**Facility Link:** <https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#13874>  
**Release Link:** <https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33845>

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73744
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18010564 - N00001 AMES ZAYRE 2337	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18010564 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	3565 Ridge Rd	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73744
<b>ZIP Out:</b>	44102-5443	<b>Y:</b>	41.45953
<b>Lat:</b>	41.45953		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	21990	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18010564	<b>Address:</b>	3565 RIDGE RD
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.45972
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.73812
<b>Current Fac Name:</b>	AMES ZAYRE 2337		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	1909	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	189103400.0	<b>LTF:</b>	1 SUS/CON from regulated UST
<b>Last Review Date:</b>	8/17/1993	<b>Rating:</b>	0
<b>Release Date:</b>	12/5/1989	<b>Facility Name:</b>	AMES ZAYRE 2337
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	3565 RIDGE RD
<b>Last Update Date:</b>	5/27/2021	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	8/17/1993	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.459717
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.738125
<b>Rules:</b>	1992		

<a href="#">40</a>	1 of 1	NE	0.43 / 2,254.62	676.94 / -23	ODOT PROPERTY 6100 WALWORTH AVE CLEVELAND OH 44102	LUST
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<b>Release No:</b>	18000819 - N00001	<b>Release No (Map):</b>	18000819-N00001
<b>Facility Name:</b>	ODOT PROPERTY	<b>Fac Name (Map):</b>	FORMER COMMERCIAL SITE
<b>Facility Address:</b>	6100 WALWORTH AVE	<b>Fac Address (Map):</b>	6100 WALWORTH AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.471677
<b>Facility Latitude:</b>	41.470974	<b>Longitude (Map):</b>	-81.726775
<b>Facility Longitude:</b>	-81.728313	<b>Fac ID (BUSTR2):</b>	18000819
<b>Release No (OTTER):</b>	18000819-N00001	<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	ODOT PROPERTY	<b>Fac Name (BUSTR2):</b>	FORMER COMMERCIAL SITE
<b>FacAddress (OTTER):</b>	6100 WALWORTH AVE	<b>Address (BUSTR2):</b>	6100 WALWORTH AVE
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>County (OTTER):</b>	Cuyahoga				<b>Latitude (BUSTR2):</b> 41.47097	
<b>Latitude (OTTER):</b>					<b>Longitude (BUSTR2):</b> -81.72831	
<b>Longitude (OTTER):</b>					<b>Release No (BUSTR):</b> 18000819-N00001	
<b>Fac Name (BUSTR):</b>	ODOT PROPERTY				<b>Fac Addr (BUSTR):</b> 6100 WALWORTH AVE	
<b>Fac City (BUSTR):</b>	CLEVELAND				<b>Fac State (BUSTR):</b> OH	
<b>Fac ZIP (BUSTR):</b>	44102				<b>Fac County (BUSTR):</b> Cuyahoga	
<b>Latitude (BUSTR):</b>	41.470974				<b>Longitude (BUSTR):</b> -81.728313	
<b>Facility (OTTER):</b>	18000819 (ODOT PROPERTY)					
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)					

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	3/31/2000
<b>LTF Status:</b>	6 Closure of regulated UST	<b>Review Date:</b>	03/31/2000
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	11/15/1999	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	189085300.0	<b>Date Reported:</b>	11/15/1999
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	OHIO DEPT. OF TRANSPORTATION (ODOT)
<b>Facility:</b>	18000819 (ODOT PROPERTY)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#28189">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#28189</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32118">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32118</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.726775
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18000819 - N00001 FORMER COMMERCIAL SITE	<b>LOC QUAL:</b>	AS0
<b>Release No:</b>	18000819 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	2
<b>Address Out:</b>	6100 Walworth Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.726775
<b>ZIP Out:</b>	44102	<b>Y:</b>	41.471677
<b>Lat:</b>	41.471677		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	18150	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18000819	<b>Address:</b>	6100 WALWORTH AVE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	6 Closure of regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.47097
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.72831
<b>Current Fac Name:</b>	FORMER COMMERCIAL SITE		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	25858	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	189085300.0	<b>LTF:</b>	6 Closure of regulated UST
<b>Last Review Date:</b>	3/31/2000	<b>Rating:</b>	0
<b>Release Date:</b>	11/15/1999	<b>Facility Name:</b>	ODOT PROPERTY
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	6100 WALWORTH AVE
<b>Last Update Date:</b>	10/8/2020	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	3/31/2000	<b>County:</b>	Cuyahoga

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Substatus:</b>	Approved				<b>Facility ZIP:</b> 44102	
<b>Priority:</b>	2				<b>Facility Latitude:</b> 41.470974	
<b>Class:</b>	D				<b>Facility Longitude:</b> -81.728313	
<b>Rules:</b>	1992					

<a href="#">41</a>	1 of 2	N	0.43 / 2,266.36	698.02 / -1	N & S AUTO SALES, INC 7200 LORAIN AVE CLEVELAND OH 44102	DELISTED LST
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**Delisted Regulated and Non-Regulated Leaking Underground Storage Tanks (LUST)**

<b>Incident No:</b>		<b>Class:</b>	A
<b>Release No:</b>	18011064 - N00001	<b>Class Desc:</b>	A Responsible Party (RP) for the release has not yet been determined
<b>Status:</b>	RPT: a possible incident is reported	<b>Rules:</b>	1999
<b>Sub Status:</b>	Approved	<b>Coordinator:</b>	Charles Zepp
<b>Release Date:</b>	2/16/2005	<b>County:</b>	Cuyahoga
<b>LTF:</b>	5 Petro incident, not from spill/overflow/release	<b>Facility Latitude:</b>	41.47335
<b>Last Update:</b>	Charles Zepp	<b>Facility Longitude:</b>	-81.734516
<b>Last Update Date:</b>	4/18/2017	<b>Original Source:</b>	NLUT
<b>Last Status Update:</b>	9/2/2014	<b>Record Date:</b>	09-JUL-2019
<b>Priority:</b>	2		

<a href="#">41</a>	2 of 2	N	0.43 / 2,266.36	698.02 / -1	N & S AUTO SALES, INC 7200 LORAIN AVE CLEVELAND OH 44102	LUST
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<b>Release No:</b>	18011064 - N00001	<b>Release No (Map):</b>	18011064-N00001
<b>Facility Name:</b>	N & S AUTO SALES, INC	<b>Fac Name (Map):</b>	N & S AUTO SALES, INC
<b>Facility Address:</b>	7200 LORAIN AVE	<b>Fac Address (Map):</b>	7200 LORAIN AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.47356
<b>Facility Latitude:</b>	41.47335	<b>Longitude (Map):</b>	-81.73448
<b>Facility Longitude:</b>	-81.734516	<b>Fac ID (BUSTR2):</b>	18011064
<b>Release No (OTTER):</b>		<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>		<b>Fac Name (BUSTR2):</b>	N & S AUTO SALES, INC
<b>FacAddress (OTTER):</b>		<b>Address (BUSTR2):</b>	7200 LORAIN AVE
<b>Fac City (OTTER):</b>		<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>		<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>		<b>Latitude (BUSTR2):</b>	41.47335
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.73452
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	
<b>Fac Name (BUSTR):</b>		<b>Fac Addr (BUSTR):</b>	
<b>Fac City (BUSTR):</b>		<b>Fac State (BUSTR):</b>	
<b>Fac ZIP (BUSTR):</b>		<b>Fac County (BUSTR):</b>	
<b>Latitude (BUSTR):</b>		<b>Longitude (BUSTR):</b>	
<b>Facility (OTTER):</b>			
<b>Data Source:</b>	Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGRI) (BUSTR2)		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73448
<b>FR Status:</b>	RPT: a possible incident is reported	<b>Match:</b>	S80
<b>Label:</b>	18011064 - N00001 N & S AUTO SALES, INC	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18011064 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	7200 Lorain Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73448
<b>ZIP Out:</b>	44102-4341	<b>Y:</b>	41.47356

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Lat: 41.47356

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	11971	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18011064	<b>Address:</b>	7200 LORAIN AVE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	6 Closure of regulated UST	<b>County:</b>	CUY
<b>Status:</b>	RPT: a possible incident is reported	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Active	<b>Latitude DD Begin:</b>	41.47335
<b>Data Date:</b>	2014-11-10 14:15:06.177	<b>Longitude DD Begin:</b>	-81.73452
<b>Current Fac Name:</b>	N & S AUTO SALES, INC		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	24300	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>		<b>LTF:</b>	5 Petro incident, not from spill/overflow/release
<b>Last Review Date:</b>	4/18/2017	<b>Rating:</b>	9
<b>Release Date:</b>	2/16/2005	<b>Facility Name:</b>	N & S AUTO SALES, INC
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	7200 LORAIN AVE
<b>Last Update Date:</b>	4/18/2017	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	RPT: a possible incident is reported	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	9/2/2014	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.47335
<b>Class:</b>	A	<b>Facility Longitude:</b>	-81.734516
<b>Rules:</b>	1999		

<a href="#">42</a>	1 of 1	N	0.44 / 2,299.15	697.61 / -2	TEND R LEAN STEAK CO 7106 LORAIN AVE CLEVELAND OH 44113	LUST
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<b>Release No:</b>	18002568 - N00001	<b>Release No (Map):</b>	18002568-N00001
<b>Facility Name:</b>	TEND R LEAN STEAK CO	<b>Fac Name (Map):</b>	TEND R LEAN STEAK CO
<b>Facility Address:</b>	7106 LORAIN AVE	<b>Fac Address (Map):</b>	7106 LORAIN AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44113
<b>Facility ZIP:</b>	44113	<b>County (Map):</b>	CUY
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.47351
<b>Facility Latitude:</b>	41.473421	<b>Longitude (Map):</b>	-81.73415
<b>Facility Longitude:</b>	-81.734256	<b>Fac ID (BUSTR2):</b>	18002568
<b>Release No (OTTER):</b>	18002568-N00001	<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	TEND R LEAN STEAK CO	<b>Fac Name (BUSTR2):</b>	TEND R LEAN STEAK CO
<b>FacAddress (OTTER):</b>	7106 LORAIN AVE	<b>Address (BUSTR2):</b>	7106 LORAIN AVE
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44113
<b>Fac ZIP (OTTER):</b>	44113	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.47342
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.73426
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18002568-N00001
<b>Fac Name (BUSTR):</b>	TEND R LEAN STEAK CO	<b>Fac Addr (BUSTR):</b>	7106 LORAIN AVE
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44113	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.473421	<b>Longitude (BUSTR):</b>	-81.734256
<b>Facility (OTTER):</b>	18002568 (TEND R LEAN STEAK CO)		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer); All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGRI) (BUSTR2)		

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	5/21/1997
<b>LTF Status:</b>	6 Closure of regulated UST	<b>Review Date:</b>	05/21/1997
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	04/17/1997	<b>Class:</b>	D

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Class Description:** A viable RP has been identified

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

**Old Incident ID:** 186052400.0  
**Tank Status:** No Tanks Available  
**Facility:** 18002568 (TEND R LEAN STEAK CO)  
**Facility Link:** <https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#23518>  
**Release Link:** <https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33152>

**Date Reported:** 4/17/1997  
**Owner Busi Name:** TEND R LEAN STEAK CO

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

**Object ID:**  
**FR Status:** NFA: No Further Action  
**Label:** 18002568 - N00001 TEND R LEAN STEAK CO  
**Release No:** 18002568 - N00001  
**Date:** 9/21/2020  
**Address Out:** 7106 Lorain Ave  
**City Out:** Cleveland  
**State Out:** OH  
**ZIP Out:** 44102-4339  
**Lat:** 41.47351

**Long:** -81.73415  
**Match:** S90  
**LOC QUAL:** MAF7  
**Facility Z:** 44113  
**LOC CONF:** 1  
**Date Process:** 20200923  
**FID:**  
**X:** -81.73415  
**Y:** 41.47351

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

**Object ID:** 20834  
**Facility ID:** 18002568  
**Incident ID:** N00001  
**LTF:** 6 Closure of regulated UST  
**Status:** NFA: No Further Action  
**Facility Status:** Inactive  
**Data Date:** 2014-11-10 14:16:16.183  
**Current Fac Name:** TEND R LEAN STEAK CO

**ODOT District:** 12  
**Address:** 7106 LORAIN AVE  
**City:** CLEVELAND  
**County:** CUY  
**ZIP:** 44113  
**Latitude DD Begin:** 41.47342  
**Longitude DD Begin:** -81.73426

**All Active-Inactive BUSTR Sites**

**S No:** 37019  
**Incident No:** 186052400.0  
**Last Review Date:** 5/21/1997  
**Release Date:** 4/17/1997  
**Last Update:** Charles Zepp  
**Last Update Date:** 1/8/2021  
**Status:** NFA: No Further Action  
**Last Status Update:** 5/21/1997  
**Substatus:** Approved  
**Priority:** 2  
**Class:** D  
**Rules:** 1992

**Coordinator:** Charles Zepp  
**LTF:** 6 Closure of regulated UST  
**Rating:**  
**Facility Name:** TEND R LEAN STEAK CO  
**Facility Address:** 7106 LORAIN AVE  
**Facility City:** CLEVELAND  
**Facility State:** Ohio  
**County:** Cuyahoga  
**Facility ZIP:** 44113  
**Facility Latitude:** 41.473421  
**Facility Longitude:** -81.734256

<a href="#">43</a>	1 of 4	SSW	0.44 / 2,300.93	726.43 / 27	Prime 3580 Ridge LLC 3580 RIDGE RD BROOKLYN OH 44102	LUST
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**Release No:** 18001293 - N00001  
**Facility Name:** Prime 3580 Ridge LLC  
**Facility Address:** 3580 RIDGE RD  
**Facility City:** BROOKLYN  
**Facility State:** Ohio  
**Facility ZIP:** 44102  
**County:** Cuyahoga  
**Facility Latitude:** 41.459457  
**Facility Longitude:** -81.738458

**Release No (Map):** 18001293-N00001  
**Fac Name (Map):** Prime 3580 Ridge LLC  
**Fac Address (Map):** 3580 RIDGE RD  
**Fac City (Map):** BROOKLYN  
**Fac ZIP (Map):** 44102  
**County (Map):**  
**Latitude (Map):** 41.4595  
**Longitude (Map):** -81.73869  
**Fac ID (BUSTR2):** 18001293

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>Release No (OTTER):</b>	18001293-N00001				<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	Prime 3580 Ridge LLC				<b>Fac Name (BUSTR2):</b>	Prime 3580 Ridge LLC
<b>FacAddress (OTTER):</b>	3580 RIDGE RD				<b>Address (BUSTR2):</b>	3580 RIDGE RD
<b>Fac City (OTTER):</b>	BROOKLYN				<b>City (BUSTR2):</b>	BROOKLYN
<b>Fac State (OTTER):</b>					<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102				<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga				<b>Latitude (BUSTR2):</b>	41.45946
<b>Latitude (OTTER):</b>					<b>Longitude (BUSTR2):</b>	-81.73846
<b>Longitude (OTTER):</b>					<b>Release No (BUSTR):</b>	18001293-N00001
<b>Fac Name (BUSTR):</b>	Prime 3580 Ridge LLC				<b>Fac Addr (BUSTR):</b>	3580 RIDGE RD
<b>Fac City (BUSTR):</b>	BROOKLYN				<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102				<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.459457				<b>Longitude (BUSTR):</b>	-81.738458
<b>Facility (OTTER):</b>	18001293 (Prime 3580 Ridge LLC)					
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGRI) (BUSTR2)					

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	12/15/1995
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	12/15/2005
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	03/28/1990	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	180080700.0	<b>Date Reported:</b>	3/28/1990
<b>Tank Status:</b>	Both	<b>Owner Busi Name:</b>	PRIME PROPERTIES LIMITED PARTNER
<b>Facility:</b>	18001293 (Prime 3580 Ridge LLC)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#9875">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#9875</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32289">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32289</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73869
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	SA0
<b>Label:</b>	18001293 - N00001 Prime 3580 Ridge LLC	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18001293 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	3580 Ridge Rd	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73869
<b>ZIP Out:</b>	44102-5444	<b>Y:</b>	41.4595
<b>Lat:</b>	41.4595		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	19998	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18001293	<b>Address:</b>	3580 RIDGE RD
<b>Incident ID:</b>	N00001	<b>City:</b>	BROOKLYN
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.45946
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.73846
<b>Current Fac Name:</b>	Prime 3580 Ridge LLC		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	29131	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	180080700.0	<b>LTF:</b>	1 SUS/CON from regulated UST
<b>Last Review Date:</b>	12/15/2005	<b>Rating:</b>	17

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Release Date:</b>	3/28/1990				<b>Facility Name:</b> Prime 3580 Ridge LLC	
<b>Last Update:</b>	Charles Zepp				<b>Facility Address:</b> 3580 RIDGE RD	
<b>Last Update Date:</b>	11/13/2020				<b>Facility City:</b> BROOKLYN	
<b>Status:</b>	NFA: No Further Action				<b>Facility State:</b> Ohio	
<b>Last Status Update:</b>	12/15/1995				<b>County:</b> Cuyahoga	
<b>Substatus:</b>	Approved				<b>Facility ZIP:</b> 44102	
<b>Priority:</b>	2				<b>Facility Latitude:</b> 41.459457	
<b>Class:</b>	D				<b>Facility Longitude:</b> -81.738458	
<b>Rules:</b>	1999					

[43](#)    2 of 4    **SSW**    0.44 / 2,300.93    726.43 / 27    **Prime 3580 Ridge LLC  
3580 RIDGE RD  
BROOKLYN OH 44102**    **DELISTED  
LST**

**Delisted Regulated and Non-Regulated Leaking Underground Storage Tanks (LUST)**

<b>Incident No:</b>		<b>Class:</b>	E
<b>Release No:</b>	18001293 - N00002	<b>Class Desc:</b>	Referred to enforcement
<b>Status:</b>	SUS: a suspected release or source is identified	<b>Rules:</b>	2012
<b>Sub Status:</b>	Required	<b>Coordinator:</b>	Charles Zepp
<b>Release Date:</b>	10/22/2015	<b>County:</b>	Cuyahoga
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>Facility Latitude:</b>	41.459457
<b>Last Update:</b>	Charles Zepp	<b>Facility Longitude:</b>	-81.738458
<b>Last Update Date:</b>	11/29/2018	<b>Original Source:</b>	NLUT
<b>Last Status Update:</b>	10/26/2015	<b>Record Date:</b>	14-JAN-2019
<b>Priority:</b>	2		

[43](#)    3 of 4    **SSW**    0.44 / 2,300.93    726.43 / 27    **Prime 3580 Ridge LLC  
3580 RIDGE RD  
BROOKLYN OH 44102**    **LUST**

<b>Release No:</b>	18001293 - N00002	<b>Release No (Map):</b>	18001293-N00002
<b>Facility Name:</b>	Prime 3580 Ridge LLC	<b>Fac Name (Map):</b>	Prime 3580 Ridge LLC
<b>Facility Address:</b>	3580 RIDGE RD	<b>Fac Address (Map):</b>	3580 RIDGE RD
<b>Facility City:</b>	BROOKLYN	<b>Fac City (Map):</b>	BROOKLYN
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	Cuyahoga
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.4595
<b>Facility Latitude:</b>	41.459457	<b>Longitude (Map):</b>	-81.73869
<b>Facility Longitude:</b>	-81.738458	<b>Fac ID (BUSTR2):</b>	
<b>Release No (OTTER):</b>	18001293-N00002	<b>IncidntID (BUSTR2):</b>	
<b>Fac Name (OTTER):</b>	Prime 3580 Ridge LLC	<b>Fac Name (BUSTR2):</b>	
<b>FacAddress (OTTER):</b>	3580 RIDGE RD	<b>Address (BUSTR2):</b>	
<b>Fac City (OTTER):</b>	BROOKLYN	<b>City (BUSTR2):</b>	
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18001293-N00002
<b>Fac Name (BUSTR):</b>	Prime 3580 Ridge LLC	<b>Fac Addr (BUSTR):</b>	3580 RIDGE RD
<b>Fac City (BUSTR):</b>	BROOKLYN	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.459457	<b>Longitude (BUSTR):</b>	-81.738458
<b>Facility (OTTER):</b>	18001293 (Prime 3580 Ridge LLC)		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer); All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR)		

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Active	<b>Date Last Change:</b>	12/7/2021
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	09/08/2022
<b>FR Status:</b>	T1D: Tier 1 Delineation	<b>Priority:</b>	2
<b>Release Date:</b>	10/22/2015	<b>Class:</b>	E

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Class Description:** Referred to enforcement

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

**Old Incident ID:**  
**Tank Status:** Both  
**Facility:** 18001293 (Prime 3580 Ridge LLC)  
**Facility Link:** <https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#9875>  
**Release Link:** <https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=38251>

**Date Reported:** 10/22/2015  
**Owner Busi Name:** PRIME PROPERTIES LIMITED PARTNER

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

**Object ID:**  
**FR Status:** SUS: a suspected release or source is identified  
**Label:** 18001293 - N00002 Prime 3580 Ridge LLC  
**Release No:** 18001293 - N00002  
**Date:** 9/21/2020  
**Address Out:** 3580 Ridge Rd  
**City Out:** Cleveland  
**State Out:** OH  
**ZIP Out:** 44102-5444  
**Lat:** 41.4595

**Long:** -81.73869  
**Match:** SAO  
**LOC QUAL:** MAF7  
**Facility Z:** 44102  
**LOC CONF:** 1  
**Date Process:** 20200923  
**FID:**  
**X:** -81.73869  
**Y:** 41.4595

**All Active-Inactive BUSTR Sites**

**S No:** 29132  
**Incident No:**  
**Last Review Date:** 9/8/2022  
**Release Date:** 10/22/2015  
**Last Update:** Charles Zepp  
**Last Update Date:** 9/8/2022  
**Status:** T1D: Tier 1 Delineation  
**Last Status Update:** 12/7/2021  
**Substatus:** Required  
**Priority:** 2  
**Class:** E  
**Rules:** 2012

**Coordinator:** Charles Zepp  
**LTF:** 1 SUS/CON from regulated UST  
**Rating:** 11  
**Facility Name:** Prime 3580 Ridge LLC  
**Facility Address:** 3580 RIDGE RD  
**Facility City:** BROOKLYN  
**Facility State:** Ohio  
**County:** Cuyahoga  
**Facility ZIP:** 44102  
**Facility Latitude:** 41.459457  
**Facility Longitude:** -81.738458

<a href="#">43</a>	4 of 4	SSW	0.44 / 2,300.93	726.43 / 27	Prime 3580 Ridge LLC 3580 RIDGE RD BROOKLYN OH 44102	LUST
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**Release No:** 18001293 - N00003  
**Facility Name:** Prime 3580 Ridge LLC  
**Facility Address:** 3580 RIDGE RD  
**Facility City:** BROOKLYN  
**Facility State:** Ohio  
**Facility ZIP:** 44102  
**County:** Cuyahoga  
**Facility Latitude:** 41.459457  
**Facility Longitude:** -81.738458

**Release No (Map):** 18001293-N00003  
**Fac Name (Map):** Prime 3580 Ridge LLC  
**Fac Address (Map):** 3580 RIDGE RD  
**Fac City (Map):** BROOKLYN  
**Fac ZIP (Map):** 44102  
**County (Map):**  
**Latitude (Map):** 41.4595  
**Longitude (Map):** -81.73869

**Release No (OTTER):** 18001293-N00003  
**Fac Name (OTTER):** Prime 3580 Ridge LLC  
**FacAddress (OTTER):** 3580 RIDGE RD  
**Fac City (OTTER):** BROOKLYN  
**Fac State (OTTER):**  
**Fac ZIP (OTTER):** 44102  
**County (OTTER):** Cuyahoga

**Fac ID (BUSTR2):**  
**IncidntID (BUSTR2):**  
**Fac Name (BUSTR2):**  
**Address (BUSTR2):**  
**City (BUSTR2):**  
**ZIP (BUSTR2):**  
**County (BUSTR2):**  
**Latitude (BUSTR2):**  
**Longitude (BUSTR2):**  
**Release No (BUSTR):** 18001293-N00003  
**Fac Addr (BUSTR):** 3580 RIDGE RD  
**Fac State (BUSTR):** OH  
**Fac County (BUSTR):** Cuyahoga  
**Longitude (BUSTR):** -81.738458

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Facility (OTTER):** 18001293 (Prime 3580 Ridge LLC)  
**Data Source:** Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR)

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Active	<b>Date Last Change:</b>	12/7/2021
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	09/08/2022
<b>FR Status:</b>	T1D: Tier 1 Delineation	<b>Priority:</b>	2
<b>Release Date:</b>	08/15/2018	<b>Class:</b>	E
<b>Class Description:</b>	Referred to enforcement		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>		<b>Date Reported:</b>	8/15/2018
<b>Tank Status:</b>	Both	<b>Owner Busi Name:</b>	PRIME PROPERTIES LIMITED PARTNER
<b>Facility:</b>	18001293 (Prime 3580 Ridge LLC)		
<b>Facility Link:</b>	https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#9875		
<b>Release Link:</b>	https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=40160		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73869
<b>FR Status:</b>	CLO: Closure	<b>Match:</b>	SAO
<b>Label:</b>	18001293 - N00003 Prime 3580 Ridge LLC	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18001293 - N00003	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	3580 Ridge Rd	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73869
<b>ZIP Out:</b>	44102-5444	<b>Y:</b>	41.4595
<b>Lat:</b>	41.4595		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	29133	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>		<b>LTF:</b>	1 SUS/CON from regulated UST
<b>Last Review Date:</b>	9/8/2022	<b>Rating:</b>	14
<b>Release Date:</b>	8/15/2018	<b>Facility Name:</b>	Prime 3580 Ridge LLC
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	3580 RIDGE RD
<b>Last Update Date:</b>	9/8/2022	<b>Facility City:</b>	BROOKLYN
<b>Status:</b>	T1D: Tier 1 Delineation	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	12/7/2021	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Required	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.459457
<b>Class:</b>	E	<b>Facility Longitude:</b>	-81.738458
<b>Rules:</b>	2017		

<a href="#">44</a>	1 of 1	SSE	0.44 / 2,326.79	736.62 / 37	MARS CARS 6409 DENNISON AVE CLEVELAND OH 44105	LUST
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<b>Release No:</b>	18000848 - N00001	<b>Release No (Map):</b>	18000848-N00001
<b>Facility Name:</b>	MARS CARS	<b>Fac Name (Map):</b>	MARS CARS
<b>Facility Address:</b>	6409 DENNISON AVE	<b>Fac Address (Map):</b>	6409 DENNISON AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44105
<b>Facility ZIP:</b>	44105	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.45918
<b>Facility Latitude:</b>	41.459298	<b>Longitude (Map):</b>	-81.73167
<b>Facility Longitude:</b>	-81.731424	<b>Fac ID (BUSTR2):</b>	18000848
<b>Release No (OTTER):</b>	18000848-N00001	<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	MARS CARS	<b>Fac Name (BUSTR2):</b>	MARS CARS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>FacAddress (OTTER):</b>	6409 DENNISON AVE				<b>Address (BUSTR2):</b>	6409 DENNISON AVE
<b>Fac City (OTTER):</b>	CLEVELAND				<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>					<b>ZIP (BUSTR2):</b>	44105
<b>Fac ZIP (OTTER):</b>	44105				<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga				<b>Latitude (BUSTR2):</b>	41.4593
<b>Latitude (OTTER):</b>					<b>Longitude (BUSTR2):</b>	-81.73142
<b>Longitude (OTTER):</b>					<b>Release No (BUSTR):</b>	18000848-N00001
<b>Fac Name (BUSTR):</b>	MARS CARS				<b>Fac Addr (BUSTR):</b>	6409 DENNISON AVE
<b>Fac City (BUSTR):</b>	CLEVELAND				<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44105				<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.459298				<b>Longitude (BUSTR):</b>	-81.731424
<b>Facility (OTTER):</b>		18000848 (MARS CARS)				
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)					

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	6/14/2000
<b>LTF Status:</b>	6 Closure of regulated UST	<b>Review Date:</b>	06/14/2000
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	05/10/2000	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	180001100.0	<b>Date Reported:</b>	5/10/2000
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	MIKE GIONFEIDDO
<b>Facility:</b>	18000848 (MARS CARS)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#7904">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#7904</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32135">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=32135</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.73167
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S98
<b>Label:</b>	18000848 - N00001 MARS CARS	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18000848 - N00001	<b>Facility Z:</b>	44105
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	6409 Denison Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.73167
<b>ZIP Out:</b>	44102-5432	<b>Y:</b>	41.45918
<b>Lat:</b>	41.45918		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	18166	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18000848	<b>Address:</b>	6409 DENNISON AVE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	6 Closure of regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44105
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.4593
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.73142
<b>Current Fac Name:</b>	MARS CARS		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	22337	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	180001100.0	<b>LTF:</b>	6 Closure of regulated UST
<b>Last Review Date:</b>	6/14/2000	<b>Rating:</b>	13
<b>Release Date:</b>	5/10/2000	<b>Facility Name:</b>	MARS CARS
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	6409 DENNISON AVE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Last Update Date:</b>	10/13/2020				<b>Facility City:</b> CLEVELAND	
<b>Status:</b>	NFA: No Further Action				<b>Facility State:</b> Ohio	
<b>Last Status Update:</b>	6/14/2000				<b>County:</b> Cuyahoga	
<b>Substatus:</b>	Approved				<b>Facility ZIP:</b> 44105	
<b>Priority:</b>	2				<b>Facility Latitude:</b> 41.459298	
<b>Class:</b>	D				<b>Facility Longitude:</b> -81.731424	
<b>Rules:</b>	1999					

[45](#) 1 of 1 **NW** **0.46 / 2,417.68** **700.84 / 1** **REDDEN AUTO BODY** **8116 LORAIN AVE** **CLEVELAND OH 44113** **LUST**

<b>Release No:</b>	18002554 - N00001	<b>Release No (Map):</b>	18002554-N00001
<b>Facility Name:</b>	REDDEN AUTO BODY	<b>Fac Name (Map):</b>	ELLSWORTH REDDEN
<b>Facility Address:</b>	8116 LORAIN AVE	<b>Fac Address (Map):</b>	8116 LORAIN AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44113
<b>Facility ZIP:</b>	44113	<b>County (Map):</b>	CUY
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.4713
<b>Facility Latitude:</b>	41.471147	<b>Longitude (Map):</b>	-81.74109
<b>Facility Longitude:</b>	-81.741009	<b>Fac ID (BUSTR2):</b>	18002554
<b>Release No (OTTER):</b>	18002554-N00001	<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	REDDEN AUTO BODY	<b>Fac Name (BUSTR2):</b>	ELLSWORTH REDDEN
<b>FacAddress (OTTER):</b>	8116 LORAIN AVE	<b>Address (BUSTR2):</b>	8116 LORAIN AVE
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>	OH	<b>ZIP (BUSTR2):</b>	44113
<b>Fac ZIP (OTTER):</b>	44113	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.47115
<b>Latitude (OTTER):</b>	41.471147	<b>Longitude (BUSTR2):</b>	-81.74101
<b>Longitude (OTTER):</b>	-81.741009	<b>Release No (BUSTR):</b>	18002554-N00001
<b>Fac Name (BUSTR):</b>	REDDEN AUTO BODY	<b>Fac Addr (BUSTR):</b>	8116 LORAIN AVE
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44113	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.471147	<b>Longitude (BUSTR):</b>	-81.741009
<b>Facility (OTTER):</b>	18002554 (REDDEN AUTO BODY)		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)		

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	11/16/1996
<b>LTF Status:</b>	6 Closure of regulated UST	<b>Review Date:</b>	11/16/1996
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	11/04/1996	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	186117600.0	<b>Date Reported:</b>	11/4/1996
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	ELLSWORTH REDDEN
<b>Facility:</b>	18002554 (REDDEN AUTO BODY)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#8489">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#8489</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33140">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33140</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.74109
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S90
<b>Label:</b>	18002554 - N00001 ELLSWORTH REDDEN	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18002554 - N00001	<b>Facility Z:</b>	44113
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	8116 Lorain Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.74109

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
ZIP Out:	44102-4258			Y:	41.4713	
Lat:	41.4713					

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	20822	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18002554	<b>Address:</b>	8116 LORAIN AVE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	6 Closure of regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44113
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.47115
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.74101
<b>Current Fac Name:</b>	ELLSWORTH REDDEN		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	29863	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	186117600.0	<b>LTF:</b>	6 Closure of regulated UST
<b>Last Review Date:</b>	11/16/1996	<b>Rating:</b>	
<b>Release Date:</b>	11/4/1996	<b>Facility Name:</b>	REDDEN AUTO BODY
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	8116 LORAIN AVE
<b>Last Update Date:</b>	1/7/2021	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	11/16/1996	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44113
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.471147
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.741009
<b>Rules:</b>	1992		

[46](#) 1 of 1 S 0.46 / 2,449.56 718.51 / 19 **PARMA MOVERS, INC.** **LUST**  
**3584 W 67TH ST**  
**CLEVELAND OH 44102**

<b>Release No:</b>	18007990 - N00001	<b>Release No (Map):</b>	18007990-N00001
<b>Facility Name:</b>	PARMA MOVERS, INC.	<b>Fac Name (Map):</b>	PARMA MOVERS, INC.
<b>Facility Address:</b>	3584 W 67TH ST	<b>Fac Address (Map):</b>	3584 W 67TH ST
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.45848
<b>Facility Latitude:</b>	41.458926	<b>Longitude (Map):</b>	-81.73496
<b>Facility Longitude:</b>	-81.734602	<b>Fac ID (BUSTR2):</b>	18007990
<b>Release No (OTTER):</b>	18007990-N00001	<b>IncidentID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	PARMA MOVERS, INC.	<b>Fac Name (BUSTR2):</b>	PARMA MOVERS, INC.
<b>FacAddress (OTTER):</b>	3584 W 67TH ST	<b>Address (BUSTR2):</b>	3584 W 67TH ST
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.45893
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.7346
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18007990-N00001
<b>Fac Name (BUSTR):</b>	PARMA MOVERS, INC.	<b>Fac Addr (BUSTR):</b>	3584 W 67TH ST
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.458926	<b>Longitude (BUSTR):</b>	-81.734602
<b>Facility (OTTER):</b>	18007990 (PARMA MOVERS, INC.)		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)		

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	6/27/1995
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	06/27/1995
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Release Date: 08/09/1993 Class: D  
 Class Description: A viable RP has been identified

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

Old Incident ID: 183155300.0 Date Reported: 8/9/1993  
 Tank Status: No Tanks Available Owner Busi Name: PARMA MOVERS, INC.  
 Facility: 18007990 (PARMA MOVERS, INC.)  
 Facility Link: https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#13050  
 Release Link: https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34621

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

Object ID:		Long:	-81.73496
FR Status:	NFA: No Further Action	Match:	S80
Label:	18007990 - N00001 PARMA MOVERS, INC.	LOC QUAL:	MAF7
Release No:	18007990 - N00001	Facility Z:	44102
Date:	9/21/2020	LOC CONF:	1
Address Out:	3584 W 67th St	Date Process:	20200923
City Out:	Cleveland	FID:	
State Out:	OH	X:	-81.73496
ZIP Out:	44102-5418	Y:	41.45848
Lat:	41.45848		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

Object ID:	21310	ODOT District:	12
Facility ID:	18007990	Address:	3584 W 67TH ST
Incident ID:	N00001	City:	CLEVELAND
LTF:	1 SUS/CON from regulated UST	County:	CUY
Status:	NFA: No Further Action	ZIP:	44102
Facility Status:	Inactive	Latitude DD Begin:	41.45893
Data Date:	2014-11-10 14:16:16.183	Longitude DD Begin:	-81.7346
Current Fac Name:	PARMA MOVERS, INC.		

**All Active-Inactive BUSTR Sites**

S No:	27679	Coordinator:	Charles Zepp
Incident No:	183155300.0	LTF:	1 SUS/CON from regulated UST
Last Review Date:	6/27/1995	Rating:	
Release Date:	8/9/1993	Facility Name:	PARMA MOVERS, INC.
Last Update:	Charles Zepp	Facility Address:	3584 W 67TH ST
Last Update Date:	2/12/2021	Facility City:	CLEVELAND
Status:	NFA: No Further Action	Facility State:	Ohio
Last Status Update:	6/27/1995	County:	Cuyahoga
Substatus:	Approved	Facility ZIP:	44102
Priority:	2	Facility Latitude:	41.458926
Class:	D	Facility Longitude:	-81.734602
Rules:	1992		

<a href="#">47</a>	1 of 1	WSW	0.47 / 2,492.29	740.10 / 41	RALF'S AUTO SERVICE 8606 DENNISON AVE CLEVELAND OH 44102	LUST
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Release No:	18010613 - N00001	Release No (Map):	18010613-N00001
Facility Name:	RALF'S AUTO SERVICE	Fac Name (Map):	RALF'S AUTO SERVICE
Facility Address:	8606 DENNISON AVE	Fac Address (Map):	8606 DENNISON AVE
Facility City:	CLEVELAND	Fac City (Map):	CLEVELAND
Facility State:	Ohio	Fac ZIP (Map):	44102
Facility ZIP:	44102	County (Map):	
County:	Cuyahoga	Latitude (Map):	41.4643
Facility Latitude:	41.464185	Longitude (Map):	-81.7439
Facility Longitude:	-81.743833	Fac ID (BUSTR2):	18010613

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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<b>Release No (OTTER):</b>	18010613-N00001				<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	RALF'S AUTO SERVICE				<b>Fac Name (BUSTR2):</b>	RALF AUTO SERV
<b>FacAddress (OTTER):</b>	8606 DENNISON AVE				<b>Address (BUSTR2):</b>	8606 DENNISON AVE
<b>Fac City (OTTER):</b>	CLEVELAND				<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>					<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102				<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga				<b>Latitude (BUSTR2):</b>	41.46419
<b>Latitude (OTTER):</b>					<b>Longitude (BUSTR2):</b>	-81.74383
<b>Longitude (OTTER):</b>					<b>Release No (BUSTR):</b>	18010613-N00001
<b>Fac Name (BUSTR):</b>	RALF'S AUTO SERVICE				<b>Fac Addr (BUSTR):</b>	8606 DENNISON AVE
<b>Fac City (BUSTR):</b>	CLEVELAND				<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102				<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.464185				<b>Longitude (BUSTR):</b>	-81.743833
<b>Facility (OTTER):</b>	18010613 (RALF'S AUTO SERVICE)					
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGRI) (BUSTR2)					

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	10/31/1991
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	10/31/1991
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	09/15/1989	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	18971500.0	<b>Date Reported:</b>	9/15/1989
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	RALF AUTO SERV
<b>Facility:</b>	18010613 (RALF'S AUTO SERVICE)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#14080">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#14080</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33895">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=33895</a>		

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.7439
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S88
<b>Label:</b>	18010613 - N00001 RALF'S AUTO SERVICE	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18010613 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	8606 Denison Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.7439
<b>ZIP Out:</b>	44102-4924	<b>Y:</b>	41.4643
<b>Lat:</b>	41.4643		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	22025	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18010613	<b>Address:</b>	8606 DENNISON AVE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.46419
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.74383
<b>Current Fac Name:</b>	RALF AUTO SERV		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	29611	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	18971500.0	<b>LTF:</b>	1 SUS/CON from regulated UST
<b>Last Review Date:</b>	10/31/1991	<b>Rating:</b>	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Release Date:</b>	9/15/1989				<b>Facility Name:</b>	RALF'S AUTO SERVICE
<b>Last Update:</b>	Charles Zepp				<b>Facility Address:</b>	8606 DENNISON AVE
<b>Last Update Date:</b>	6/3/2021				<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action				<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	10/31/1991				<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved				<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2				<b>Facility Latitude:</b>	41.464185
<b>Class:</b>	D				<b>Facility Longitude:</b>	-81.743833
<b>Rules:</b>	1992					

[48](#) 1 of 2 **ENE** **0.48 / 2,554.91** **689.90 / -10** **B & B WRECKING & EXCAVATING** **5801 TRAIN AVE** **CLEVELAND OH 44102** **LUST**

<b>Release No:</b>	18009153 - N00001	<b>Release No (Map):</b>	18009153-N00001
<b>Facility Name:</b>	B & B WRECKING & EXCAVATING	<b>Fac Name (Map):</b>	B & B WRECKING & EXCAVATING
<b>Facility Address:</b>	5801 TRAIN AVE	<b>Fac Address (Map):</b>	5801 TRAIN AVE
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.47061
<b>Facility Latitude:</b>	41.4719	<b>Longitude (Map):</b>	-81.72544
<b>Facility Longitude:</b>	-81.7173	<b>Fac ID (BUSTR2):</b>	18009153
<b>Release No (OTTER):</b>	18009153-N00001	<b>IncidntID (BUSTR2):</b>	N00001
<b>Fac Name (OTTER):</b>	B & B WRECKING & EXCAVATING	<b>Fac Name (BUSTR2):</b>	B & B WRECKING & EXCAVATING
<b>FacAddress (OTTER):</b>	5801 TRAIN AVE	<b>Address (BUSTR2):</b>	5801 TRAIN AVE
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND
<b>Fac State (OTTER):</b>		<b>ZIP (BUSTR2):</b>	44102
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.4719
<b>Latitude (OTTER):</b>		<b>Longitude (BUSTR2):</b>	-81.7173
<b>Longitude (OTTER):</b>		<b>Release No (BUSTR):</b>	18009153-N00001
<b>Fac Name (BUSTR):</b>	B & B WRECKING & EXCAVATING	<b>Fac Addr (BUSTR):</b>	5801 TRAIN AVE
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH
<b>Fac ZIP (BUSTR):</b>	44102	<b>Fac County (BUSTR):</b>	Cuyahoga
<b>Latitude (BUSTR):</b>	41.4719	<b>Longitude (BUSTR):</b>	-81.7173
<b>Facility (OTTER):</b>	18009153 (B & B WRECKING & EXCAVATING)		
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)		

#### Facility Details with Active & Inactive Environmental Files (BUSTR)

<b>Facility Status:</b>	Inactive	<b>Date Last Change:</b>	10/2/1992
<b>LTF Status:</b>	1 SUS/CON from regulated UST	<b>Review Date:</b>	10/02/1992
<b>FR Status:</b>	NFA: No Further Action	<b>Priority:</b>	2
<b>Release Date:</b>	08/01/1990	<b>Class:</b>	D
<b>Class Description:</b>	A viable RP has been identified		

#### Ohio Tank Tracking & Environmental Regulations (OTTER)

<b>Old Incident ID:</b>	180177200.0	<b>Date Reported:</b>	8/1/1990
<b>Tank Status:</b>	No Tanks Available	<b>Owner Busi Name:</b>	B & B WRECKING & EXCAVATING
<b>Facility:</b>	18009153 (B & B WRECKING & EXCAVATING)		
<b>Facility Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#23576">https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#23576</a>		
<b>Release Link:</b>	<a href="https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34544">https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34544</a>		

#### Map Services Directory: BUSTR (MapServer): All Environmental (MAP)

<b>Object ID:</b>		<b>Long:</b>	-81.72544
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18009153 - N00001 B & B WRECKING & EXCAVATING	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18009153 - N00001	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Address Out:	5801 Train Ave				Date Process:	20200923
City Out:	Cleveland				FID:	
State Out:	OH				X:	-81.72544
ZIP Out:	44102-4423				Y:	41.47061
Lat:	41.47061					

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	21407	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18009153	<b>Address:</b>	5801 TRAIN AVE
<b>Incident ID:</b>	N00001	<b>City:</b>	CLEVELAND
<b>LTF:</b>	1 SUS/CON from regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.4719
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.7173
<b>Current Fac Name:</b>	B & B WRECKING & EXCAVATING		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	2821	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	180177200.0	<b>LTF:</b>	1 SUS/CON from regulated UST
<b>Last Review Date:</b>	10/2/1992	<b>Rating:</b>	0
<b>Release Date:</b>	8/1/1990	<b>Facility Name:</b>	B & B WRECKING & EXCAVATING
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	5801 TRAIN AVE
<b>Last Update Date:</b>	3/4/2021	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	10/2/1992	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.4719
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.7173
<b>Rules:</b>	1992		

<a href="#">48</a>	2 of 2	<b>ENE</b>	<b>0.48 / 2,554.91</b>	<b>689.90 / -10</b>	<b>B &amp; B WRECKING &amp; EXCAVATING 5801 TRAIN AVE CLEVELAND OH 44102</b>	<b>LUST</b>
<b>Release No:</b>	18009153 - N00002	<b>Release No (Map):</b>	18009153-N00002			
<b>Facility Name:</b>	B & B WRECKING & EXCAVATING	<b>Fac Name (Map):</b>	B & B WRECKING & EXCAVATING			
<b>Facility Address:</b>	5801 TRAIN AVE	<b>Fac Address (Map):</b>	5801 TRAIN AVE			
<b>Facility City:</b>	CLEVELAND	<b>Fac City (Map):</b>	CLEVELAND			
<b>Facility State:</b>	Ohio	<b>Fac ZIP (Map):</b>	44102			
<b>Facility ZIP:</b>	44102	<b>County (Map):</b>	CUY			
<b>County:</b>	Cuyahoga	<b>Latitude (Map):</b>	41.47061			
<b>Facility Latitude:</b>	41.4719	<b>Longitude (Map):</b>	-81.72544			
<b>Facility Longitude:</b>	-81.7173	<b>Fac ID (BUSTR2):</b>	18009153			
<b>Release No (OTTER):</b>	18009153-N00002	<b>IncidentID (BUSTR2):</b>	N00002			
<b>Fac Name (OTTER):</b>	B & B WRECKING & EXCAVATING	<b>Fac Name (BUSTR2):</b>	B & B WRECKING & EXCAVATING			
<b>FacAddress (OTTER):</b>	5801 TRAIN AVE	<b>Address (BUSTR2):</b>	5801 TRAIN AVE			
<b>Fac City (OTTER):</b>	CLEVELAND	<b>City (BUSTR2):</b>	CLEVELAND			
<b>Fac State (OTTER):</b>	OH	<b>ZIP (BUSTR2):</b>	44102			
<b>Fac ZIP (OTTER):</b>	44102	<b>County (BUSTR2):</b>	CUY			
<b>County (OTTER):</b>	Cuyahoga	<b>Latitude (BUSTR2):</b>	41.4719			
<b>Latitude (OTTER):</b>	41.4719	<b>Longitude (BUSTR2):</b>	-81.7173			
<b>Longitude (OTTER):</b>	-81.7173	<b>Release No (BUSTR):</b>	18009153-N00002			
<b>Fac Name (BUSTR):</b>	B & B WRECKING & EXCAVATING	<b>Fac Addr (BUSTR):</b>	5801 TRAIN AVE			
<b>Fac City (BUSTR):</b>	CLEVELAND	<b>Fac State (BUSTR):</b>	OH			
<b>Fac ZIP (BUSTR):</b>	44102	<b>Fac County (BUSTR):</b>	Cuyahoga			
<b>Latitude (BUSTR):</b>	41.4719	<b>Longitude (BUSTR):</b>	-81.7173			
<b>Facility (OTTER):</b>	18009153 (B & B WRECKING & EXCAVATING)					
<b>Data Source:</b>	Ohio Tank Tracking & Environmental Regulations (OTTER); Map Services Directory: BUSTR (MapServer): All Environmental (MAP); Facility Details with Active & Inactive Environmental Files (BUSTR); Map Services Directory: BUSTR - LUST Locations (BUSTR/OGrip) (BUSTR2)					

**Facility Details with Active & Inactive Environmental Files (BUSTR)**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Facility Status:</b>	Inactive				<b>Date Last Change:</b> 11/18/1999	
<b>LTF Status:</b>	6 Closure of regulated UST				<b>Review Date:</b> 11/18/1999	
<b>FR Status:</b>	NFA: No Further Action				<b>Priority:</b> 2	
<b>Release Date:</b>	06/04/1999				<b>Class:</b> D	
<b>Class Description:</b>	A viable RP has been identified					

**Ohio Tank Tracking & Environmental Regulations (OTTER)**

<b>Old Incident ID:</b>	180177201.0				<b>Date Reported:</b> 6/4/1999	
<b>Tank Status:</b>	No Tanks Available				<b>Owner Busi Name:</b> B & B WRECKING & EXCAVATING	
<b>Facility:</b>	18009153 (B & B WRECKING & EXCAVATING)					
<b>Facility Link:</b>	https://apps.com.ohio.gov/fire/OTTER/Home/Index?ReturnUrl=%2ffire%2fOTTER%2fInquiry%2fInquiry#23576					
<b>Release Link:</b>	https://apps.com.ohio.gov/fire/OTTER/CorrectiveAction/ReleaseReport?releasesId=34545					

**Map Services Directory: BUSTR (MapServer): All Environmental (MAP)**

<b>Object ID:</b>		<b>Long:</b>	-81.72544
<b>FR Status:</b>	NFA: No Further Action	<b>Match:</b>	S80
<b>Label:</b>	18009153 - N00002 B & B WRECKING & EXCAVATING	<b>LOC QUAL:</b>	MAF7
<b>Release No:</b>	18009153 - N00002	<b>Facility Z:</b>	44102
<b>Date:</b>	9/21/2020	<b>LOC CONF:</b>	1
<b>Address Out:</b>	5801 Train Ave	<b>Date Process:</b>	20200923
<b>City Out:</b>	Cleveland	<b>FID:</b>	
<b>State Out:</b>	OH	<b>X:</b>	-81.72544
<b>ZIP Out:</b>	44102-4423	<b>Y:</b>	41.47061
<b>Lat:</b>	41.47061		

**Map Services Directory: BUSTR - LUST Locations (BUSTR2)**

<b>Object ID:</b>	21408	<b>ODOT District:</b>	12
<b>Facility ID:</b>	18009153	<b>Address:</b>	5801 TRAIN AVE
<b>Incident ID:</b>	N00002	<b>City:</b>	CLEVELAND
<b>LTF:</b>	6 Closure of regulated UST	<b>County:</b>	CUY
<b>Status:</b>	NFA: No Further Action	<b>ZIP:</b>	44102
<b>Facility Status:</b>	Inactive	<b>Latitude DD Begin:</b>	41.4719
<b>Data Date:</b>	2014-11-10 14:16:16.183	<b>Longitude DD Begin:</b>	-81.7173
<b>Current Fac Name:</b>	B & B WRECKING & EXCAVATING		

**All Active-Inactive BUSTR Sites**

<b>S No:</b>	2822	<b>Coordinator:</b>	Charles Zepp
<b>Incident No:</b>	180177201.0	<b>LTF:</b>	6 Closure of regulated UST
<b>Last Review Date:</b>	11/18/1999	<b>Rating:</b>	14
<b>Release Date:</b>	6/4/1999	<b>Facility Name:</b>	B & B WRECKING & EXCAVATING
<b>Last Update:</b>	Charles Zepp	<b>Facility Address:</b>	5801 TRAIN AVE
<b>Last Update Date:</b>	3/4/2021	<b>Facility City:</b>	CLEVELAND
<b>Status:</b>	NFA: No Further Action	<b>Facility State:</b>	Ohio
<b>Last Status Update:</b>	11/18/1999	<b>County:</b>	Cuyahoga
<b>Substatus:</b>	Approved	<b>Facility ZIP:</b>	44102
<b>Priority:</b>	2	<b>Facility Latitude:</b>	41.4719
<b>Class:</b>	D	<b>Facility Longitude:</b>	-81.7173
<b>Rules:</b>	1992		

[49](#)

1 of 4

NNW

0.49 /  
2,594.03

697.04 /  
-2

11623 Lake Avenue  
7500 Elton Ct  
Cleveland OH 44102

FED  
BROWNFIELDS

<b>Property ID:</b>	12635	<b>BF Property (Map):</b>	12635
<b>Lat Measure:</b>	41.47411	<b>Latitude (Map):</b>	41.47411
<b>Long Measure:</b>	-81.736969	<b>Longitude (Map):</b>	-81.736969
<b>Property Name:</b>	11623 Lake Avenue		
<b>Address:</b>	7500 Elton Ct		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
City:		Cleveland				
State Code:		OH				
Zip Code:		44102				
Primary Name (Map):		11623 LAKE AVENUE				
Location Address (Map):		7500 ELTON CT				
City Name (Map):		CLEVELAND				
County Name (Map):		CUYAHOGA				
State Code (Map):		OH				
Postal Code (Map):		44102				

### Brownfields Details

Registry I:	110039545551	EPA ID:	
EPA Region:	05	BF RLF Gra:	
Cat No:	04110001	BF RLF Pil:	
RCRA Handl:		BF Assess :	Y
RCRA Curre:		BF Cleanup:	
RCRA Remed:		BF Tba Ind:	
RCRA Const:		BF 128a In:	
RCRA El He:		BF IC Code:	U
RCRA El Gm:		BF IC Gc I:	U
RCRA Rem 1:		BF IC Ep I:	U
RCRA Ec Gw:		BF IC ID I:	U
RCRA Ec Ng:		BF IC Pr I:	U
RCRA IC Ep:		FF Brac In:	
RCRA IC Gc:		BF RLF Ind:	
RCRA IC ID:		BF Assess1:	
RCRA IC Pr:		BF Multipu:	
FF RCRA In:		BF Awp Ind:	
RCRA Trans:		BF Showcas:	
RCRA Tra 1:		BF 128a P :	
RCRA Ec Co:		LUST Relea:	
RCRA IC Co:		LUST Award:	
RCRA Gpra :		LUST State:	
RCRA Rem 2:		Congressio:	OH-11
RCRA Dru 1:		FD Agency :	
SF Site ID:		FD Listing:	
SF Ec Ind:		FD Non NPL:	
SF El Gm C:		FD RCRA Ha:	
SF El He C:		FD RCRA Ca:	
SF IC Ind:		FD SF NPL :	
SF NPL Cod:		FD FF Ind:	
SF NPL C 1:		FD Ej Code:	
SF Admin F:		FD Brac In:	
FF And Sit:		FD Federal:	
FF SF Ind:		FD Hrs Sco:	
Map Symbol:	B	FD Ongoing:	
Data Refre:	29-Jul-2022	FD NPL Sta:	
GIS Refres:		FD Non N 1:	
New Site:		FD RCRA Gw:	
Repow Ref :	<a href="https://cimc.epa.gov/ords/cimc/f?p=CIMC:REPOWER:::::P33_REF:22017">https://cimc.epa.gov/ords/cimc/f?p=CIMC:REPOWER:::::P33_REF:22017</a>	FD RCRA He:	
EPAOSC Sit:		FD GMS Sur:	
EPAOSC Res:		FD Hes Sur:	
EPAOSC R 1:		FD SF Site:	
EPAOSC Sta:		FD Brac Ro:	
EPAOSC Inc:		Stimulus S:	
Desc :		Stimulus B:	
Ind Name:			
Cat Name:	Black-Rocky		
Sub Name:	Black-Rocky		
Primary Name:	11623 LAKE AVENUE		
RCRA Drupa:			
Url:	<a href="https://obipublic11.epa.gov/analytics/saw.dll?PortalPages&amp;Action=Navigate&amp;col1=ACRES_GRANT_EXPORT.PROPERTY_ID&amp;val1=%2212635.0%22&amp;PortalPath=/shared/CIMC/_portal/CIMC&amp;Page=Profile+Page">https://obipublic11.epa.gov/analytics/saw.dll?PortalPages&amp;Action=Navigate&amp;col1=ACRES_GRANT_EXPORT.PROPERTY_ID&amp;val1=%2212635.0%22&amp;PortalPath=/shared/CIMC/_portal/CIMC&amp;Page=Profile+Page</a>		
Census Url:	<a href="https://ejscreen.epa.gov/mapper/demogreportpdf.aspx?report=census2010sf1&amp;coords=-81.736969%2C41.47410999999996&amp;featype=point&amp;radius=1.0">https://ejscreen.epa.gov/mapper/demogreportpdf.aspx?report=census2010sf1&amp;coords=-81.736969%2C41.47410999999996&amp;featype=point&amp;radius=1.0</a>		
ACS Url:	<a href="https://ejscreen.epa.gov/mapper/demogreportpdf.aspx?report=acs2017&amp;coords=-81.736969%2C41.">https://ejscreen.epa.gov/mapper/demogreportpdf.aspx?report=acs2017&amp;coords=-81.736969%2C41.</a>		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
474109999999996&featype=point&radius=1.0						
SF Site Na:					UST Status:	
SF Non Npl:					UST Substa:	
SF Non N 1:					UST Landus:	
SF Non N 3:					UST SPA Wa:	
ERR Lat Lo:					UST SPA Fa:	
REPOW BF:	SGW				UST WHPA W:	
REPOW SF:					UST WHPA F:	
REPOW RCRA:					UST Open:	
REPOW Ref1:	22017				UST Closed:	
RCRA Han 1:					LUST ID:	
RCRA Rau I:					Saa Site:	
BF Propert:		12635-				
REPOW Re 1:		<a target="_blank" href="https://cimc.epa.gov/ords/cimc/f?p=CIMC:REPOWER::::P33_REF:22017">RE-Powering Site Profile</a>				
BF Prope 1:		11623 Lake Avenue				
SF Non N 2:						

**Cleanups In My Community (CIMC)**

Grant ID:	48550283	ASMT Cntrl Sub :	
Grant Type:	Assessment	Cleanup Cntrl Sub :	
EPA Region:	05	ASMT Asbestos :	
Ownership Entity:		Cleanup Asbestos :	
Latitude Measure:	41.47411	ASMT PcbS :	
Longitude Measure:	-81.736969	Cleanup PcbS :	
Flag Cleanup Reqcd:		ASMT VocS :	
Flag IC Required:		Cleanup VocS :	
Stcntrbg:		ASMT Lead :	
Property Size:		Cleanup Lead :	
Flag IC in Place:	U	ASMT Oth Metal :	
IC in Place Date:		Cleanup Oth Metal :	
Prop Cntrl :		ASMT Pahs :	
Gov Cntrl :		Cleanup Pahs :	
Permit Tools :		ASMT Oth Cont:	
Info DevICes :		Cleanup Oth Cont:	
Prop Fnding Type Cd:		ASMT Air :	
Ownshp Changed :		Cleanup Air :	
Sflp Factor :		ASMT Drk Wat:	
Source Mapscale No:		Cleanup Drk Wat:	
Past Cml Acres:		ASMT Grd Water:	
Future Cml Acres:		Cleanup Grd Water:	
Past Grnspc Acres:		ASMT Sediments :	
Future Grnspc Acres:		Cleanup Sediments :	
Past Acres:		ASMT Soil :	
Future Acres:		Cleanup Soil :	
Past Res Acres:		ASMT Srf Water :	
Future Res Acres:		Cleanup Srf Water :	
St Enrollment Dt:		Other Media :	
St Enrollment ID:		Unknown Media :	
St NFA Dt:		Ready For Reuse :	N
Assess Petrol Prod :		Assess Amount:	
Cleanup Petrol Prod :		Assess Fnd Ent Nm:	
Assess Start Dt:	12/31/2001	Photo Available :	
Assess Cmpltn Dt:	12/31/2001	Video Available :	
Cleanup Start Dt:		Cleanup Acres:	
Cleanup Cmpltn Dt:		Cleanup Amount:	
Redev Start Dt:		Redev Acres:	
Redev Cleanup Jobs:		Redev Amount:	
Grant Recipient Nm:	Cleveland, City of		
PropertyNm:	11623 Lake Avenue		
Address:	7500 Elton Ct		
City:	Cleveland		
State Code:	OH		
Zip Code:	44102		
Local Parcel No:			
Current Owner:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>IC Data Address:</b>						
<b>Horizontal Collection Method:</b>						
<b>Reference Point:</b>						
<b>Horizontal Reference Datum:</b>						
<b>Other Description:</b>						
<b>Other Desc Cleaned Up:</b>						
<b>Assess Type:</b>		Phase I Environmental Assessment				
<b>Assess Fund Entity:</b>						
<b>Cleanup Funding EntityNm:</b>						
<b>Cleanup Fund Entity:</b>						
<b>Redev Funding Entity Nm:</b>						
<b>Desc Hist:</b>						
<b>Accmplisht Cnt Flag:</b>	N					
<b>Coop Agreement No:</b>	98594901					
<b>Past Mltistry Acres:</b>		<b>Vacant Housing:</b> 809				
<b>Ftr Multistory Acres:</b>		<b>Vacant Housing Pct:</b> 26.12				
<b>Assess Cadmium :</b>		<b>Total Unemployed:</b> 650				
<b>Clnup Cadmium :</b>		<b>Unemployed Pct:</b> 10.76				
<b>Assess Chromium :</b>		<b>Radius:</b> .5				
<b>Clnup Chromium :</b>		<b>Actvy Funded:</b>				
<b>Assess Copper :</b>		<b>Redev Lvrgd Srcs:</b>				
<b>Clnup Copper :</b>		<b>AA Amt Funding:</b>				
<b>Assess Iron :</b>		<b>Flag Clnup Trmt Tech:</b>				
<b>Clnup Iron :</b>		<b>Excavation Disposal:</b>				
<b>Assess Nickel :</b>		<b>Extrctn of Cntmnts:</b>				
<b>Clnup Nickel :</b>		<b>Removal of Mats:</b>				
<b>Assess Selenium :</b>		<b>Rdctn of Cntmnts:</b>				
<b>Clnup Selenium :</b>		<b>Clnup of Structures:</b>				
<b>Assess Mercury :</b>		<b>Env EC Required:</b>				
<b>Clnup Mercury :</b>		<b>Flag EC Cover Tech:</b>				
<b>Assess ArsenIC :</b>		<b>Flag EC Security:</b>				
<b>Clnup ArsenIC :</b>		<b>Flag EC Immblyzn:</b>				
<b>Assess Bldg Mats :</b>		<b>Flag EC Eng Barriers:</b>				
<b>Clnup Bldg Mats :</b>		<b>Flag EC Other:</b>				
<b>Assess oorair :</b>		<b>Env IC in Place:</b> U				
<b>Clnup oorair :</b>		<b>Env EC in Place:</b>				
<b>Assess None :</b>		<b>Env Clnup Jobs:</b>				
<b>Clnup None :</b>		<b>Sect 128 A State Trbl:</b>				
<b>Assess Pesticides :</b>		<b>Multipurpose:</b>				
<b>Clnup Pesticides :</b>		<b>Clnup Cst Shr Amt:</b>				
<b>Assess Unknown :</b>		<b>RLF Loan Amount:</b>				
<b>Clnup Unknown :</b>		<b>RLF Ln Cst Shr Amt:</b>				
<b>Assess Svocs :</b>		<b>Pro Income Amt:</b>				
<b>Clnup Svocs :</b>		<b>Dt RLF Loan Signed:</b>				
<b>Assess Unkn Media :</b>		<b>Repayment Period:</b>				
<b>Clnup Unkn Media :</b>		<b>Interest Rate:</b>				
<b>Redev Cmpltn Date:</b>		<b>RLF Subgrant Amt:</b>				
<b>Pro Code:</b>	BP	<b>Cost Share Amt:</b>				
<b>FCA Fy:</b>		<b>Env Pro Income Amt:</b>				
<b>Flag EC in Place:</b>		<b>Dt RLF Sbrgrnt Signd:</b>				
<b>Flag EC Required:</b>		<b>Clnup Actvy Funded:</b>				
<b>RFR Notation:</b>		<b>Below Poverty:</b> 2470				
<b>Gpa Type ID:</b>	1	<b>Below Poverty Pct:</b> 40.87				
<b>Clnup Doc:</b>	N	<b>Median Income:</b> 6789				
<b>Awp Catalyst Yn:</b>		<b>Low Income:</b> 4068				
<b>Flag Prop Not Enrld:</b>		<b>Low Income Pct:</b> 67.32				
<b>Redev Fund Entity:</b>						
<b>Gpa Type Desc:</b>		Phase I Environmental Assessment				
<b>AA Actvy Funded:</b>						
<b>AA Source of Funding:</b>						
<b>Clnup Trmt Tech Info:</b>						
<b>EC Data Address:</b>						
<b>EC Addl Info:</b>						
<b>Env IC Data Address:</b>						
<b>Other Forms of Doc:</b>						
<b>IC Addl Info:</b>						
<b>Highlights:</b>						
<b>Property Alias:</b>		Fifth Church of Christ Science Building				
<b>Ctmnt Found:</b>						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Ctmnt Cleanedup:  
Ctmnt Rec:

Media Affected:

<a href="#">49</a>	2 of 4	NNW	0.49 / 2,594.03	697.04 / -2	11209-11405 Kinsman Property #1 7500 Elton Ct Cleveland OH 44102	FED BROWNFIELDS
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<b>Property ID:</b>	12636	<b>BF Property (Map):</b>	12636
<b>Lat Measure:</b>	41.47411	<b>Latitude (Map):</b>	41.47411
<b>Long Measure:</b>	-81.736969	<b>Longitude (Map):</b>	-81.736969
<b>Property Name:</b>	11209-11405 Kinsman Property #1		
<b>Address:</b>	7500 Elton Ct		
<b>City:</b>	Cleveland		
<b>State Code:</b>	OH		
<b>Zip Code:</b>	44102		
<b>Primary Name (Map):</b>	11209-11405 KINSMAN PROPERTY #2		
<b>Location Address (Map):</b>	7500 ELTON CT		
<b>City Name (Map):</b>	CLEVELAND		
<b>County Name (Map):</b>	CUYAHOGA		
<b>State Code (Map):</b>	OH		
<b>Postal Code (Map):</b>	44102		

**Brownfields Details**

<b>Registry I:</b>	110039545588	<b>EPA ID:</b>	
<b>EPA Region:</b>	05	<b>BF RLF Gra:</b>	
<b>Cat No:</b>	04110001	<b>BF RLF Pil:</b>	
<b>RCRA Handl:</b>		<b>BF Assess :</b>	Y
<b>RCRA Curre:</b>		<b>BF Cleanup:</b>	
<b>RCRA Remed:</b>		<b>BF Tba Ind:</b>	
<b>RCRA Const:</b>		<b>BF 128a In:</b>	
<b>RCRA El He:</b>		<b>BF IC Code:</b>	U
<b>RCRA El Gm:</b>		<b>BF IC Gc I:</b>	U
<b>RCRA Rem 1:</b>		<b>BF IC Ep I:</b>	U
<b>RCRA Ec Gw:</b>		<b>BF IC ID I:</b>	U
<b>RCRA Ec Ng:</b>		<b>BF IC Pr I:</b>	U
<b>RCRA IC Ep:</b>		<b>FF Brac In:</b>	
<b>RCRA IC Gc:</b>		<b>BF RLF Ind:</b>	
<b>RCRA IC ID:</b>		<b>BF Assess1:</b>	
<b>RCRA IC Pr:</b>		<b>BF Multipu:</b>	
<b>FF RCRA In:</b>		<b>BF Awp Ind:</b>	
<b>RCRA Trans:</b>		<b>BF Showcas:</b>	
<b>RCRA Tra 1:</b>		<b>BF 128a P :</b>	
<b>RCRA Ec Co:</b>		<b>LUST Relea:</b>	
<b>RCRA IC Co:</b>		<b>LUST Award:</b>	
<b>RCRA Gpra :</b>		<b>LUST State:</b>	
<b>RCRA Rem 2:</b>		<b>Congressio:</b>	OH-11
<b>RCRA Dru 1:</b>		<b>FD Agency :</b>	
<b>SF Site ID:</b>		<b>FD Listing:</b>	
<b>SF Ec Ind:</b>		<b>FD Non NPL:</b>	
<b>SF El Gm C:</b>		<b>FD RCRA Ha:</b>	
<b>SF El He C:</b>		<b>FD RCRA Ca:</b>	
<b>SF IC Ind:</b>		<b>FD SF NPL :</b>	
<b>SF NPL Cod:</b>		<b>FD FF Ind:</b>	
<b>SF NPL C 1:</b>		<b>FD Ej Code:</b>	
<b>SF Admin F:</b>		<b>FD Brac In:</b>	
<b>FF And Sit:</b>		<b>FD Federal:</b>	
<b>FF SF Ind:</b>		<b>FD Hrs Sco:</b>	
<b>Map Symbol:</b>	B	<b>FD Ongoing:</b>	
<b>Data Refre:</b>	29-Jul-2022	<b>FD NPL Sta:</b>	
<b>GIS Refres:</b>		<b>FD Non N 1:</b>	
<b>New Site:</b>		<b>FD RCRA Gw:</b>	
<b>Repow Ref :</b>	https://cimc.epa.gov/ords/cimc/f?p=CIMC:REPOWER:::::P33_REF:34607	<b>FD RCRA He:</b>	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
EPAOSC Sit:					FD GMS Sur:	
EPAOSC Res:					FD Hes Sur:	
EPAOSC R 1:					FD SF Site:	
EPAOSC Sta:					FD Brac Ro:	
EPAOSC Inc:					Stimulus S:	
Desc :					Stimulus B:	
Ind Name:						
Cat Name:		Black-Rocky				
Sub Name:		Black-Rocky				
Primary Name:		11209-11405 KINSMAN PROPERTY #2				
RCRA Drupa:						
Url:					https://obipublic11.epa.gov/analytics/saw.dll?PortalPages&Action=Navigate&col1=ACRES_GRANT_EXPORT.PROPERTY_ID&val1=%2212636.0%22&PortalPath=/shared/CIMC/_portal/CIMC&Page=Profile+Page474109999999996&featype=point&radius=1.0	
Census Url:					https://ejscreen.epa.gov/mapper/demogreportpdf.aspx?report=census2010sf1&coords=-81.736969%2C41.474109999999996&featype=point&radius=1.0	
ACS Url:					https://ejscreen.epa.gov/mapper/demogreportpdf.aspx?report=acs2017&coords=-81.736969%2C41.474109999999996&featype=point&radius=1.0	
SF Site Na:					UST Status:	
SF Non Npl:					UST Substa:	
SF Non N 1:					UST Landus:	
SF Non N 3:					UST SPA Wa:	
ERR Lat Lo:					UST SPA Fa:	
REPOW BF:	SGW				UST WHPA W:	
REPOW SF:					UST WHPA F:	
REPOW RCRA:					UST Open:	
REPOW Ref1:	34607				UST Closed:	
RCRA Han 1:					LUST ID:	
RCRA Rau I:					Saa Site:	
BF Propert:		12636-				
REPOW Re 1:		<a target="_blank" href="https://cimc.epa.gov/ords/cimc/f?p=CIMC:REPOWER:::P33_REF:34607">RE-Powering Site Profile</a>				
BF Prope 1:		11209-11405 Kinsman Property #1				
SF Non N 2:						
<b>Cleanups In My Community (CIMC)</b>						
Grant ID:	48550283				ASMT Cntrl Sub :	
Grant Type:	Assessment				Cleanup Cntrl Sub :	
EPA Region:	05				ASMT Asbestos :	
Ownership Entity:					Cleanup Asbestos :	
Latitude Measure:	41.47411				ASMT Pcb's :	
Longitude Measure:	-81.736969				Cleanup Pcb's :	
Flag Cleanup Req'd:					ASMT Vocs :	
Flag IC Required:					Cleanup Vocs :	
Stcntrbg:					ASMT Lead :	
Property Size:					Cleanup Lead :	
Flag IC in Place:	U				ASMT Oth Metal :	
IC in Place Date:					Cleanup Oth Metal :	
Prop Cntrl :					ASMT Pahs :	
Gov Cntrl :					Cleanup Pahs :	
Permit Tools :					ASMT Oth Cont:	
Info Dev/Ces :					Cleanup Oth Cont:	
Prop Fnding Type Cd:					ASMT Air :	
Ownshp Changed :					Cleanup Air :	
Sflp Factor :					ASMT Drk Wat:	
Source Mapscale No:					Cleanup Drk Wat:	
Past Cml Acres:					ASMT Grd Water:	
Future Cml Acres:					Cleanup Grd Water:	
Past Grnspc Acres:					ASMT Sediments :	
Future Grnspc Acres:					Cleanup Sediments :	
Past Acres:					ASMT Soil :	
Future Acres:					Cleanup Soil :	
Past Res Acres:					ASMT Srf Water :	
Future Res Acres:					Cleanup Srf Water :	
St Enrollment Dt:					Other Media :	
St Enrollment ID:					Unknown Media :	
St NFA Dt:					Ready For Reuse :	N

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Assess Petrol Prod :					Assess Amount:	
Cleanup Petrol Prod :					Assess Fnd Ent Nm:	
Assess Start Dt:	06/30/2002				Photo Available :	
Assess Cmpltn Dt:	06/30/2002				Video Available :	
Cleanup Start Dt:					Cleanup Acres:	
Cleanup Cmpltn Dt:					Cleanup Amount:	
Redev Start Dt:					Redev Acres:	
Redev Cleanup Jobs:					Redev Amount:	
Grant Recipient Nm:		Cleveland, City of				
PropertyNm:		11209-11405 Kinsman Property #1				
Address:		7500 Elton Ct				
City:		Cleveland				
State Code:		OH				
Zip Code:		44102				
Local Parcel No:						
Current Owner:						
IC Data Address:						
Horizontal Collection Method:						
Reference Point:						
Horizontal Reference Datum:						
Other Description:						
Other Desc Cleaned Up:						
Assess Type:		Phase I Environmental Assessment				
Assess Fund Entity:						
Cleanup Funding EntityNm:						
Cleanup Fund Entity:						
Redev Funding Entity Nm:						
Desc Hist:						
Accmplisht Cnt Flag:	N				Vacant Housing:	809
Coop Agreement No:	98594901				Vacant Housing Pct:	26.12
Past Mltistry Acres:					Total Unemployed:	650
Ftr Multistory Acres:					Unemployed Pct:	10.76
Assess Cadmium :					Radius:	.5
Clnup Cadmium :					Actvy Funded:	
Assess Chromium :					Redev Lvrgd Srcs:	
Clnup Chromium :					AA Amt Funding:	
Assess Copper :					Flag Clnup Trmt Tech:	
Clnup Copper :					Excavation Disposal:	
Assess Iron :					Extrctn of Cntmnts:	
Clnup Iron :					Removal of Mats:	
Assess Nickel :					Rdctn of Cntmnts:	
Clnup Nickel :					Clnup of Structures:	
Assess Selenium :					Env EC Required:	
Clnup Selenium :					Flag EC Cover Tech:	
Assess Mercury :					Flag EC Security:	
Clnup Mercury :					Flag EC Immblztn:	
Assess ArsenIC :					Flag EC Eng Barriers:	
Clnup ArsenIC :					Flag EC Other:	
Assess Bldg Mats :					Env IC in Place:	U
Clnup Bldg Mats :					Env EC in Place:	
Assess oorair :					Env Clnup Jobs:	
Clnup oorair :					Sect 128 A State Trbl:	
Assess None :					Multipurpose:	
Clnup None :					Clnup Cst Shr Amt:	
Assess Pesticides :					RLF Loan Amount:	
Clnup Pesticides :					RLF Ln Cst Shr Amt:	
Assess Unknown :					Pro Income Amt:	
Clnup Unknown :					Dt RLF Loan Signed:	
Assess Svocs :					Repayment Period:	
Clnup Svocs :					Interest Rate:	
Clnup Unkn Media :					RLF Subgrant Amt:	
Redev Cmpltn Date:					Cost Share Amt:	
Pro Code:	BP				Env Pro Income Amt:	
FCA Fy:					Dt RLF Sbgrnt Signd:	
Flag EC in Place:					Clnup Actvy Funded:	
Flag EC Required:					Below Poverty:	2470
RFR Notation:					Below Poverty Pct:	40.87
Gpa Type ID:	1				Median Income:	6789

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Clnup Doc:	N				Low Income: 4068	
Awp Catalyst Yn:					Low Income Pct: 67.32	
Flag Prop Not Enrld:						
Redev Fund Entity:						
Gpa Type Desc:		Phase I Environmental Assessment				
AA Actvy Funded:						
AA Source of Funding:						
Clnup Trmt Tech Info:						
EC Data Address:						
EC Addl Info:						
Env IC Data Address:						
Other Forms of Doc:						
IC Addl Info:						
Highlights:						
Property Alias:						
Ctmnt Found:						
Ctmnt Cleanedup:						
Ctmnt Rec:						
Media Affected:						

[49](#) 3 of 4 **NNW** 0.49 / 2,594.03 697.04 / -2 11209-11405 Kinsman Property #2 7500 Elton Ct Cleveland OH 44102 **FED BROWNFIELDS**

**Property ID:** 12637 **BF Property (Map):** 12637  
**Lat Measure:** 41.47411 **Latitude (Map):** 41.47411  
**Long Measure:** -81.736969 **Longitude (Map):** -81.736969  
**Property Name:** 11209-11405 Kinsman Property #2  
**Address:** 7500 Elton Ct  
**City:** Cleveland  
**State Code:** OH  
**Zip Code:** 44102  
**Primary Name (Map):** 11209-11405 KINSMAN PROPERTY #2  
**Location Address (Map):** 7500 ELTON CT  
**City Name (Map):** CLEVELAND  
**County Name (Map):** CUYAHOGA  
**State Code (Map):** OH  
**Postal Code (Map):** 44102

**Brownfields Details**

<b>Registry I:</b> 110039545588	<b>EPA ID:</b>
<b>EPA Region:</b> 05	<b>BF RLF Gra:</b>
<b>Cat No:</b> 04110001	<b>BF RLF Pil:</b>
<b>RCRA Handl:</b>	<b>BF Assess :</b> Y
<b>RCRA Curre:</b>	<b>BF Cleanup:</b>
<b>RCRA Remed:</b>	<b>BF Tba Ind:</b>
<b>RCRA Const:</b>	<b>BF 128a In:</b>
<b>RCRA El He:</b>	<b>BF IC Code:</b> U
<b>RCRA El Gm:</b>	<b>BF IC Gc I:</b> U
<b>RCRA Rem 1:</b>	<b>BF IC Ep I:</b> U
<b>RCRA Ec Gw:</b>	<b>BF IC ID I:</b> U
<b>RCRA Ec Ng:</b>	<b>BF IC Pr I:</b> U
<b>RCRA IC Ep:</b>	<b>FF Brac In:</b>
<b>RCRA IC Gc:</b>	<b>BF RLF Ind:</b>
<b>RCRA IC ID:</b>	<b>BF Assess1:</b>
<b>RCRA IC Pr:</b>	<b>BF Multipu:</b>
<b>FF RCRA In:</b>	<b>BF Awp Ind:</b>
<b>RCRA Trans:</b>	<b>BF Showcas:</b>
<b>RCRA Tra 1:</b>	<b>BF 128a P :</b>
<b>RCRA Ec Co:</b>	<b>LUST Relea:</b>
<b>RCRA IC Co:</b>	<b>LUST Award:</b>
<b>RCRA Gpra :</b>	<b>LUST State:</b>
<b>RCRA Rem 2:</b>	<b>Congressio:</b> OH-11
<b>RCRA Dru 1:</b>	<b>FD Agency :</b>

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
SF Site ID:					FD Listing:	
SF Ec Ind:					FD Non NPL:	
SF EI Gm C:					FD RCRA Ha:	
SF EI He C:					FD RCRA Ca:	
SF IC Ind:					FD SF NPL :	
SF NPL Cod:					FD FF Ind:	
SF NPL C 1:					FD Ej Code:	
SF Admin F:					FD Brac In:	
FF And Sit:					FD Federal:	
FF SF Ind:					FD Hrs Sco:	
Map Symbol:	B				FD Ongoing:	
Data Refre:	29-Jul-2022				FD NPL Sta:	
GIS Refres:					FD Non N 1:	
New Site:					FD RCRA Gw:	
Repow Ref :			<a href="https://cimc.epa.gov/ords/cimc/f?p=CIMC:REPOWER::::P33_REF:27970">https://cimc.epa.gov/ords/cimc/f?p=CIMC:REPOWER::::P33_REF:27970</a>		FD RCRA He:	
EPAOSC Sit:					FD GMS Sur:	
EPAOSC Res:					FD Hes Sur:	
EPAOSC R 1:					FD SF Site:	
EPAOSC Sta:					FD Brac Ro:	
EPAOSC Inc:					Stimulus S:	
Desc :					Stimulus B:	
Ind Name:						
Cat Name:		Black-Rocky				
Sub Name:		Black-Rocky				
Primary Name:		11209-11405 KINSMAN PROPERTY #2				
RCRA Drupa:						
Url:					<a href="https://obipublic11.epa.gov/analytics/saw.dll?PortalPages&amp;Action=Navigate&amp;col1=ACRES_GRANT_EXPORT.PROPERTY_ID&amp;val1=%2212637.0%22&amp;PortalPath=/shared/CIMC/_portal/CIMC&amp;Page=Profile+Page">https://obipublic11.epa.gov/analytics/saw.dll?PortalPages&amp;Action=Navigate&amp;col1=ACRES_GRANT_EXPORT.PROPERTY_ID&amp;val1=%2212637.0%22&amp;PortalPath=/shared/CIMC/_portal/CIMC&amp;Page=Profile+Page</a>	
Census Url:					<a href="https://ejsscreen.epa.gov/mapper/demogreportpdf.aspx?report=census2010sf1&amp;coords=-81.736969%2C41.474109999999996&amp;featype=point&amp;radius=1.0">https://ejsscreen.epa.gov/mapper/demogreportpdf.aspx?report=census2010sf1&amp;coords=-81.736969%2C41.474109999999996&amp;featype=point&amp;radius=1.0</a>	
ACS Url:					<a href="https://ejsscreen.epa.gov/mapper/demogreportpdf.aspx?report=acs2017&amp;coords=-81.736969%2C41.474109999999996&amp;featype=point&amp;radius=1.0">https://ejsscreen.epa.gov/mapper/demogreportpdf.aspx?report=acs2017&amp;coords=-81.736969%2C41.474109999999996&amp;featype=point&amp;radius=1.0</a>	
SF Site Na:					UST Status:	
SF Non Npl:					UST Substa:	
SF Non N 1:					UST Landus:	
SF Non N 3:					UST SPA Wa:	
ERR Lat Lo:					UST SPA Fa:	
REPOW BF:	SGW				UST WHPA W:	
REPOW SF:					UST WHPA F:	
REPOW RCRA:					UST Open:	
REPOW Ref1:	27970				UST Closed:	
RCRA Han 1:					LUST ID:	
RCRA Rau I:					Saa Site:	
BF Propert:		12637-				
REPOW Re 1:		<a href="https://cimc.epa.gov/ords/cimc/f?p=CIMC:REPOWER::::P33_REF:27970">RE-Powering Site Profile</a>				
BF Prope 1:		11209-11405 Kinsman Property #2				
SF Non N 2:						

**Cleanups In My Community (CIMC)**

Grant ID:	48550283	ASMT Cntrl Sub :
Grant Type:	Assessment	Cleanup Cntrl Sub :
EPA Region:	05	ASMT Asbestos :
Ownership Entity:		Cleanup Asbestos :
Latitude Measure:	41.47411	ASMT PcbS :
Longitude Measure:	-81.736969	Cleanup PcbS :
Flag Cleanup Reqd:		ASMT Vocs :
Flag IC Required:		Cleanup Vocs :
Stcntrbg:		ASMT Lead :
Property Size:		Cleanup Lead :
Flag IC in Place:	U	ASMT Oth Metal :
IC in Place Date:		Cleanup Oth Metal :
Prop Cntrl :		ASMT Pahs :
Gov Cntrl :		Cleanup Pahs :
Permit Tools :		ASMT Oth Cont:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Info Dev/Ces :</b>					<b>Cleanup Oth Cont:</b>	
<b>Prop Fnding Type Cd:</b>					<b>ASMT Air :</b>	
<b>Ownshp Changed :</b>					<b>Cleanup Air :</b>	
<b>Sflp Factor :</b>					<b>ASMT Drk Wat:</b>	
<b>Source Mapscale No:</b>					<b>Cleanup Drk Wat:</b>	
<b>Past Cml Acres:</b>					<b>ASMT Grd Water:</b>	
<b>Future Cml Acres:</b>					<b>Cleanup Grd Water:</b>	
<b>Past Grnspc Acres:</b>					<b>ASMT Sediments :</b>	
<b>Future Grnspc Acres:</b>					<b>Cleanup Sediments :</b>	
<b>Past Acres:</b>					<b>ASMT Soil :</b>	
<b>Future Acres:</b>					<b>Cleanup Soil :</b>	
<b>Past Res Acres:</b>					<b>ASMT Srf Water :</b>	
<b>Future Res Acres:</b>					<b>Cleanup Srf Water :</b>	
<b>St Enrollment Dt:</b>					<b>Other Media :</b>	
<b>St Enrollment ID:</b>					<b>Unknown Media :</b>	
<b>St NFA Dt:</b>					<b>Ready For Reuse :</b>	N
<b>Assess Petrol Prod :</b>					<b>Assess Amount:</b>	
<b>Cleanup Petrol Prod :</b>					<b>Assess Fnd Ent Nm:</b>	
<b>Assess Start Dt:</b>	06/30/2002				<b>Photo Available :</b>	
<b>Assess Cmpltn Dt:</b>	06/30/2002				<b>Video Available :</b>	
<b>Cleanup Start Dt:</b>					<b>Cleanup Acres:</b>	
<b>Cleanup Cmpltn Dt:</b>					<b>Cleanup Amount:</b>	
<b>Redev Start Dt:</b>					<b>Redev Acres:</b>	
<b>Redev Cleanup Jobs:</b>					<b>Redev Amount:</b>	
<b>Grant Recipient Nm:</b>		Cleveland, City of				
<b>PropertyNm:</b>		11209-11405 Kinsman Property #2				
<b>Address:</b>		7500 Elton Ct				
<b>City:</b>		Cleveland				
<b>State Code:</b>		OH				
<b>Zip Code:</b>		44102				
<b>Local Parcel No:</b>						
<b>Current Owner:</b>						
<b>IC Data Address:</b>						
<b>Horizontal Collection Method:</b>						
<b>Reference Point:</b>						
<b>Horizontal Reference Datum:</b>						
<b>Other Description:</b>						
<b>Other Desc Cleaned Up:</b>						
<b>Assess Type:</b>		Phase I Environmental Assessment				
<b>Assess Fund Entity:</b>						
<b>Cleanup Funding EntityNm:</b>						
<b>Cleanup Fund Entity:</b>						
<b>Redev Funding Entity Nm:</b>						
<b>Desc Hist:</b>						
<b>Accmplisht Cnt Flag:</b>	N				<b>Vacant Housing:</b>	809
<b>Coop Agreement No:</b>	98594901				<b>Vacant Housing Pct:</b>	26.12
<b>Past Mltistry Acres:</b>					<b>Total Unemployed:</b>	650
<b>Ftr Multistory Acres:</b>					<b>Unemployed Pct:</b>	10.76
<b>Assess Cadmium :</b>					<b>Radius:</b>	.5
<b>Clnup Cadmium :</b>					<b>Actvy Funded:</b>	
<b>Assess Chromium :</b>					<b>Redev Lvrgd Srcs:</b>	
<b>Clnup Chromium :</b>					<b>AA Amt Funding:</b>	
<b>Assess Copper :</b>					<b>Flag Clnup Trmt Tech:</b>	
<b>Clnup Copper :</b>					<b>Excavation Disposal:</b>	
<b>Assess Iron :</b>					<b>Extrctn of Cntmnts:</b>	
<b>Clnup Iron :</b>					<b>Removal of Mats:</b>	
<b>Assess Nickel :</b>					<b>Rdctn of Cntmnts:</b>	
<b>Clnup Nickel :</b>					<b>Clnup of Structures:</b>	
<b>Assess Selenium :</b>					<b>Env EC Required:</b>	
<b>Clnup Selenium :</b>					<b>Flag EC Cover Tech:</b>	
<b>Assess Mercury :</b>					<b>Flag EC Security:</b>	
<b>Clnup Mercury :</b>					<b>Flag EC Immblyztn:</b>	
<b>Assess ArsenIC :</b>					<b>Flag EC Eng Barriers:</b>	
<b>Clnup ArsenIC :</b>					<b>Flag EC Other:</b>	
<b>Assess Bldg Mats :</b>					<b>Env IC in Place:</b>	U
<b>Clnup Bldg Mats :</b>					<b>Env EC in Place:</b>	
<b>Assess oorair :</b>					<b>Env Clnup Jobs:</b>	
<b>Clnup oorair :</b>					<b>Sect 128 A State Trbl:</b>	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Assess None :					Multipurpose:	
Clnup None :					Clnup Cst Shr Amt:	
Assess Pesticides :					RLF Loan Amount:	
Clnup Pesticides :					RLF Ln Cst Shr Amt:	
Assess Unknown :					Pro Income Amt:	
Clnup Unknown :					Dt RLF Loan Signed:	
Assess Svocs :					Repayment Period:	
Clnup Svocs :					Interest Rate:	
Clnup Unkn Media :					RLF Subgrant Amt:	
Redev Cmpltn Date:					Cost Share Amt:	
Pro Code:	BP				Env Pro Income Amt:	
FCA Fy:					Dt RLF Sbrgrnt Signd:	
Flag EC in Place:					Clnup Actvy Funded:	
Flag EC Required:					Below Poverty:	2470
RFR Notation:					Below Poverty Pct:	40.87
Gpa Type ID:	1				Median Income:	6789
Clnup Doc:	N				Low Income:	4068
Awp Catalyst Yn:					Low Income Pct:	67.32
Flag Prop Not Enrld:						
Redev Fund Entity:						
Gpa Type Desc:		Phase I Environmental Assessment				
AA Actvy Funded:						
AA Source of Funding:						
Clnup Trmt Tech Info:						
EC Data Address:						
EC Addl Info:						
Env IC Data Address:						
Other Forms of Doc:						
IC Addl Info:						
Highlights:						
Property Alias:						
Ctmnt Found:						
Ctmnt Cleanedup:						
Ctmnt Rec:						
Media Affected:						

[49](#) 4 of 4 NNW 0.49 / 2,594.03 697.04 / -2 8001-8205 Franklin Blvd. 7500 Elton Ct Cleveland OH 44102

FED BROWNFIELDS

Property ID:	12638	BF Property (Map):	12638
Lat Measure:	41.47411	Latitude (Map):	41.47411
Long Measure:	-81.736969	Longitude (Map):	-81.736969
Property Name:	8001-8205 Franklin Blvd.		
Address:	7500 Elton Ct		
City:	Cleveland		
State Code:	OH		
Zip Code:	44102		
Primary Name (Map):	8001-8205 FRANKLIN BLVD.		
Location Address (Map):	7500 ELTON CT		
City Name (Map):	CLEVELAND		
County Name (Map):	CUYAHOGA		
State Code (Map):	OH		
Postal Code (Map):	44102		

**Brownfields Details**

Registry I:	110039545613	EPA ID:	
EPA Region:	05	BF RLF Gra:	
Cat No:	04110001	BF RLF Pil:	
RCRA Handl:		BF Assess :	Y
RCRA Curre:		BF Cleanup:	
RCRA Remed:		BF Tba Ind:	
RCRA Const:		BF 128a In:	
RCRA EI He:		BF IC Code:	U

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RCRA EI Gm:					BF IC Gc I:	U
RCRA Rem 1:					BF IC Ep I:	U
RCRA Ec Gw:					BF IC ID I:	U
RCRA Ec Ng:					BF IC Pr I:	U
RCRA IC Ep:					FF Brac In:	
RCRA IC Gc:					BF RLF Ind:	
RCRA IC ID:					BF Assess1:	
RCRA IC Pr:					BF Multipu:	
FF RCRA In:					BF Awp Ind:	
RCRA Trans:					BF Showcas:	
RCRA Tra 1:					BF 128a P :	
RCRA Ec Co:					LUST Relea:	
RCRA IC Co:					LUST Award:	
RCRA Gpra :					LUST State:	
RCRA Rem 2:					Congressio:	OH-11
RCRA Dru 1:					FD Agency :	
SF Site ID:					FD Listing:	
SF Ec Ind:					FD Non NPL:	
SF EI Gm C:					FD RCRA Ha:	
SF EI He C:					FD RCRA Ca:	
SF IC Ind:					FD SF NPL :	
SF NPL Cod:					FD FF Ind:	
SF NPL C 1:					FD Ej Code:	
SF Admin F:					FD Brac In:	
FF And Sit:					FD Federal:	
FF SF Ind:					FD Hrs Sco:	
Map Symbol:	B				FD Ongoing:	
Data Refre:	29-Jul-2022				FD NPL Sta:	
GIS Refres:					FD Non N 1:	
New Site:					FD RCRA Gw:	
Repow Ref :			<a href="https://cimc.epa.gov/ords/cimc/f?p=CIMC:REPOWER::::P33_REF:27971">https://cimc.epa.gov/ords/cimc/f?p=CIMC:REPOWER::::P33_REF:27971</a>		FD RCRA He:	
EPAOSC Sit:					FD GMS Sur:	
EPAOSC Res:					FD Hes Sur:	
EPAOSC R 1:					FD SF Site:	
EPAOSC Sta:					FD Brac Ro:	
EPAOSC Inc:					Stimulus S:	
Desc :					Stimulus B:	
Ind Name:						
Cat Name:		Black-Rocky				
Sub Name:		Black-Rocky				
Primary Name:		8001-8205 FRANKLIN BLVD.				
RCRA Drupa:						
Url:					<a href="https://obipublic11.epa.gov/analytics/saw.dll?PortalPages&amp;Action=Navigate&amp;col1=ACRES_GRANT_EXPORT.PROPERTY_ID&amp;val1=%2212638.0%22&amp;PortalPath=/shared/CIMC/_portal/CIMC&amp;Page=Profile+Page4741099999999996&amp;featype=point&amp;radius=1.0">https://obipublic11.epa.gov/analytics/saw.dll?PortalPages&amp;Action=Navigate&amp;col1=ACRES_GRANT_EXPORT.PROPERTY_ID&amp;val1=%2212638.0%22&amp;PortalPath=/shared/CIMC/_portal/CIMC&amp;Page=Profile+Page4741099999999996&amp;featype=point&amp;radius=1.0</a>	
Census Url:					<a href="https://ejscreen.epa.gov/mapper/demogreportpdf.aspx?report=census2010sf1&amp;coords=-81.736969%2C41.4741099999999996&amp;featype=point&amp;radius=1.0">https://ejscreen.epa.gov/mapper/demogreportpdf.aspx?report=census2010sf1&amp;coords=-81.736969%2C41.4741099999999996&amp;featype=point&amp;radius=1.0</a>	
ACS Url:					<a href="https://ejscreen.epa.gov/mapper/demogreportpdf.aspx?report=acs2017&amp;coords=-81.736969%2C41.4741099999999996&amp;featype=point&amp;radius=1.0">https://ejscreen.epa.gov/mapper/demogreportpdf.aspx?report=acs2017&amp;coords=-81.736969%2C41.4741099999999996&amp;featype=point&amp;radius=1.0</a>	
SF Site Na:					UST Status:	
SF Non Npl:					UST Substa:	
SF Non N 1:					UST Landus:	
SF Non N 3:					UST SPA Wa:	
ERR Lat Lo:					UST SPA Fa:	
REPOW BF:	SGW				UST WHPA W:	
REPOW SF:					UST WHPA F:	
REPOW RCRA:					UST Open:	
REPOW Ref1:	27971				UST Closed:	
RCRA Han 1:					LUST ID:	
RCRA Rau I:					Saa Site:	
BF Propert:		12638-				
REPOW Re 1:		<a target="_blank" href="https://cimc.epa.gov/ords/cimc/f?p=CIMC:REPOWER::::P33_REF:27971">RE-Powering Site Profile</a>				
BF Prope 1:		8001-8205 Franklin Blvd.				
SF Non N 2:						

**Cleanups In My Community (CIMC)**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Grant ID:</b>	48550283				<b>ASMT Cntrl Sub :</b>	
<b>Grant Type:</b>	Assessment				<b>Cleanup Cntrl Sub :</b>	
<b>EPA Region:</b>	05				<b>ASMT Asbestos :</b>	
<b>Ownership Entity:</b>					<b>Cleanup Asbestos :</b>	
<b>Latitude Measure:</b>	41.47411				<b>ASMT PcbS :</b>	
<b>Longitude Measure:</b>	-81.736969				<b>Cleanup PcbS :</b>	
<b>Flag Cleanup Reqd:</b>					<b>ASMT VocS :</b>	
<b>Flag IC Required:</b>					<b>Cleanup VocS :</b>	
<b>Stcntrbg:</b>					<b>ASMT Lead :</b>	
<b>Property Size:</b>	1.5				<b>Cleanup Lead :</b>	
<b>Flag IC in Place:</b>	U				<b>ASMT Oth Metal :</b>	
<b>IC in Place Date:</b>					<b>Cleanup Oth Metal :</b>	
<b>Prop Cntrl :</b>					<b>ASMT PahS :</b>	
<b>Gov Cntrl :</b>					<b>Cleanup PahS :</b>	
<b>Permit Tools :</b>					<b>ASMT Oth Cont:</b>	
<b>Info DevICes :</b>					<b>Cleanup Oth Cont:</b>	
<b>Prop Fndng Type Cd:</b>					<b>ASMT Air :</b>	
<b>Ownshp Changed :</b>					<b>Cleanup Air :</b>	
<b>Sflp Factor :</b>					<b>ASMT Drk Wat:</b>	
<b>Source Mapscale No:</b>					<b>Cleanup Drk Wat:</b>	
<b>Past Cml Acres:</b>					<b>ASMT Grd Water:</b>	
<b>Future Cml Acres:</b>					<b>Cleanup Grd Water:</b>	
<b>Past Grnspc Acres:</b>					<b>ASMT Sediments :</b>	
<b>Future Grnspc Acres:</b>					<b>Cleanup Sediments :</b>	
<b>Past Acres:</b>					<b>ASMT Soil :</b>	
<b>Future Acres:</b>					<b>Cleanup Soil :</b>	
<b>Past Res Acres:</b>					<b>ASMT Srf Water :</b>	
<b>Future Res Acres:</b>					<b>Cleanup Srf Water :</b>	
<b>St Enrollment Dt:</b>					<b>Other Media :</b>	
<b>St Enrollment ID:</b>					<b>Unknown Media :</b>	
<b>St NFA Dt:</b>					<b>Ready For Reuse :</b>	N
<b>Assess Petrol Prod :</b>					<b>Assess Amount:</b>	
<b>Cleanup Petrol Prod :</b>					<b>Assess Fnd Ent Nm:</b>	
<b>Assess Start Dt:</b>	03/31/2002				<b>Photo Available :</b>	
<b>Assess Cmpltn Dt:</b>	03/31/2002				<b>Video Available :</b>	
<b>Cleanup Start Dt:</b>					<b>Cleanup Acres:</b>	
<b>Cleanup Cmpltn Dt:</b>					<b>Cleanup Amount:</b>	
<b>Redev Start Dt:</b>					<b>Redev Acres:</b>	
<b>Redev Cleanup Jobs:</b>					<b>Redev Amount:</b>	
<b>Grant Recipient Nm:</b>		Cleveland, City of				
<b>PropertyNm:</b>		8001-8205 Franklin Blvd.				
<b>Address:</b>		7500 Elton Ct				
<b>City:</b>		Cleveland				
<b>State Code:</b>		OH				
<b>Zip Code:</b>		44102				
<b>Local Parcel No:</b>						
<b>Current Owner:</b>						
<b>IC Data Address:</b>						
<b>Horizontal Collection Method:</b>						
<b>Reference Point:</b>						
<b>Horizontal Reference Datum:</b>						
<b>Other Description:</b>						
<b>Other Desc Cleaned Up:</b>						
<b>Assess Type:</b>		Phase I Environmental Assessment				
<b>Assess Fund Entity:</b>						
<b>Cleanup Funding EntityNm:</b>						
<b>Cleanup Fund Entity:</b>						
<b>Redev Funding Entity Nm:</b>						
<b>Desc Hist:</b>						
<b>Accmplisht Cnt Flag:</b>	N				<b>Vacant Housing:</b>	809
<b>Coop Agreement No:</b>	98594901				<b>Vacant Housing Pct:</b>	26.12
<b>Past Mltistry Acres:</b>					<b>Total Unemployed:</b>	650
<b>Ftr Multistory Acres:</b>					<b>Unemployed Pct:</b>	10.76
<b>Assess Cadmium :</b>					<b>Radius:</b>	.5
<b>Clnup Cadmium :</b>					<b>Actvy Funded:</b>	
<b>Assess Chromium :</b>					<b>Redev Lvrgd Srcs:</b>	
<b>Clnup Chromium :</b>					<b>AA Amt Funding:</b>	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Assess Copper :					Flag Clnup Trmt Tech:	
Clnup Copper :					Excavation Disposal:	
Assess Iron :					Extrctn of Cntmnts:	
Clnup Iron :					Removal of Mats:	
Assess Nickel :					Rdctn of Cntmnts:	
Clnup Nickel :					Clnup of Structures:	
Assess Selenium :					Env EC Required:	
Clnup Selenium :					Flag EC Cover Tech:	
Assess Mercury :					Flag EC Security:	
Clnup Mercury :					Flag EC Immblyztn:	
Assess ArsenIC :					Flag EC Eng Barriers:	
Clnup ArsenIC :					Flag EC Other:	
Assess Bldg Mats :					Env IC in Place:	U
Clnup Bldg Mats :					Env EC in Place:	
Assess oorair :					Env Clnup Jobs:	
Clnup oorair :					Sect 128 A State Trbl:	
Assess None :					Multipurpose:	
Clnup None :					Clnup Cst Shr Amt:	
Assess Pesticides :					RLF Loan Amount:	
Clnup Pesticides :					RLF Ln Cst Shr Amt:	
Assess Unknown :					Pro Income Amt:	
Clnup Unknown :					Dt RLF Loan Signed:	
Assess Svocs :					Repayment Period:	
Clnup Svocs :					Interest Rate:	
Clnup Unkn Media :					RLF Subgrant Amt:	
Redev Cmpltn Date:					Cost Share Amt:	
Pro Code:	BP				Env Pro Income Amt:	
FCA Fy:					Dt RLF Sbrgrnt Signd:	
Flag EC in Place:					Clnup Actvy Funded:	
Flag EC Required:					Below Poverty:	2470
RFR Notation:					Below Poverty Pct:	40.87
Gpa Type ID:	1				Median Income:	6789
Clnup Doc:	N				Low Income:	4068
Awp Catalyst Yn:					Low Income Pct:	67.32
Flag Prop Not Enrld:						
Redev Fund Entity:						
Gpa Type Desc:		Phase I Environmental Assessment				
AA Actvy Funded:						
AA Source of Funding:						
Clnup Trmt Tech Info:						
EC Data Address:						
EC Addl Info:						
Env IC Data Address:						
Other Forms of Doc:						
IC Addl Info:						
Highlights:						
Property Alias:						
Ctmnt Found:						
Ctmnt Cleanedup:						
Ctmnt Rec:						
Media Affected:						

<a href="#">50</a>	1 of 3	N	0.49 / 2,597.09	697.99 / -2	OHIO & WEST PENN DOCK CO W 58TH ST CLEVELAND OH 44102	DELISTED LST
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**Delisted Regulated and Non-Regulated Leaking Underground Storage Tanks (LUST)**

<b>Incident No:</b>	18900500.0	<b>Class:</b>	D
<b>Release No:</b>	18010524 - N00001	<b>Class Desc:</b>	A viable RP has been identified
<b>Status:</b>	RPT: a possible incident is reported	<b>Rules:</b>	1992
<b>Sub Status:</b>	Approved	<b>Coordinator:</b>	Charles Zepp
<b>Release Date:</b>	1/4/1989	<b>County:</b>	Cuyahoga
<b>LTF:</b>	3 SUS/CON from AST	<b>Facility Latitude:</b>	41.4741

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Last Update:</b>	Charles Zepp				<b>Facility Longitude:</b>	-81.7358
<b>Last Update Date:</b>	1/16/2019				<b>Original Source:</b>	NLUT
<b>Last Status Update:</b>	1/22/1990				<b>Record Date:</b>	09-OCT-2019
<b>Priority:</b>						

<a href="#">50</a>	2 of 3	N	0.49 / 2,597.09	697.99 / -2	OHIO & WEST PENN DOCK CO W 58TH ST CLEVELAND OH 44102	DELISTED LST
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**Delisted Regulated and Non-Regulated Leaking Underground Storage Tanks (LUST)**

<b>Incident No:</b>		<b>Class:</b>	D
<b>Release No:</b>	18010524 - N00003	<b>Class Desc:</b>	A viable RP has been identified
<b>Status:</b>	RPT: a possible incident is reported	<b>Rules:</b>	1992
<b>Sub Status:</b>	Approved	<b>Coordinator:</b>	Charles Zepp
<b>Release Date:</b>	6/14/1993	<b>County:</b>	Cuyahoga
<b>LTF:</b>	2 SUS/CON from non-regulated UST	<b>Facility Latitude:</b>	41.4741
<b>Last Update:</b>	Charles Zepp	<b>Facility Longitude:</b>	-81.7358
<b>Last Update Date:</b>	1/16/2019	<b>Original Source:</b>	NLUT
<b>Last Status Update:</b>	6/14/1993	<b>Record Date:</b>	09-OCT-2019
<b>Priority:</b>			

<a href="#">50</a>	3 of 3	N	0.49 / 2,597.09	697.99 / -2	OHIO & WEST PENN DOCK CO W 58TH ST CLEVELAND OH 44102	DELISTED LST
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**Delisted Regulated and Non-Regulated Leaking Underground Storage Tanks (LUST)**

<b>Incident No:</b>		<b>Class:</b>	D
<b>Release No:</b>	18010524 - N00002	<b>Class Desc:</b>	A viable RP has been identified
<b>Status:</b>	RPT: a possible incident is reported	<b>Rules:</b>	1992
<b>Sub Status:</b>	Approved	<b>Coordinator:</b>	Charles Zepp
<b>Release Date:</b>	5/4/1992	<b>County:</b>	Cuyahoga
<b>LTF:</b>	3 SUS/CON from AST	<b>Facility Latitude:</b>	41.4741
<b>Last Update:</b>	Charles Zepp	<b>Facility Longitude:</b>	-81.7358
<b>Last Update Date:</b>	1/16/2019	<b>Original Source:</b>	NLUT
<b>Last Status Update:</b>	1/16/2019	<b>Record Date:</b>	09-OCT-2019
<b>Priority:</b>			

<a href="#">51</a>	1 of 1	W	0.73 / 3,852.49	708.18 / 9	Emeral Alliance VII, Cleveland 9431 Lorain Ave & 3147 W 95th St Cleveland OH 44114-	DERR
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<b>DERR ID:</b>	218002849	<b>County:</b>	Cuyahoga
<b>CERCLIS ID:</b>		<b>District:</b>	NEDO
<b>Program:</b>	COF, VAP	<b>Latitude:</b>	
<b>Program Desc:</b>	Clean Ohio Fund, Voluntary Action Program	<b>Longitude:</b>	
<b>Address (REST):</b>	9431 Lorain Ave & 3147 W 95th St	<b>Cerclis IID (REST):</b>	
<b>City (REST):</b>	Cleveland	<b>OepaDstrct (REST):</b>	NEDO
<b>Zip (REST):</b>	44114-	<b>Activity (REST):</b>	COF, VAP
<b>County (REST):</b>	Cuyahoga	<b>DERR ID (REST):</b>	218002849
<b>LatDd Begin (REST):</b>	41.467963; 41.467963; 41.467963; 41.468427; 41.468427	<b>LonDd Begin (REST):</b>	-81.748839; -81.748839; -81.748839; -81.748804; -81.748804
<b>Source:</b>	Ohio EPA: DERR Database; REST Services Directory: DERR Database (OEPA-DERR)		
<b>Name (REST):</b>	Emeral Alliance VII, Cleveland		

**Ohio EPA: DERR Database**

**Alias:** Ohio Freight Sales, Cleveland

**Alias:** Lang Furniture, Cleveland

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Alias:		Lang Funeral Home, Cleveland				
Alias:		Masonic Temple, Cleveland				
<b>REST Services Directory: DERR Database (OEPA-DERR)</b>						
<b>Cerclis ID:</b>					<b>Address:</b>	9431 Lorain Ave & 3147 W 95th St
<b>Alias:</b>	Lang Funeral Home, Cleveland				<b>City:</b>	Cleveland
<b>Activity:</b>	COF, VAP				<b>Zip:</b>	44114-
<b>ODoT District:</b>	12				<b>Latitude DD Begin:</b>	41.468427
<b>OEPA District:</b>	NEDO				<b>Longitude DD Begin:</b>	-81.748804
<b>County:</b>	Cuyahoga					
<b>Name:</b>	Emeral Alliance VII, Cleveland					
<b>Cerclis ID:</b>					<b>Address:</b>	9431 Lorain Ave & 3147 W 95th St
<b>Alias:</b>	Lang Furniture, Cleveland				<b>City:</b>	Cleveland
<b>Activity:</b>	COF, VAP				<b>Zip:</b>	44114-
<b>ODoT District:</b>	12				<b>Latitude DD Begin:</b>	41.467963
<b>OEPA District:</b>	NEDO				<b>Longitude DD Begin:</b>	-81.748839
<b>County:</b>	Cuyahoga					
<b>Name:</b>	Emeral Alliance VII, Cleveland					
<b>Cerclis ID:</b>					<b>Address:</b>	9431 Lorain Ave & 3147 W 95th St
<b>Alias:</b>					<b>City:</b>	Cleveland
<b>Activity:</b>	COF, VAP				<b>Zip:</b>	44114-
<b>ODoT District:</b>	12				<b>Latitude DD Begin:</b>	41.467963
<b>OEPA District:</b>	NEDO				<b>Longitude DD Begin:</b>	-81.748839
<b>County:</b>	Cuyahoga					
<b>Name:</b>	Emeral Alliance VII, Cleveland					
<b>Cerclis ID:</b>					<b>Address:</b>	9431 Lorain Ave & 3147 W 95th St
<b>Alias:</b>	Ohio Freight Sales, Cleveland				<b>City:</b>	Cleveland
<b>Activity:</b>	COF, VAP				<b>Zip:</b>	44114-
<b>ODoT District:</b>	12				<b>Latitude DD Begin:</b>	41.467963
<b>OEPA District:</b>	NEDO				<b>Longitude DD Begin:</b>	-81.748839
<b>County:</b>	Cuyahoga					
<b>Name:</b>	Emeral Alliance VII, Cleveland					
<b>Cerclis ID:</b>					<b>Address:</b>	9431 Lorain Ave & 3147 W 95th St
<b>Alias:</b>	Masonic Temple, Cleveland				<b>City:</b>	Cleveland
<b>Activity:</b>	COF, VAP				<b>Zip:</b>	44114-
<b>ODoT District:</b>	12				<b>Latitude DD Begin:</b>	41.468427
<b>OEPA District:</b>	NEDO				<b>Longitude DD Begin:</b>	-81.748804
<b>County:</b>	Cuyahoga					
<b>Name:</b>	Emeral Alliance VII, Cleveland					

[52](#)

1 of 1

NE

0.77 /  
4,077.63688.63 /  
-11Midnight Dump 58th St, Cleveland  
W 58th St  
Cleveland OH 44102

DERR

<b>DERR ID:</b>	218000005	<b>County:</b>	Cuyahoga
<b>CERCLIS ID:</b>	OHD986967883	<b>District:</b>	NEDO
<b>Program:</b>	SA, RR	<b>Latitude:</b>	41.476222
<b>Program Desc:</b>	Site Assessment, Remedial Response	<b>Longitude:</b>	-81.725358
<b>Address (REST):</b>	W 58th St	<b>Cerclis IID (REST):</b>	OHD986967883
<b>City (REST):</b>	Cleveland	<b>OepaDstrct (REST):</b>	NEDO
<b>Zip (REST):</b>	44102	<b>Activity (REST):</b>	SA, RR
<b>County (REST):</b>	Cuyahoga	<b>DERR ID (REST):</b>	218000005
<b>LatDd Begin (REST):</b>	41.476222	<b>LonDd Begin (REST):</b>	-81.725358
<b>Source:</b>	Ohio EPA: DERR Database; REST Services Directory: DERR Database (OEPA-DERR)		
<b>Name (REST):</b>	Midnight Dump 58th St, Cleveland		

**REST Services Directory: DERR Database (OEPA-DERR)**

<b>Cerclis ID:</b>	OHD986967883	<b>Address:</b>	W 58th St
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Alias:</b>				<b>City:</b>	Cleveland	
<b>Activity:</b>		SA, RR			<b>Zip:</b>	44102
<b>ODoT District:</b>		12			<b>Latitude DD Begin:</b>	41.476222
<b>OEPA District:</b>		NEDO			<b>Longitude DD Begin:</b>	-81.725358
<b>County:</b>		Cuyahoga				
<b>Name:</b>		Midnight Dump 58th St, Cleveland				

[53](#) 1 of 1 **ENE** **0.80 / 4,198.82** **669.86 / -30** **Joseph & Feiss/Hugo Boss Property, Cleveland 2149 W 53rd St Cleveland OH 44120-** **DERR**

**DERR ID:** 218003223 **County:** Cuyahoga  
**CERCLIS ID:** **District:** NEDO  
**Program:** SA, VAP **Latitude:**  
**Program Desc:** Site Assessment, Voluntary Action Program **Longitude:**  
**Address (REST):** 2149 W 53rd St **Cerclis iID (REST):**  
**City (REST):** Cleveland **OepaDstrct (REST):** NEDO  
**Zip (REST):** 44120- **Activity (REST):** VAP  
**County (REST):** Cuyahoga **DERR ID (REST):** 218003223  
**LatDd Begin (REST):** 41.4733543; 41.4733543 **LonDd Begin (REST):** -81.7219772; -81.7219772  
**Source:** Ohio EPA: DERR Database; REST Services Directory: DERR Database (OEPA-DERR)  
**Name (REST):** Joseph & Feiss/Hugo Boss Property, Cleveland

**Ohio EPA: DERR Database**

**Alias:** Joseph & Feiss/Hugo Boss Property, Cleveland

**REST Services Directory: DERR Database (OEPA-DERR)**

**Cerclis ID:** **Address:** 2149 W 53rd St  
**Alias:** **City:** Cleveland  
**Activity:** VAP **Zip:** 44120-  
**ODoT District:** 12 **Latitude DD Begin:** 41.4733543  
**OEPA District:** NEDO **Longitude DD Begin:** -81.7219772  
**County:** Cuyahoga  
**Name:** Joseph & Feiss/Hugo Boss Property, Cleveland

**Cerclis ID:** **Address:** 2149 W 53rd St  
**Alias:** Joseph & Feiss/Hugo Boss Property, Cleveland **City:** Cleveland  
**Activity:** VAP **Zip:** 44120-  
**ODoT District:** 12 **Latitude DD Begin:** 41.4733543  
**OEPA District:** NEDO **Longitude DD Begin:** -81.7219772  
**County:** Cuyahoga  
**Name:** Joseph & Feiss/Hugo Boss Property, Cleveland

[54](#) 1 of 1 **WSW** **0.80 / 4,248.66** **737.94 / 38** **FOREST CITY JOINT VENTURE 9401 MAYWOOD AVE CLEVELAND OH 44102** **RCRA CORRACTS**

**EPA Handler ID:** OHD982646010  
**Gen Status Universe:** No Report  
**Contact Name:** JOHN JOSEPH  
**Contact Address:** PO BOX 35521 , , CLEVELAND , OH, 44135 , US  
**Contact Phone No and Ext:** 216-961-4111  
**Contact Email:**  
**Contact Country:** US  
**County Name:** CUYAHOGA  
**EPA Region:** 05  
**Land Type:**  
**Receive Date:** 19880627  
**Location Latitude:** 41.458416  
**Location Longitude:** -81.747399

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Event/Area Details**

**Area Name:** ENTIRE FACILITY  
**Event Code:** CA001  
**Corrective Action Event Descri:** ADDITIONAL INFORMATION NECESSARY [CATEGORY B] - INITIAL LOAD  
**Actual Date of Event:** 20060701  
**Orig Sched Event Date:**  
**New Sched Event Date:**  
**Best Date:** 20060701  
**Groundwater Release Indicator:**  
**Soil Release Indicator:**  
**Air Release Indicator:**  
**Surface Waste Release Ind:**  
**Event Responsible Agency:** S

**Violation/Evaluation Summary**

**Note:** VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated Sep, 2022.

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-66-43  
**Violation Short Description:** TSD - Financial Requirements  
**Violation Type:** 264.H  
**Violation Determined Date:** 19970529  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20000629  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19970529  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19990210  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-66-47  
**Violation Short Description:** TSD - Financial Requirements  
**Violation Type:** 264.H  
**Violation Determined Date:** 19970529  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Actual Return to Compl: 20000629  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 19990210  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 19970529  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation: SR - 3745-66-42  
 Violation Short Description: TSD - Financial Requirements  
 Violation Type: 264.H  
 Violation Determined Date: 19970529  
 Scheduled Compliance Date:  
 Return to Compliance: Documented  
 Actual Return to Compl: 20000629  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 19970529  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 19990210  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation: SR - 3745-66-13 (B)  
 Violation Short Description: TSD - Closure/Post-Closure

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Violation Type:</b>		264.G				
<b>Violation Determined Date:</b>		19930719				
<b>Scheduled Compliance Date:</b>						
<b>Return to Compliance:</b>		Observed				
<b>Actual Return to Compl:</b>		19931221				
<b>Violation Responsible Agency:</b>		State				
<b><u>Enforcement Details</u></b>						
<b>Enforcement Type:</b>		120				
<b>Enforcement Type Description:</b>		WRITTEN INFORMAL				
<b>Enforcement Action Date:</b>		19931006				
<b>Enf Disposition Status:</b>						
<b>Disposition Status Date:</b>						
<b>Enforcement Lead Agency:</b>		State				
<b>Proposed Penalty Amount:</b>						
<b>Final Amount:</b>						
<b>Paid Amount:</b>						
<b>Enforcement Type:</b>		120				
<b>Enforcement Type Description:</b>		WRITTEN INFORMAL				
<b>Enforcement Action Date:</b>		19930730				
<b>Enf Disposition Status:</b>						
<b>Disposition Status Date:</b>						
<b>Enforcement Lead Agency:</b>		State				
<b>Proposed Penalty Amount:</b>						
<b>Final Amount:</b>						
<b>Paid Amount:</b>						
<b><u>Evaluation Details</u></b>						
<b>Evaluation Start Date:</b>		19970507				
<b>Evaluation Type Description:</b>		FOCUSED COMPLIANCE INSPECTION				
<b>Violation Short Description:</b>						
<b>Return to Compliance Date:</b>						
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		19970530				
<b>Evaluation Type Description:</b>		SIGNIFICANT NON-COMPLIER				
<b>Violation Short Description:</b>		TSD - Financial Requirements				
<b>Return to Compliance Date:</b>		20000629				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		19930719				
<b>Evaluation Type Description:</b>		NON-FINANCIAL RECORD REVIEW				
<b>Violation Short Description:</b>		TSD - Closure/Post-Closure				
<b>Return to Compliance Date:</b>		19931221				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20000629				
<b>Evaluation Type Description:</b>		NOT A SIGNIFICANT NON-COMPLIER				
<b>Violation Short Description:</b>						
<b>Return to Compliance Date:</b>						
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		19990210				
<b>Evaluation Type Description:</b>		FINANCIAL RECORD REVIEW				
<b>Violation Short Description:</b>		TSD - Financial Requirements				
<b>Return to Compliance Date:</b>		20000629				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		19970529				
<b>Evaluation Type Description:</b>		FINANCIAL RECORD REVIEW				
<b>Violation Short Description:</b>		TSD - Financial Requirements				
<b>Return to Compliance Date:</b>		20000629				
<b>Evaluation Agency:</b>		State				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Handler Summary**

**Importer Activity:** No  
**Mixed Waste Generator:** No  
**Transporter Activity:** No  
**Transfer Facility:** No  
**Onsite Burner:** No  
**Smelting, Melting and Refining:** No  
**Underground Injection Control:** No  
**Commercial TSD:** No  
**Used Oil Transporter:** No  
**Used Oil Transfer Facility:** No  
**Used Oil Processor:** No  
**Used Oil Refiner:** No  
**Used Oil Burner:** No  
**Used Oil Market Burner:** No  
**Used Oil Spec Marketer:** No

**Hazardous Waste Handler Details**

**Sequence No:** 1  
**Receive Date:** 19880627  
**Handler Name:** FOREST CITY JOINT VENTURE  
**Federal Waste Generator Code:** N  
**Generator Code Description:** Not a Generator, Verified  
**Source Type:** Notification

**Waste Code Details**

**Hazardous Waste Code:** F002  
**Waste Code Description:** THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

**Hazardous Waste Code:** F005  
**Waste Code Description:** THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

**Hazardous Waste Code:** F001  
**Waste Code Description:** THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

**Hazardous Waste Code:** F003  
**Waste Code Description:** THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

**Owner/Operator Details**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Owner/Operator Ind:</b>	Current Operator				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b>	ADDRESS NOT REPORTED
<b>Name:</b>	NAME NOT REPORTED				<b>Street 2:</b>	
<b>Date Became Current:</b>					<b>City:</b>	CITY NOT REPORTED
<b>Date Ended Current:</b>					<b>State:</b>	AK
<b>Phone:</b>	312-555-1212				<b>Country:</b>	
<b>Source Type:</b>	Notification				<b>Zip Code:</b>	99998
<b>Owner/Operator Ind:</b>	Current Owner				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b>	ADDRESS NOT REPORTED
<b>Name:</b>	DAVIS CO W E				<b>Street 2:</b>	
<b>Date Became Current:</b>					<b>City:</b>	CITY NOT REPORTED
<b>Date Ended Current:</b>					<b>State:</b>	AK
<b>Phone:</b>	312-555-1212				<b>Country:</b>	
<b>Source Type:</b>	Notification				<b>Zip Code:</b>	99998

[55](#) 1 of 1 **NE** **0.81 / 4,256.74** **685.67 / -14** **2003 W 58th St Abandoned Drums Vacant Lot, Cleveland 2003 W 58th St Cleveland OH 44102** **DERR**

**DERR ID:** 218001584 **County:** Cuyahoga  
**CERCLIS ID:** OHD980823892 **District:** NEDO  
**Program:** SA **Latitude:** 41.477025  
**Program Desc:** Site Assessment **Longitude:** -81.7258  
**Address (REST):** 2003 W 58th St **Cerclis IID (REST):** OHD980823892  
**City (REST):** Cleveland **OepaDstrct (REST):** NEDO  
**Zip (REST):** 44102 **Activity (REST):** SA  
**County (REST):** Cuyahoga **DERR ID (REST):** 218001584  
**LatDd Begin (REST):** 41.477025 **LonDd Begin (REST):** -81.7258  
**Source:** Ohio EPA: DERR Database; REST Services Directory: DERR Database (OEPA-DERR)  
**Name (REST):** 2003 W 58th St Abandoned Drums Vacant Lot, Cleveland

**REST Services Directory: DERR Database (OEPA-DERR)**

**Cerclis ID:** OHD980823892 **Address:** 2003 W 58th St  
**Alias:** **City:** Cleveland  
**Activity:** SA **Zip:** 44102  
**ODoT District:** 12 **Latitude DD Begin:** 41.477025  
**OEPA District:** NEDO **Longitude DD Begin:** -81.7258  
**County:** Cuyahoga  
**Name:** 2003 W 58th St Abandoned Drums Vacant Lot, Cleveland

[56](#) 1 of 2 **SE** **0.83 / 4,406.13** **716.62 / 17** **CONTAINER COMPLIANCE CORPORATION 5151 DENISON AVE CLEVELAND OH 44102** **RCRA CORRACTS**

**EPA Handler ID:** OHD060431947  
**Gen Status Universe:** Large Quantity Generator  
**Contact Name:** DAN MACKALL  
**Contact Address:** 5151 DENISON AVE , , CLEVELAND , OH, 44102 , US  
**Contact Phone No and Ext:** 216-961-0035  
**Contact Email:** DMACKALL@CONTAINERCOMPLIANCE.COM  
**Contact Country:** US  
**County Name:** CUYAHOGA  
**EPA Region:** 05  
**Land Type:** Private  
**Receive Date:** 20210831  
**Location Latitude:** 41.456186  
**Location Longitude:** -81.725113

**Event/Area Details**

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Area Name:</b>		ENTIRE FACILITY				
<b>Event Code:</b>		CA050				
<b>Corrective Action Event Descri:</b>		RFA COMPLETED				
<b>Actual Date of Event:</b>		19901208				
<b>Orig Sched Event Date:</b>						
<b>New Sched Event Date:</b>						
<b>Best Date:</b>		19901208				
<b>Groundwater Release Indicator:</b>						
<b>Soil Release Indicator:</b>						
<b>Air Release Indicator:</b>						
<b>Surface Waste Release Ind:</b>						
<b>Event Responsible Agency:</b>		E				
<b>Area Name:</b>		ENTIRE FACILITY				
<b>Event Code:</b>		CA075ME				
<b>Corrective Action Event Descri:</b>		CA PRIORITIZATION-MEDIUM CA PRIORITY				
<b>Actual Date of Event:</b>		19940331				
<b>Orig Sched Event Date:</b>						
<b>New Sched Event Date:</b>						
<b>Best Date:</b>		19940331				
<b>Groundwater Release Indicator:</b>						
<b>Soil Release Indicator:</b>						
<b>Air Release Indicator:</b>						
<b>Surface Waste Release Ind:</b>						
<b>Event Responsible Agency:</b>		E				
<b>Area Name:</b>		ENTIRE FACILITY				
<b>Event Code:</b>		CA070YE				
<b>Corrective Action Event Descri:</b>		DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY				
<b>Actual Date of Event:</b>		19901208				
<b>Orig Sched Event Date:</b>						
<b>New Sched Event Date:</b>						
<b>Best Date:</b>		19901208				
<b>Groundwater Release Indicator:</b>						
<b>Soil Release Indicator:</b>						
<b>Air Release Indicator:</b>						
<b>Surface Waste Release Ind:</b>						
<b>Event Responsible Agency:</b>		E				
<b>Area Name:</b>		ENTIRE FACILITY				
<b>Event Code:</b>		CA075ME				
<b>Corrective Action Event Descri:</b>		CA PRIORITIZATION-MEDIUM CA PRIORITY				
<b>Actual Date of Event:</b>		19910927				
<b>Orig Sched Event Date:</b>						
<b>New Sched Event Date:</b>						
<b>Best Date:</b>		19910927				
<b>Groundwater Release Indicator:</b>						
<b>Soil Release Indicator:</b>						
<b>Air Release Indicator:</b>						
<b>Surface Waste Release Ind:</b>						
<b>Event Responsible Agency:</b>		E				

**Violation/Evaluation Summary**

**Note:** VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated Sep, 2022.

**Violation Details**

**Found Violation:** Yes

**Citation:**

**Violation Short Description:** TSD IS-Contingency Plan and Emergency Procedures

**Violation Type:** 265.D

**Violation Determined Date:** 20060420

**Scheduled Compliance Date:**

**Return to Compliance:** Documented

**Actual Return to Compl:** 20100225

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Violation Responsible Agency: State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060501  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060612  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20061220  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060926  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060728  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 125  
**Enforcement Type Description:** Director-Division Warning Letter  
**Enforcement Action Date:** 20070116  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

Found Violation: Yes

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Citation:**  
**Violation Short Description:** TSD IS-Preparedness and Prevention  
**Violation Type:** 265.C  
**Violation Determined Date:** 20070516  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20100225  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20070911  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20070606  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-65-73  
**Violation Short Description:** TSD - Manifest/Records/Reporting  
**Violation Type:** 264.E  
**Violation Determined Date:** 19830607  
**Scheduled Compliance Date:**  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19831206  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19830714  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19831018  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** TSD IS-Tank System Standards  
**Violation Type:** 265.J  
**Violation Determined Date:** 20090716  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20091029  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20090922  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20090803  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** TSD IS-Container Use and Management  
**Violation Type:** 265.I  
**Violation Determined Date:** 20090716  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20091029  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20090922  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20090803  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Final Amount:  
Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation: SR - 3745-65-73  
 Violation Short Description: TSD - Manifest/Records/Reporting  
 Violation Type: 264.E  
 Violation Determined Date: 19861028  
 Scheduled Compliance Date: 19861213  
 Return to Compliance: Observed  
 Actual Return to Compl: 19870429  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 19861113  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation: SS - 3734.02  
 Violation Short Description: Generators - General  
 Violation Type: 262.A  
 Violation Determined Date: 19860428  
 Scheduled Compliance Date: 19860613  
 Return to Compliance: Observed  
 Actual Return to Compl: 19860709  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 19860513  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation: SR - 3745-52-41  
 Violation Short Description: Generators - Records/Reporting  
 Violation Type: 262.D  
 Violation Determined Date: 20050415  
 Scheduled Compliance Date:  
 Return to Compliance: Documented  
 Actual Return to Compl: 20050415  
 Violation Responsible Agency: State

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20050415  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-66-71  
**Violation Short Description:** TSD - Container Use and Management  
**Violation Type:** 264.1  
**Violation Determined Date:** 19830607  
**Scheduled Compliance Date:**  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19830929  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19830714  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** Generators - Pre-transport  
**Violation Type:** 262.C  
**Violation Determined Date:** 20140818  
**Scheduled Compliance Date:**  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 20140818  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20141002  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Found Violation:</b>		Yes				
<b>Citation:</b>						
<b>Violation Short Description:</b>		State Statute or Regulation				
<b>Violation Type:</b>		XXS				
<b>Violation Determined Date:</b>		20070516				
<b>Scheduled Compliance Date:</b>						
<b>Return to Compliance:</b>		Documented				
<b>Actual Return to Compl:</b>		20110630				
<b>Violation Responsible Agency:</b>		State				

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20070911  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 610  
**Enforcement Type Description:** FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
**Enforcement Action Date:** 20110630  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:** 60000  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20070606  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** TSD IS-Preparedness and Prevention  
**Violation Type:** 265.C  
**Violation Determined Date:** 20060420  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20100225  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060728  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 125  
**Enforcement Type Description:** Director-Division Warning Letter  
**Enforcement Action Date:** 20070116  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060612  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20061220  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060926  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060501  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-65-15(A)  
**Violation Short Description:** TSD - General Facility Standards  
**Violation Type:** 264.B  
**Violation Determined Date:** 19920228  
**Scheduled Compliance Date:** 19920403  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19920402  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Enforcement Action Date:</b>		19920303				
<b>Enf Disposition Status:</b>						
<b>Disposition Status Date:</b>						
<b>Enforcement Lead Agency:</b>		State				
<b>Proposed Penalty Amount:</b>						
<b>Final Amount:</b>						
<b>Paid Amount:</b>						
 <b><u>Violation Details</u></b>						
<b>Found Violation:</b>		Yes				
<b>Citation:</b>						
<b>Violation Short Description:</b>		Generators - Records/Reporting				
<b>Violation Type:</b>		262.D				
<b>Violation Determined Date:</b>		20070516				
<b>Scheduled Compliance Date:</b>						
<b>Return to Compliance:</b>		Documented				
<b>Actual Return to Compl:</b>		20100225				
<b>Violation Responsible Agency:</b>		State				
 <b><u>Enforcement Details</u></b>						
<b>Enforcement Type:</b>		120				
<b>Enforcement Type Description:</b>		WRITTEN INFORMAL				
<b>Enforcement Action Date:</b>		20070606				
<b>Enf Disposition Status:</b>						
<b>Disposition Status Date:</b>						
<b>Enforcement Lead Agency:</b>		State				
<b>Proposed Penalty Amount:</b>						
<b>Final Amount:</b>						
<b>Paid Amount:</b>						
<b>Enforcement Type:</b>		120				
<b>Enforcement Type Description:</b>		WRITTEN INFORMAL				
<b>Enforcement Action Date:</b>		20070911				
<b>Enf Disposition Status:</b>						
<b>Disposition Status Date:</b>						
<b>Enforcement Lead Agency:</b>		State				
<b>Proposed Penalty Amount:</b>						
<b>Final Amount:</b>						
<b>Paid Amount:</b>						
 <b><u>Violation Details</u></b>						
<b>Found Violation:</b>		Yes				
<b>Citation:</b>						
<b>Violation Short Description:</b>		TSD IS-Contingency Plan and Emergency Procedures				
<b>Violation Type:</b>		265.D				
<b>Violation Determined Date:</b>		20070516				
<b>Scheduled Compliance Date:</b>						
<b>Return to Compliance:</b>		Documented				
<b>Actual Return to Compl:</b>		20100225				
<b>Violation Responsible Agency:</b>		State				
 <b><u>Enforcement Details</u></b>						
<b>Enforcement Type:</b>		120				
<b>Enforcement Type Description:</b>		WRITTEN INFORMAL				
<b>Enforcement Action Date:</b>		20070911				
<b>Enf Disposition Status:</b>						
<b>Disposition Status Date:</b>						
<b>Enforcement Lead Agency:</b>		State				
<b>Proposed Penalty Amount:</b>						
<b>Final Amount:</b>						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20070606  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** Generators - General  
**Violation Type:** 262.A  
**Violation Determined Date:** 20210831  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20210915  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20210930  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-65-16  
**Violation Short Description:** TSD - General Facility Standards  
**Violation Type:** 264.B  
**Violation Determined Date:** 19860428  
**Scheduled Compliance Date:** 19860613  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19860709  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19860513  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Citation:**  
**Violation Short Description:** TSD IS-General Facility Standards  
**Violation Type:** 265.B  
**Violation Determined Date:** 20140818  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20141117  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20141002  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20141114  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-65-75  
**Violation Short Description:** TSD - Manifest/Records/Reporting  
**Violation Type:** 264.E  
**Violation Determined Date:** 19840531  
**Scheduled Compliance Date:**  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19840803  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19840604  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-65-73  
**Violation Short Description:** TSD - Manifest/Records/Reporting  
**Violation Type:** 264.E  
**Violation Determined Date:** 19860428  
**Scheduled Compliance Date:** 19860613  
**Return to Compliance:** Observed

Actual Return to Compl: 19860709  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 19860513  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation: SR - 3745-66-43  
 Violation Short Description: TSD - Financial Requirements  
 Violation Type: 264.H  
 Violation Determined Date: 19940113  
 Scheduled Compliance Date:  
 Return to Compliance: Observed  
 Actual Return to Compl: 19970106  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 510  
 Enforcement Type Description: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
 Enforcement Action Date: 19971117  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Enforcement Type: 410  
 Enforcement Type Description: REFERRAL TO ATTORNEY GENERAL  
 Enforcement Action Date: 19960621  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 19940118  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Enforcement Type: 610  
 Enforcement Type Description: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
 Enforcement Action Date: 19971124  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation: SR - 3745-65-52  
 Violation Short Description: TSD - Contingency Plan and Emergency Procedures  
 Violation Type: 264.D  
 Violation Determined Date: 19830607  
 Scheduled Compliance Date:  
 Return to Compliance: Observed  
 Actual Return to Compl: 19830929  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 19830714  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation:  
 Violation Short Description: Generators - General  
 Violation Type: 262.A  
 Violation Determined Date: 20070516  
 Scheduled Compliance Date:  
 Return to Compliance: Documented  
 Actual Return to Compl: 20100225  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20070606  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20070911  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** Generators - Pre-transport  
**Violation Type:** 262.C  
**Violation Determined Date:** 20090716  
**Scheduled Compliance Date:**  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 20090716  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20090803  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-66-13(B)  
**Violation Short Description:** TSD - Closure/Post-Closure  
**Violation Type:** 264.G  
**Violation Determined Date:** 19931117  
**Scheduled Compliance Date:** 19931224  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19931228  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19931122  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** State Statute or Regulation  
**Violation Type:** XXS  
**Violation Determined Date:** 20210831  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20210915  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Enforcement Action Date:** 20210930  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** Generators - Manifest  
**Violation Type:** 262.B  
**Violation Determined Date:** 20090716  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20090716  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20090803  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-66-12  
**Violation Short Description:** TSD - Closure/Post-Closure  
**Violation Type:** 264.G  
**Violation Determined Date:** 19920228  
**Scheduled Compliance Date:** 19920403  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19920402  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19920303  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** Generators - Records/Reporting  
**Violation Type:** 262.D  
**Violation Determined Date:** 20090716

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
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**Scheduled Compliance Date:**  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 20090716  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20090803  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** Generators - Records/Reporting  
**Violation Type:** 262.D  
**Violation Determined Date:** 20080808  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20090505  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20080808  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** Universal Waste - Small Quantity Handlers  
**Violation Type:** 273.B  
**Violation Determined Date:** 20070516  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20100225  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20070606  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
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**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20070911  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-66-47  
**Violation Short Description:** TSD - Financial Requirements  
**Violation Type:** 264.H  
**Violation Determined Date:** 19940113  
**Scheduled Compliance Date:**  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19970106  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19940118  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 610  
**Enforcement Type Description:** FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
**Enforcement Action Date:** 19971124  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 410  
**Enforcement Type Description:** REFERRAL TO ATTORNEY GENERAL  
**Enforcement Action Date:** 19960621  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 510  
**Enforcement Type Description:** INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY  
**Enforcement Action Date:** 19971117  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** TSD IS-Container Use and Management  
**Violation Type:** 265.I  
**Violation Determined Date:** 20070516  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20100225  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20070911  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20070606  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** Universal Waste - Small Quantity Handlers  
**Violation Type:** 273.B  
**Violation Determined Date:** 20140818  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20141119  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20141002  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20141114  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Final Amount:  
Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation:  
 Violation Short Description: TSD IS-General Facility Standards  
 Violation Type: 265.B  
 Violation Determined Date: 20090716  
 Scheduled Compliance Date:  
 Return to Compliance: Documented  
 Actual Return to Compl: 20100224  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20090803  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20100119  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20091112  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20090922  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation: SR - 3745-66-73  
 Violation Short Description: TSD - Container Use and Management  
 Violation Type: 264.I  
 Violation Determined Date: 19830607  
 Scheduled Compliance Date:

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
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**Return to Compliance:** Observed  
**Actual Return to Compl:** 19831206  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19830714  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19831018  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** Generators - Manifest  
**Violation Type:** 262.B  
**Violation Determined Date:** 20060420  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20060814  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060501  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060728  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060612  
**Enf Disposition Status:**  
**Disposition Status Date:**

**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** Generators - Pre-transport  
**Violation Type:** 262.C  
**Violation Determined Date:** 20060420  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20060814  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060728  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060612  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060501  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-66-43 & 66-47  
**Violation Short Description:** TSD - Financial Requirements  
**Violation Type:** 264.H  
**Violation Determined Date:** 19920224  
**Scheduled Compliance Date:**  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19930223  
**Violation Responsible Agency:** State

**Violation Details**

**Found Violation:** Yes

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Citation:** SR - 3745-65-15  
**Violation Short Description:** TSD - General Facility Standards  
**Violation Type:** 264.B  
**Violation Determined Date:** 19860428  
**Scheduled Compliance Date:** 19860613  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19860709  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19860513  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** TSD IS-Tank System Standards  
**Violation Type:** 265.J  
**Violation Determined Date:** 20070516  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20100225  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20070606  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20070911  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-65-16  
**Violation Short Description:** TSD - General Facility Standards  
**Violation Type:** 264.B  
**Violation Determined Date:** 19820506  
**Scheduled Compliance Date:**  
**Return to Compliance:** Observed

Actual Return to Compl: 19831206  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 19830714  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 19831018  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 19820518  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation:  
 Violation Short Description: TSD IS-Tank System Standards  
 Violation Type: 265.J  
 Violation Determined Date: 20061020  
 Scheduled Compliance Date:  
 Return to Compliance: Documented  
 Actual Return to Compl: 20100225  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20061220  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation: SR - 3745-52-34(C)(1)  
 Violation Short Description: Generators - Manifest

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Violation Type:** 262.B  
**Violation Determined Date:** 19871124  
**Scheduled Compliance Date:** 19871221  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19880125  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19871207  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** TSD IS-Preparedness and Prevention  
**Violation Type:** 265.C  
**Violation Determined Date:** 20140818  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20141117  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20141114  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20141002  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** TSD IS-General Facility Standards  
**Violation Type:** 265.B  
**Violation Determined Date:** 20070516  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20100225  
**Violation Responsible Agency:** State

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20070606  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20070911  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-65-55  
**Violation Short Description:** TSD - Contingency Plan and Emergency Procedures  
**Violation Type:** 264.D  
**Violation Determined Date:** 19830607  
**Scheduled Compliance Date:**  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19830929  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19830714  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** TSD IS-Contingency Plan and Emergency Procedures  
**Violation Type:** 265.D  
**Violation Determined Date:** 20140818  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20140826  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Enforcement Action Date:** 20141002  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-66-42  
**Violation Short Description:** TSD - Financial Requirements  
**Violation Type:** 264.H  
**Violation Determined Date:** 19830929  
**Scheduled Compliance Date:**  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19831130  
**Violation Responsible Agency:** State

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-66-12  
**Violation Short Description:** TSD - Closure/Post-Closure  
**Violation Type:** 264.G  
**Violation Determined Date:** 19830607  
**Scheduled Compliance Date:**  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19831206  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19830714  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19831018  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** Generators - Pre-transport  
**Violation Type:** 262.C  
**Violation Determined Date:** 20070516  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20100225

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20070911  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20070606  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation:  
 Violation Short Description: Generators - Records/Reporting  
 Violation Type: 262.D  
 Violation Determined Date: 20070611  
 Scheduled Compliance Date:  
 Return to Compliance: Documented  
 Actual Return to Compl: 20070611  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20070611  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation:  
 Violation Short Description: TSD IS-Container Use and Management  
 Violation Type: 265.I  
 Violation Determined Date: 20060420  
 Scheduled Compliance Date:  
 Return to Compliance: Documented  
 Actual Return to Compl: 20100225  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
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**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060501  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060926  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 125  
**Enforcement Type Description:** Director-Division Warning Letter  
**Enforcement Action Date:** 20070116  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20061220  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060612  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060728  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** TSD IS-Tank System Standards  
**Violation Type:** 265.J  
**Violation Determined Date:** 20090716  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented

Actual Return to Compl: 20090903  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20090803  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation: SR - 3745-66-43 & 66-47  
 Violation Short Description: TSD - Financial Requirements  
 Violation Type: 264.H  
 Violation Determined Date: 19920224  
 Scheduled Compliance Date: 19920326  
 Return to Compliance: Observed  
 Actual Return to Compl: 19930223  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 19920225  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation:  
 Violation Short Description: TSD IS-General Facility Standards  
 Violation Type: 265.B  
 Violation Determined Date: 20061020  
 Scheduled Compliance Date:  
 Return to Compliance: Documented  
 Actual Return to Compl: 20100225  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20061220  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** TSD IS-Preparedness and Prevention  
**Violation Type:** 265.C  
**Violation Determined Date:** 20140818  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20140821  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20141002  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** TSD IS-Preparedness and Prevention  
**Violation Type:** 265.C  
**Violation Determined Date:** 20140818  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20141110  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20141002  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** Generators - General  
**Violation Type:** 262.A  
**Violation Determined Date:** 20061020  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20100225  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20061220  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** Generators - General  
**Violation Type:** 262.A  
**Violation Determined Date:** 20210831  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20210930  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20210930  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-65-52(D)  
**Violation Short Description:** TSD - Contingency Plan and Emergency Procedures  
**Violation Type:** 264.D  
**Violation Determined Date:** 19860428  
**Scheduled Compliance Date:** 19860613  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19860709  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19860513  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** Generators - General

**Violation Type:** 262.A  
**Violation Determined Date:** 20060420  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20060814  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060501  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060728  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060612  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** TSD IS-Contingency Plan and Emergency Procedures  
**Violation Type:** 265.D  
**Violation Determined Date:** 20140818  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20141031  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20141002  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-66-42  
**Violation Short Description:** TSD - Financial Requirements  
**Violation Type:** 264.H  
**Violation Determined Date:** 19830929  
**Scheduled Compliance Date:** 19831118  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19831130  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19831018  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** State Statute or Regulation  
**Violation Type:** XXS  
**Violation Determined Date:** 20060420  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20100225  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 125  
**Enforcement Type Description:** Director-Division Warning Letter  
**Enforcement Action Date:** 20070116  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20061220  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060728  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060612  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060926  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060501  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** LDR - General  
**Violation Type:** 268.A  
**Violation Determined Date:** 20060420  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20100225  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060728  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060612  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120

**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060501  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20061220  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20060926  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 125  
**Enforcement Type Description:** Director-Division Warning Letter  
**Enforcement Action Date:** 20070116  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-65-53  
**Violation Short Description:** TSD - Contingency Plan and Emergency Procedures  
**Violation Type:** 264.D  
**Violation Determined Date:** 19830607  
**Scheduled Compliance Date:**  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19831206  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19831018  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19830714  
**Enf Disposition Status:**

Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation:  
 Violation Short Description: TSD IS-General Facility Standards  
 Violation Type: 265.B  
 Violation Determined Date: 20090716  
 Scheduled Compliance Date:  
 Return to Compliance: Documented  
 Actual Return to Compl: 20091029  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20090922  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20090803  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Violation Details**

Found Violation: Yes  
 Citation:  
 Violation Short Description: TSD IS-Contingency Plan and Emergency Procedures  
 Violation Type: 265.D  
 Violation Determined Date: 20090716  
 Scheduled Compliance Date:  
 Return to Compliance: Documented  
 Actual Return to Compl: 20091029  
 Violation Responsible Agency: State

**Enforcement Details**

Enforcement Type: 120  
 Enforcement Type Description: WRITTEN INFORMAL  
 Enforcement Action Date: 20090922  
 Enf Disposition Status:  
 Disposition Status Date:  
 Enforcement Lead Agency: State  
 Proposed Penalty Amount:  
 Final Amount:  
 Paid Amount:

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20090803  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-52-41  
**Violation Short Description:** Generators - Records/Reporting  
**Violation Type:** 262.D  
**Violation Determined Date:** 20040625  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20040625  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20040625  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:**  
**Violation Short Description:** Generators - Pre-transport  
**Violation Type:** 262.C  
**Violation Determined Date:** 20090716  
**Scheduled Compliance Date:**  
**Return to Compliance:** Documented  
**Actual Return to Compl:** 20090903  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 20090803  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-66-12  
**Violation Short Description:** TSD - Closure/Post-Closure

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Violation Type:** 264.G  
**Violation Determined Date:** 19860428  
**Scheduled Compliance Date:** 19860613  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19860819  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19860513  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Violation Details**

**Found Violation:** Yes  
**Citation:** SR - 3745-65-73  
**Violation Short Description:** TSD - Manifest/Records/Reporting  
**Violation Type:** 264.E  
**Violation Determined Date:** 19871124  
**Scheduled Compliance Date:** 19871221  
**Return to Compliance:** Observed  
**Actual Return to Compl:** 19880125  
**Violation Responsible Agency:** State

**Enforcement Details**

**Enforcement Type:** 120  
**Enforcement Type Description:** WRITTEN INFORMAL  
**Enforcement Action Date:** 19871207  
**Enf Disposition Status:**  
**Disposition Status Date:**  
**Enforcement Lead Agency:** State  
**Proposed Penalty Amount:**  
**Final Amount:**  
**Paid Amount:**

**Evaluation Details**

**Evaluation Start Date:** 20141110  
**Evaluation Type Description:** NON-FINANCIAL RECORD REVIEW  
**Violation Short Description:** TSD IS-General Facility Standards  
**Return to Compliance Date:** 20141117  
**Evaluation Agency:** State

**Evaluation Start Date:** 20140818  
**Evaluation Type Description:** COMPLIANCE EVALUATION INSPECTION ON-SITE  
**Violation Short Description:** TSD IS-Contingency Plan and Emergency Procedures  
**Return to Compliance Date:** 20141031  
**Evaluation Agency:** State

**Evaluation Start Date:** 20090716  
**Evaluation Type Description:** COMPLIANCE EVALUATION INSPECTION ON-SITE  
**Violation Short Description:** TSD IS-Contingency Plan and Emergency Procedures  
**Return to Compliance Date:** 20091029  
**Evaluation Agency:** State

**Evaluation Start Date:** 20141110

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Evaluation Type Description:</b>			NON-FINANCIAL RECORD REVIEW			
<b>Violation Short Description:</b>			TSD IS-Preparedness and Prevention			
<b>Return to Compliance Date:</b>			20141117			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20030319			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>						
<b>Return to Compliance Date:</b>						
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			19820506			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			TSD - General Facility Standards			
<b>Return to Compliance Date:</b>			19831206			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20061103			
<b>Evaluation Type Description:</b>			SIGNIFICANT NON-COMPLIER			
<b>Violation Short Description:</b>			TSD IS-Contingency Plan and Emergency Procedures			
<b>Return to Compliance Date:</b>			20100225			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20090716			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			TSD IS-Container Use and Management			
<b>Return to Compliance Date:</b>			20091029			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20080808			
<b>Evaluation Type Description:</b>			NON-FINANCIAL RECORD REVIEW			
<b>Violation Short Description:</b>			Generators - Records/Reporting			
<b>Return to Compliance Date:</b>			20090505			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			19940113			
<b>Evaluation Type Description:</b>			FINANCIAL RECORD REVIEW			
<b>Violation Short Description:</b>			TSD - Financial Requirements			
<b>Return to Compliance Date:</b>			19970106			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20070516			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			TSD IS-Container Use and Management			
<b>Return to Compliance Date:</b>			20100225			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			19841206			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>						
<b>Return to Compliance Date:</b>						
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20060420			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			Generators - Manifest			
<b>Return to Compliance Date:</b>			20060814			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			19830607			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			TSD - Container Use and Management			
<b>Return to Compliance Date:</b>			19831206			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20141110			
<b>Evaluation Type Description:</b>			NON-FINANCIAL RECORD REVIEW			
<b>Violation Short Description:</b>			Universal Waste - Small Quantity Handlers			
<b>Return to Compliance Date:</b>			20141119			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20140818				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		TSD IS-Contingency Plan and Emergency Procedures				
<b>Return to Compliance Date:</b>		20140826				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20210831				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		Generators - General				
<b>Return to Compliance Date:</b>		20210915				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20060420				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		Generators - General				
<b>Return to Compliance Date:</b>		20060814				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20060420				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		TSD IS-Container Use and Management				
<b>Return to Compliance Date:</b>		20100225				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20060814				
<b>Evaluation Type Description:</b>		NON-FINANCIAL RECORD REVIEW				
<b>Violation Short Description:</b>		TSD IS-Contingency Plan and Emergency Procedures				
<b>Return to Compliance Date:</b>		20100225				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20070516				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		TSD IS-Preparedness and Prevention				
<b>Return to Compliance Date:</b>		20100225				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		19861028				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		TSD - Manifest/Records/Reporting				
<b>Return to Compliance Date:</b>		19870429				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20061103				
<b>Evaluation Type Description:</b>		SIGNIFICANT NON-COMPLIER				
<b>Violation Short Description:</b>		TSD IS-Container Use and Management				
<b>Return to Compliance Date:</b>		20100225				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20140818				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		TSD IS-Preparedness and Prevention				
<b>Return to Compliance Date:</b>		20141117				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		19890407				
<b>Evaluation Type Description:</b>		FINANCIAL RECORD REVIEW				
<b>Violation Short Description:</b>						
<b>Return to Compliance Date:</b>						
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20061020				
<b>Evaluation Type Description:</b>		NON-FINANCIAL RECORD REVIEW				
<b>Violation Short Description:</b>		TSD IS-Preparedness and Prevention				
<b>Return to Compliance Date:</b>		20100225				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20091029				

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Evaluation Type Description:</b>			NON-FINANCIAL RECORD REVIEW			
<b>Violation Short Description:</b>			TSD IS-General Facility Standards			
<b>Return to Compliance Date:</b>			20100224			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			19830607			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			TSD - General Facility Standards			
<b>Return to Compliance Date:</b>			19831206			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20090716			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			Generators - Pre-transport			
<b>Return to Compliance Date:</b>			20090716			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20210831			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			State Statute or Regulation			
<b>Return to Compliance Date:</b>			20210915			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20090505			
<b>Evaluation Type Description:</b>			NON-FINANCIAL RECORD REVIEW			
<b>Violation Short Description:</b>						
<b>Return to Compliance Date:</b>						
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20090716			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			Generators - Records/Reporting			
<b>Return to Compliance Date:</b>			20090716			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20061020			
<b>Evaluation Type Description:</b>			NON-FINANCIAL RECORD REVIEW			
<b>Violation Short Description:</b>			LDR - General			
<b>Return to Compliance Date:</b>			20100225			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20140818			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			Universal Waste - Small Quantity Handlers			
<b>Return to Compliance Date:</b>			20141119			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20070611			
<b>Evaluation Type Description:</b>			NON-FINANCIAL RECORD REVIEW			
<b>Violation Short Description:</b>			Generators - Records/Reporting			
<b>Return to Compliance Date:</b>			20070611			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			19900918			
<b>Evaluation Type Description:</b>			FINANCIAL RECORD REVIEW			
<b>Violation Short Description:</b>						
<b>Return to Compliance Date:</b>						
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20140818			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			TSD IS-Preparedness and Prevention			
<b>Return to Compliance Date:</b>			20141110			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			19860428			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			TSD - Manifest/Records/Reporting			
<b>Return to Compliance Date:</b>			19860709			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20060814				
<b>Evaluation Type Description:</b>		NON-FINANCIAL RECORD REVIEW				
<b>Violation Short Description:</b>		LDR - General				
<b>Return to Compliance Date:</b>		20100225				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20061020				
<b>Evaluation Type Description:</b>		NON-FINANCIAL RECORD REVIEW				
<b>Violation Short Description:</b>		TSD IS-Contingency Plan and Emergency Procedures				
<b>Return to Compliance Date:</b>		20100225				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20061020				
<b>Evaluation Type Description:</b>		NON-FINANCIAL RECORD REVIEW				
<b>Violation Short Description:</b>		TSD IS-General Facility Standards				
<b>Return to Compliance Date:</b>		20100225				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20060814				
<b>Evaluation Type Description:</b>		NON-FINANCIAL RECORD REVIEW				
<b>Violation Short Description:</b>		TSD IS-Preparedness and Prevention				
<b>Return to Compliance Date:</b>		20100225				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20061020				
<b>Evaluation Type Description:</b>		NON-FINANCIAL RECORD REVIEW				
<b>Violation Short Description:</b>		TSD IS-Container Use and Management				
<b>Return to Compliance Date:</b>		20100225				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20060420				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		LDR - General				
<b>Return to Compliance Date:</b>		20100225				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		19970106				
<b>Evaluation Type Description:</b>		FINANCIAL RECORD REVIEW				
<b>Violation Short Description:</b>						
<b>Return to Compliance Date:</b>						
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		19830929				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		TSD - Container Use and Management				
<b>Return to Compliance Date:</b>		19831206				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20090716				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		TSD IS-General Facility Standards				
<b>Return to Compliance Date:</b>		20100224				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20061103				
<b>Evaluation Type Description:</b>		SIGNIFICANT NON-COMPLIER				
<b>Violation Short Description:</b>		State Statute or Regulation				
<b>Return to Compliance Date:</b>		20100225				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		19880503				
<b>Evaluation Type Description:</b>		FINANCIAL RECORD REVIEW				
<b>Violation Short Description:</b>						
<b>Return to Compliance Date:</b>						
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		19930217				

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<i>Evaluation Type Description:</i>					FINANCIAL RECORD REVIEW	
<i>Violation Short Description:</i>						
<i>Return to Compliance Date:</i>						
<i>Evaluation Agency:</i>		State				
<i>Evaluation Start Date:</i>		19830607				
<i>Evaluation Type Description:</i>					COMPLIANCE EVALUATION INSPECTION ON-SITE	
<i>Violation Short Description:</i>					TSD - Container Use and Management	
<i>Return to Compliance Date:</i>		19830929				
<i>Evaluation Agency:</i>		State				
<i>Evaluation Start Date:</i>		19860428				
<i>Evaluation Type Description:</i>					COMPLIANCE EVALUATION INSPECTION ON-SITE	
<i>Violation Short Description:</i>					TSD - Closure/Post-Closure	
<i>Return to Compliance Date:</i>		19860819				
<i>Evaluation Agency:</i>		State				
<i>Evaluation Start Date:</i>		20140818				
<i>Evaluation Type Description:</i>					COMPLIANCE EVALUATION INSPECTION ON-SITE	
<i>Violation Short Description:</i>					Generators - Pre-transport	
<i>Return to Compliance Date:</i>		20140818				
<i>Evaluation Agency:</i>		State				
<i>Evaluation Start Date:</i>		20070516				
<i>Evaluation Type Description:</i>					COMPLIANCE EVALUATION INSPECTION ON-SITE	
<i>Violation Short Description:</i>					State Statute or Regulation	
<i>Return to Compliance Date:</i>		20110630				
<i>Evaluation Agency:</i>		State				
<i>Evaluation Start Date:</i>		20090903				
<i>Evaluation Type Description:</i>					NON-FINANCIAL RECORD REVIEW	
<i>Violation Short Description:</i>					TSD IS-Tank System Standards	
<i>Return to Compliance Date:</i>		20091029				
<i>Evaluation Agency:</i>		State				
<i>Evaluation Start Date:</i>		19830929				
<i>Evaluation Type Description:</i>					COMPLIANCE EVALUATION INSPECTION ON-SITE	
<i>Violation Short Description:</i>					TSD - General Facility Standards	
<i>Return to Compliance Date:</i>		19831206				
<i>Evaluation Agency:</i>		State				
<i>Evaluation Start Date:</i>		20110630				
<i>Evaluation Type Description:</i>					NOT A SIGNIFICANT NON-COMPLIER	
<i>Violation Short Description:</i>						
<i>Return to Compliance Date:</i>						
<i>Evaluation Agency:</i>		State				
<i>Evaluation Start Date:</i>		20060814				
<i>Evaluation Type Description:</i>					NON-FINANCIAL RECORD REVIEW	
<i>Violation Short Description:</i>					TSD IS-Container Use and Management	
<i>Return to Compliance Date:</i>		20100225				
<i>Evaluation Agency:</i>		State				
<i>Evaluation Start Date:</i>		19860428				
<i>Evaluation Type Description:</i>					COMPLIANCE EVALUATION INSPECTION ON-SITE	
<i>Violation Short Description:</i>					Generators - General	
<i>Return to Compliance Date:</i>		19860709				
<i>Evaluation Agency:</i>		State				
<i>Evaluation Start Date:</i>		20070516				
<i>Evaluation Type Description:</i>					COMPLIANCE EVALUATION INSPECTION ON-SITE	
<i>Violation Short Description:</i>					Generators - General	
<i>Return to Compliance Date:</i>		20100225				
<i>Evaluation Agency:</i>		State				
<i>Evaluation Start Date:</i>		20061020				
<i>Evaluation Type Description:</i>					NON-FINANCIAL RECORD REVIEW	
<i>Violation Short Description:</i>					Generators - General	
<i>Return to Compliance Date:</i>		20100225				

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		19860428				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		TSD - General Facility Standards				
<b>Return to Compliance Date:</b>		19860709				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20090903				
<b>Evaluation Type Description:</b>		NON-FINANCIAL RECORD REVIEW				
<b>Violation Short Description:</b>		TSD IS-Contingency Plan and Emergency Procedures				
<b>Return to Compliance Date:</b>		20091029				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20090716				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		Generators - Manifest				
<b>Return to Compliance Date:</b>		20090716				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20040625				
<b>Evaluation Type Description:</b>		NON-FINANCIAL RECORD REVIEW				
<b>Violation Short Description:</b>		Generators - Records/Reporting				
<b>Return to Compliance Date:</b>		20040625				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20090716				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		Generators - Pre-transport				
<b>Return to Compliance Date:</b>		20090903				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20061103				
<b>Evaluation Type Description:</b>		SIGNIFICANT NON-COMPLIER				
<b>Violation Short Description:</b>		LDR - General				
<b>Return to Compliance Date:</b>		20100225				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20061103				
<b>Evaluation Type Description:</b>		SIGNIFICANT NON-COMPLIER				
<b>Violation Short Description:</b>		TSD IS-Preparedness and Prevention				
<b>Return to Compliance Date:</b>		20100225				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		19830607				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		TSD - Contingency Plan and Emergency Procedures				
<b>Return to Compliance Date:</b>		19831206				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		19920228				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		TSD - General Facility Standards				
<b>Return to Compliance Date:</b>		19920402				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20070516				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		Generators - Records/Reporting				
<b>Return to Compliance Date:</b>		20100225				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		19830929				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		TSD - Manifest/Records/Reporting				
<b>Return to Compliance Date:</b>		19831206				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20090903				

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Evaluation Type Description:</b>			NON-FINANCIAL RECORD REVIEW			
<b>Violation Short Description:</b>			TSD IS-Container Use and Management			
<b>Return to Compliance Date:</b>			20091029			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			19910308			
<b>Evaluation Type Description:</b>			FINANCIAL RECORD REVIEW			
<b>Violation Short Description:</b>						
<b>Return to Compliance Date:</b>						
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20061020			
<b>Evaluation Type Description:</b>			NON-FINANCIAL RECORD REVIEW			
<b>Violation Short Description:</b>			State Statute or Regulation			
<b>Return to Compliance Date:</b>			20100225			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20070516			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			TSD IS-Tank System Standards			
<b>Return to Compliance Date:</b>			20100225			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20070516			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			Generators - Pre-transport			
<b>Return to Compliance Date:</b>			20100225			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			19830607			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			TSD - Manifest/Records/Reporting			
<b>Return to Compliance Date:</b>			19831206			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			19920224			
<b>Evaluation Type Description:</b>			FINANCIAL RECORD REVIEW			
<b>Violation Short Description:</b>			TSD - Financial Requirements			
<b>Return to Compliance Date:</b>			19930223			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20070516			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			TSD IS-General Facility Standards			
<b>Return to Compliance Date:</b>			20100225			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			19830607			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			TSD - Contingency Plan and Emergency Procedures			
<b>Return to Compliance Date:</b>			19830929			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20070516			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			TSD IS-Contingency Plan and Emergency Procedures			
<b>Return to Compliance Date:</b>			20100225			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			20060420			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			Generators - Pre-transport			
<b>Return to Compliance Date:</b>			20060814			
<b>Evaluation Agency:</b>			State			
<b>Evaluation Start Date:</b>			19830929			
<b>Evaluation Type Description:</b>			COMPLIANCE EVALUATION INSPECTION ON-SITE			
<b>Violation Short Description:</b>			TSD - Contingency Plan and Emergency Procedures			
<b>Return to Compliance Date:</b>			19831206			

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20050415				
<b>Evaluation Type Description:</b>		NON-FINANCIAL RECORD REVIEW				
<b>Violation Short Description:</b>		Generators - Records/Reporting				
<b>Return to Compliance Date:</b>		20050415				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20140818				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		TSD IS-General Facility Standards				
<b>Return to Compliance Date:</b>		20141117				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		19830607				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		TSD - Closure/Post-Closure				
<b>Return to Compliance Date:</b>		19831206				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		19840531				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		TSD - Manifest/Records/Reporting				
<b>Return to Compliance Date:</b>		19840803				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		19871124				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		TSD - Manifest/Records/Reporting				
<b>Return to Compliance Date:</b>		19880125				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20060420				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		TSD IS-Contingency Plan and Emergency Procedures				
<b>Return to Compliance Date:</b>		20100225				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20090716				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		TSD IS-Tank System Standards				
<b>Return to Compliance Date:</b>		20090903				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20061020				
<b>Evaluation Type Description:</b>		NON-FINANCIAL RECORD REVIEW				
<b>Violation Short Description:</b>		TSD IS-Tank System Standards				
<b>Return to Compliance Date:</b>		20100225				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20090716				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		TSD IS-Tank System Standards				
<b>Return to Compliance Date:</b>		20091029				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		19871124				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		Generators - Manifest				
<b>Return to Compliance Date:</b>		19880125				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20070516				
<b>Evaluation Type Description:</b>		COMPLIANCE EVALUATION INSPECTION ON-SITE				
<b>Violation Short Description:</b>		Universal Waste - Small Quantity Handlers				
<b>Return to Compliance Date:</b>		20100225				
<b>Evaluation Agency:</b>		State				
<b>Evaluation Start Date:</b>		20060420				

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Evaluation Type Description:</b>					COMPLIANCE EVALUATION INSPECTION ON-SITE	
<b>Violation Short Description:</b>					TSD IS-Preparedness and Prevention	
<b>Return to Compliance Date:</b>					20100225	
<b>Evaluation Agency:</b>					State	
<b>Evaluation Start Date:</b>					20090903	
<b>Evaluation Type Description:</b>					NON-FINANCIAL RECORD REVIEW	
<b>Violation Short Description:</b>					TSD IS-General Facility Standards	
<b>Return to Compliance Date:</b>					20100224	
<b>Evaluation Agency:</b>					State	
<b>Evaluation Start Date:</b>					20090716	
<b>Evaluation Type Description:</b>					COMPLIANCE EVALUATION INSPECTION ON-SITE	
<b>Violation Short Description:</b>					TSD IS-General Facility Standards	
<b>Return to Compliance Date:</b>					20091029	
<b>Evaluation Agency:</b>					State	
<b>Evaluation Start Date:</b>					20060814	
<b>Evaluation Type Description:</b>					NON-FINANCIAL RECORD REVIEW	
<b>Violation Short Description:</b>					State Statute or Regulation	
<b>Return to Compliance Date:</b>					20100225	
<b>Evaluation Agency:</b>					State	
<b>Evaluation Start Date:</b>					20060420	
<b>Evaluation Type Description:</b>					COMPLIANCE EVALUATION INSPECTION ON-SITE	
<b>Violation Short Description:</b>					State Statute or Regulation	
<b>Return to Compliance Date:</b>					20100225	
<b>Evaluation Agency:</b>					State	
<b>Evaluation Start Date:</b>					20210831	
<b>Evaluation Type Description:</b>					COMPLIANCE EVALUATION INSPECTION ON-SITE	
<b>Violation Short Description:</b>					Generators - General	
<b>Return to Compliance Date:</b>					20210930	
<b>Evaluation Agency:</b>					State	
<b>Evaluation Start Date:</b>					19830929	
<b>Evaluation Type Description:</b>					COMPLIANCE EVALUATION INSPECTION ON-SITE	
<b>Violation Short Description:</b>					TSD - Financial Requirements	
<b>Return to Compliance Date:</b>					19831130	
<b>Evaluation Agency:</b>					State	
<b>Evaluation Start Date:</b>					20090903	
<b>Evaluation Type Description:</b>					NON-FINANCIAL RECORD REVIEW	
<b>Violation Short Description:</b>					TSD IS-General Facility Standards	
<b>Return to Compliance Date:</b>					20091029	
<b>Evaluation Agency:</b>					State	
<b>Evaluation Start Date:</b>					20140818	
<b>Evaluation Type Description:</b>					COMPLIANCE EVALUATION INSPECTION ON-SITE	
<b>Violation Short Description:</b>					TSD IS-Preparedness and Prevention	
<b>Return to Compliance Date:</b>					20140821	
<b>Evaluation Agency:</b>					State	
<b>Evaluation Start Date:</b>					19931117	
<b>Evaluation Type Description:</b>					COMPLIANCE EVALUATION INSPECTION ON-SITE	
<b>Violation Short Description:</b>					TSD - Closure/Post-Closure	
<b>Return to Compliance Date:</b>					19931228	
<b>Evaluation Agency:</b>					State	
<b>Evaluation Start Date:</b>					19860428	
<b>Evaluation Type Description:</b>					COMPLIANCE EVALUATION INSPECTION ON-SITE	
<b>Violation Short Description:</b>					TSD - Contingency Plan and Emergency Procedures	
<b>Return to Compliance Date:</b>					19860709	
<b>Evaluation Agency:</b>					State	
<b>Evaluation Start Date:</b>					19920228	
<b>Evaluation Type Description:</b>					COMPLIANCE EVALUATION INSPECTION ON-SITE	
<b>Violation Short Description:</b>					TSD - Closure/Post-Closure	
<b>Return to Compliance Date:</b>					19920402	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Evaluation Agency:** State  
**Evaluation Start Date:** 19830929  
**Evaluation Type Description:** COMPLIANCE EVALUATION INSPECTION ON-SITE  
**Violation Short Description:** TSD - Closure/Post-Closure  
**Return to Compliance Date:** 19831206  
**Evaluation Agency:** State

**Handler Summary**

**Importer Activity:** No  
**Mixed Waste Generator:** No  
**Transporter Activity:** No  
**Transfer Facility:** No  
**Onsite Burner:** No  
**Smelting, Melting and Refining:** No  
**Underground Injection Control:** No  
**Commercial TSD:** No  
**Used Oil Transporter:** No  
**Used Oil Transfer Facility:** No  
**Used Oil Processor:** No  
**Used Oil Refiner:** No  
**Used Oil Burner:** No  
**Used Oil Market Burner:** No  
**Used Oil Spec Marketer:** No

**Hazardous Waste Handler Details**

**Sequence No:** 5  
**Receive Date:** 20210831  
**Handler Name:** CONTAINER COMPLIANCE CORPORATION  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator  
**Source Type:** Implementer

**Waste Code Details**

**Hazardous Waste Code:** D002  
**Waste Code Description:** CORROSIVE WASTE

**Hazardous Waste Handler Details**

**Sequence No:** 5  
**Receive Date:** 20030228  
**Handler Name:** CONTAINER COMPLIANCE CORP  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator  
**Source Type:** Annual/Biennial Report

**Waste Code Details**

**Hazardous Waste Code:** D001  
**Waste Code Description:** IGNITABLE WASTE

**Hazardous Waste Code:** D006  
**Waste Code Description:** CADMIUM

**Hazardous Waste Code:** D008  
**Waste Code Description:** LEAD

**Hazardous Waste Code:** D039  
**Waste Code Description:** TETRACHLOROETHYLENE

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Hazardous Waste Code:</b>			D002			
<b>Waste Code Description:</b>			CORROSIVE WASTE			
<b>Hazardous Waste Code:</b>			D007			
<b>Waste Code Description:</b>			CHROMIUM			
<b>Hazardous Waste Code:</b>			D035			
<b>Waste Code Description:</b>			METHYL ETHYL KETONE			
<b>Hazardous Waste Code:</b>			D040			
<b>Waste Code Description:</b>			TRICHLORETHYLENE			

**Hazardous Waste Handler Details**

**Sequence No:** 10  
**Receive Date:** 20170223  
**Handler Name:** CONTAINER COMPLIANCE CORP  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator  
**Source Type:** Annual/Biennial Report update with Notification

**Waste Code Details**

**Hazardous Waste Code:** D002  
**Waste Code Description:** CORROSIVE WASTE

**Hazardous Waste Handler Details**

**Sequence No:** 3  
**Receive Date:** 20090716  
**Handler Name:** CONTAINER COMPLIANCE CORP  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator  
**Source Type:** Implementer

**Waste Code Details**

**Hazardous Waste Code:** D002  
**Waste Code Description:** CORROSIVE WASTE

**Hazardous Waste Code:** D008  
**Waste Code Description:** LEAD

**Hazardous Waste Code:** D007  
**Waste Code Description:** CHROMIUM

**Hazardous Waste Handler Details**

**Sequence No:** 3  
**Receive Date:** 20050222  
**Handler Name:** CONTAINER COMPLIANCE CORP  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator  
**Source Type:** Annual/Biennial Report update with Notification

**Hazardous Waste Handler Details**

**Sequence No:** 9  
**Receive Date:** 20160229  
**Handler Name:** CONTAINER COMPLIANCE CORP  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
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Source Type: Annual/Biennial Report update with Notification

**Waste Code Details**

Hazardous Waste Code: D002  
Waste Code Description: CORROSIVE WASTE

**Hazardous Waste Handler Details**

Sequence No: 4  
Receive Date: 20060301  
Handler Name: CONTAINER COMPLIANCE CORP  
Federal Waste Generator Code: 1  
Generator Code Description: Large Quantity Generator  
Source Type: Annual/Biennial Report update with Notification

**Waste Code Details**

Hazardous Waste Code: D002  
Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: D007  
Waste Code Description: CHROMIUM

Hazardous Waste Code: D035  
Waste Code Description: METHYL ETHYL KETONE

Hazardous Waste Code: D040  
Waste Code Description: TRICHLOROETHYLENE

Hazardous Waste Code: D001  
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D005  
Waste Code Description: BARIUM

Hazardous Waste Code: D006  
Waste Code Description: CADMIUM

Hazardous Waste Code: D008  
Waste Code Description: LEAD

Hazardous Waste Code: D039  
Waste Code Description: TETRACHLOROETHYLENE

**Hazardous Waste Handler Details**

Sequence No: 1  
Receive Date: 19900301  
Handler Name: THIEM CORP  
Federal Waste Generator Code: 1  
Generator Code Description: Large Quantity Generator  
Source Type: Annual/Biennial Report

**Hazardous Waste Handler Details**

Sequence No: 4  
Receive Date: 20021016  
Handler Name: CONTAINER COMPLIANCE CORP  
Federal Waste Generator Code: 1  
Generator Code Description: Large Quantity Generator  
Source Type: Annual/Biennial Report

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
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**Hazardous Waste Handler Details**

**Sequence No:** 1  
**Receive Date:** 19801119  
**Handler Name:** CONTAINER COMPLIANCE CORP  
**Federal Waste Generator Code:** N  
**Generator Code Description:** Not a Generator, Verified  
**Source Type:** Part A

**Waste Code Details**

**Hazardous Waste Code:** D001  
**Waste Code Description:** IGNITABLE WASTE  
  
**Hazardous Waste Code:** U228  
**Waste Code Description:** ETHENE, TRICHLORO- (OR) TRICHLOROETHYLENE  
  
**Hazardous Waste Code:** U002  
**Waste Code Description:** 2-PROPANONE (I) (OR) ACETONE (I)  
  
**Hazardous Waste Code:** U239  
**Waste Code Description:** BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

**Hazardous Waste Handler Details**

**Sequence No:** 11  
**Receive Date:** 20200203  
**Handler Name:** CONTAINER COMPLIANCE CORPORATION  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator  
**Source Type:** Annual/Biennial Report update with Notification

**Waste Code Details**

**Hazardous Waste Code:** D002  
**Waste Code Description:** CORROSIVE WASTE

**Hazardous Waste Handler Details**

**Sequence No:** 5  
**Receive Date:** 20070530  
**Handler Name:** CONTAINER COMPLIANCE CORP  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator  
**Source Type:** Annual/Biennial Report update with Notification

**Waste Code Details**

**Hazardous Waste Code:** D002  
**Waste Code Description:** CORROSIVE WASTE  
  
**Hazardous Waste Code:** D006  
**Waste Code Description:** CADMIUM  
  
**Hazardous Waste Code:** D008  
**Waste Code Description:** LEAD  
  
**Hazardous Waste Code:** D039  
**Waste Code Description:** TETRACHLOROETHYLENE  
  
**Hazardous Waste Code:** D001  
**Waste Code Description:** IGNITABLE WASTE

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
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<b>Hazardous Waste Code:</b>	D005
<b>Waste Code Description:</b>	BARIUM
<b>Hazardous Waste Code:</b>	D007
<b>Waste Code Description:</b>	CHROMIUM
<b>Hazardous Waste Code:</b>	D035
<b>Waste Code Description:</b>	METHYL ETHYL KETONE
<b>Hazardous Waste Code:</b>	D040
<b>Waste Code Description:</b>	TRICHLORETHYLENE

**Hazardous Waste Handler Details**

<b>Sequence No:</b>	1
<b>Receive Date:</b>	19961025
<b>Handler Name:</b>	CONTAINER COMPLIANCE CORP
<b>Federal Waste Generator Code:</b>	N
<b>Generator Code Description:</b>	Not a Generator, Verified
<b>Source Type:</b>	Implementer

**Hazardous Waste Handler Details**

<b>Sequence No:</b>	2
<b>Receive Date:</b>	20090303
<b>Handler Name:</b>	CONTAINER COMPLIANCE CORP
<b>Federal Waste Generator Code:</b>	2
<b>Generator Code Description:</b>	Small Quantity Generator
<b>Source Type:</b>	Notification

**Waste Code Details**

<b>Hazardous Waste Code:</b>	D001
<b>Waste Code Description:</b>	IGNITABLE WASTE
<b>Hazardous Waste Code:</b>	D002
<b>Waste Code Description:</b>	CORROSIVE WASTE

**Hazardous Waste Handler Details**

<b>Sequence No:</b>	6
<b>Receive Date:</b>	20100412
<b>Handler Name:</b>	CONTAINER COMPLIANCE CORP
<b>Federal Waste Generator Code:</b>	1
<b>Generator Code Description:</b>	Large Quantity Generator
<b>Source Type:</b>	Annual/Biennial Report update with Notification

**Waste Code Details**

<b>Hazardous Waste Code:</b>	D001
<b>Waste Code Description:</b>	IGNITABLE WASTE
<b>Hazardous Waste Code:</b>	D005
<b>Waste Code Description:</b>	BARIUM
<b>Hazardous Waste Code:</b>	D007
<b>Waste Code Description:</b>	CHROMIUM
<b>Hazardous Waste Code:</b>	D011
<b>Waste Code Description:</b>	SILVER
<b>Hazardous Waste Code:</b>	D002

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
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**Waste Code Description:** CORROSIVE WASTE

**Hazardous Waste Code:** D006  
**Waste Code Description:** CADMIUM

**Hazardous Waste Code:** D008  
**Waste Code Description:** LEAD

**Hazardous Waste Code:** D009  
**Waste Code Description:** MERCURY

**Hazardous Waste Handler Details**

**Sequence No:** 7  
**Receive Date:** 20120229  
**Handler Name:** CONTAINER COMPLIANCE CORP  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator  
**Source Type:** Annual/Biennial Report update with Notification

**Waste Code Details**

**Hazardous Waste Code:** D007  
**Waste Code Description:** CHROMIUM

**Hazardous Waste Code:** D002  
**Waste Code Description:** CORROSIVE WASTE

**Hazardous Waste Code:** D008  
**Waste Code Description:** LEAD

**Hazardous Waste Handler Details**

**Sequence No:** 2  
**Receive Date:** 20070516  
**Handler Name:** CONTAINER COMPLIANCE CORP  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator  
**Source Type:** Implementer

**Hazardous Waste Handler Details**

**Sequence No:** 8  
**Receive Date:** 20140616  
**Handler Name:** CONTAINER COMPLIANCE CORP  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator  
**Source Type:** Annual/Biennial Report update with Notification

**Waste Code Details**

**Hazardous Waste Code:** D002  
**Waste Code Description:** CORROSIVE WASTE

**Hazardous Waste Code:** D008  
**Waste Code Description:** LEAD

**Hazardous Waste Code:** D007  
**Waste Code Description:** CHROMIUM

**Hazardous Waste Handler Details**

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Sequence No:</b>		4				
<b>Receive Date:</b>		20140818				
<b>Handler Name:</b>		CONTAINER COMPLIANCE CORP				
<b>Federal Waste Generator Code:</b>		1				
<b>Generator Code Description:</b>		Large Quantity Generator				
<b>Source Type:</b>		Implementer				
<b><u>Waste Code Details</u></b>						
<b>Hazardous Waste Code:</b>		D007				
<b>Waste Code Description:</b>		CHROMIUM				
<b>Hazardous Waste Code:</b>		D002				
<b>Waste Code Description:</b>		CORROSIVE WASTE				
<b>Hazardous Waste Code:</b>		D008				
<b>Waste Code Description:</b>		LEAD				
<b><u>Hazardous Waste Handler Details</u></b>						
<b>Sequence No:</b>		2				
<b>Receive Date:</b>		19920220				
<b>Handler Name:</b>		BEAZER EAST, INC.				
<b>Federal Waste Generator Code:</b>		N				
<b>Generator Code Description:</b>		Not a Generator, Verified				
<b>Source Type:</b>		Annual/Biennial Report				
<b><u>Hazardous Waste Handler Details</u></b>						
<b>Sequence No:</b>		3				
<b>Receive Date:</b>		20000221				
<b>Handler Name:</b>		CONTAINER COMPLIANCE CORP				
<b>Federal Waste Generator Code:</b>		1				
<b>Generator Code Description:</b>		Large Quantity Generator				
<b>Source Type:</b>		Annual/Biennial Report				
<b><u>Hazardous Waste Handler Details</u></b>						
<b>Sequence No:</b>		1				
<b>Receive Date:</b>		20040226				
<b>Handler Name:</b>		CONTAINER COMPLIANCE CORP				
<b>Federal Waste Generator Code:</b>		1				
<b>Generator Code Description:</b>		Large Quantity Generator				
<b>Source Type:</b>		Annual/Biennial Report update with Notification				
<b><u>Waste Code Details</u></b>						
<b>Hazardous Waste Code:</b>		D001				
<b>Waste Code Description:</b>		IGNITABLE WASTE				
<b>Hazardous Waste Code:</b>		D007				
<b>Waste Code Description:</b>		CHROMIUM				
<b>Hazardous Waste Code:</b>		D039				
<b>Waste Code Description:</b>		TETRACHLOROETHYLENE				
<b>Hazardous Waste Code:</b>		D002				
<b>Waste Code Description:</b>		CORROSIVE WASTE				
<b>Hazardous Waste Code:</b>		D035				
<b>Waste Code Description:</b>		METHYL ETHYL KETONE				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**Hazardous Waste Handler Details**

**Sequence No:** 1  
**Receive Date:** 19980311  
**Handler Name:** CONTAINER COMPLIANCE CORP  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator  
**Source Type:** Notification

**Waste Code Details**

**Hazardous Waste Code:** D002  
**Waste Code Description:** CORROSIVE WASTE  
  
**Hazardous Waste Code:** D008  
**Waste Code Description:** LEAD  
  
**Hazardous Waste Code:** D039  
**Waste Code Description:** TETRACHLOROETHYLENE  
  
**Hazardous Waste Code:** D001  
**Waste Code Description:** IGNITABLE WASTE  
  
**Hazardous Waste Code:** D006  
**Waste Code Description:** CADMIUM  
  
**Hazardous Waste Code:** D007  
**Waste Code Description:** CHROMIUM  
  
**Hazardous Waste Code:** D035  
**Waste Code Description:** METHYL ETHYL KETONE  
  
**Hazardous Waste Code:** D040  
**Waste Code Description:** TRICHLOROETHYLENE

**Owner/Operator Details**

<b>Owner/Operator Ind:</b> Current Operator	<b>Street No:</b>
<b>Type:</b> Private	<b>Street 1:</b> KOPPERS BUILDING
<b>Name:</b> KOPPERS CO INC	<b>Street 2:</b>
<b>Date Became Current:</b>	<b>City:</b> CITY NOT REPORTED
<b>Date Ended Current:</b>	<b>State:</b> PA
<b>Phone:</b> 412-227-2000	<b>Country:</b>
<b>Source Type:</b> Part A	<b>Zip Code:</b> 99998

<b>Owner/Operator Ind:</b> Current Operator	<b>Street No:</b>
<b>Type:</b> Private	<b>Street 1:</b> 5151 DENISON AVE
<b>Name:</b> CONTAINER COMPLIANCE CORP	<b>Street 2:</b>
<b>Date Became Current:</b> 20000720	<b>City:</b> CLEVELAND
<b>Date Ended Current:</b>	<b>State:</b> OH
<b>Phone:</b> 216-961-0035	<b>Country:</b> US
<b>Source Type:</b> Annual/Biennial Report update with Notification	<b>Zip Code:</b> 44102

<b>Owner/Operator Ind:</b> Current Owner	<b>Street No:</b>
<b>Type:</b> Private	<b>Street 1:</b> ONE OXFORD CENTRE SUITE 3000
<b>Name:</b> BEAZER INC(PROPERTY)	<b>Street 2:</b>
<b>Date Became Current:</b>	<b>City:</b> PITTSBURGH
<b>Date Ended Current:</b>	<b>State:</b> PA
<b>Phone:</b> 412-208-8863	<b>Country:</b>
<b>Source Type:</b> Notification	<b>Zip Code:</b> 15219-6401

<b>Owner/Operator Ind:</b> Current Owner	<b>Street No:</b>
<b>Type:</b> Private	<b>Street 1:</b> 5151 DENISON AVE
<b>Name:</b> CONTAINER COMPLIANCE CORP	<b>Street 2:</b>
<b>Date Became Current:</b>	<b>City:</b> CLEVELAND
<b>Date Ended Current:</b>	<b>State:</b> OH

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Phone:</b>					<b>Country:</b>	US
<b>Source Type:</b>	Annual/Biennial Report				<b>Zip Code:</b>	44102
<b>Owner/Operator Ind:</b>	Current Owner				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b>	5151 DENISON AVE
<b>Name:</b>	5151 DENISON LLC				<b>Street 2:</b>	
<b>Date Became Current:</b>	20000720				<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>					<b>State:</b>	OH
<b>Phone:</b>	216-961-0035				<b>Country:</b>	US
<b>Source Type:</b>	Implementer				<b>Zip Code:</b>	44102
<b>Owner/Operator Ind:</b>	Current Operator				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b>	5151 DENISON AVE
<b>Name:</b>	CONTAINER COMPLIANCE CORP				<b>Street 2:</b>	
<b>Date Became Current:</b>	20000720				<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>					<b>State:</b>	OH
<b>Phone:</b>					<b>Country:</b>	US
<b>Source Type:</b>	Implementer				<b>Zip Code:</b>	44102
<b>Owner/Operator Ind:</b>	Current Owner				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b>	5151 DENISON AVE
<b>Name:</b>	CONTAINER COMPLIANCE CORP				<b>Street 2:</b>	
<b>Date Became Current:</b>	20000720				<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>					<b>State:</b>	OH
<b>Phone:</b>	216-961-0035				<b>Country:</b>	US
<b>Source Type:</b>	Implementer				<b>Zip Code:</b>	44102
<b>Owner/Operator Ind:</b>	Current Owner				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b>	5151 DENISON AVE
<b>Name:</b>	CONTAINER COMPLIANCE				<b>Street 2:</b>	
<b>Date Became Current:</b>	20020901				<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>					<b>State:</b>	OH
<b>Phone:</b>					<b>Country:</b>	US
<b>Source Type:</b>	Annual/Biennial Report update with Notification				<b>Zip Code:</b>	44102
<b>Owner/Operator Ind:</b>	Current Owner				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b>	5151 DENISON AVE
<b>Name:</b>	5151 DENNISON LLC				<b>Street 2:</b>	
<b>Date Became Current:</b>	20000720				<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>					<b>State:</b>	OH
<b>Phone:</b>	216-961-0035				<b>Country:</b>	US
<b>Source Type:</b>	Annual/Biennial Report update with Notification				<b>Zip Code:</b>	44102
<b>Owner/Operator Ind:</b>	Current Operator				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b>	5151 DENISON AVE
<b>Name:</b>	CONTAINER COMPLIANCE				<b>Street 2:</b>	
<b>Date Became Current:</b>	20000720				<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>					<b>State:</b>	OH
<b>Phone:</b>	216-961-0035				<b>Country:</b>	US
<b>Source Type:</b>	Annual/Biennial Report update with Notification				<b>Zip Code:</b>	44102
<b>Owner/Operator Ind:</b>	Current Owner				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b>	5151 DENISON AVENUE
<b>Name:</b>	5151 DENNISON LLC				<b>Street 2:</b>	
<b>Date Became Current:</b>	20000720				<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>					<b>State:</b>	OH
<b>Phone:</b>	216-961-0035				<b>Country:</b>	US
<b>Source Type:</b>	Annual/Biennial Report update with Notification				<b>Zip Code:</b>	44102
<b>Owner/Operator Ind:</b>	Current Operator				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b>	5151 DENISON AVE
<b>Name:</b>	CONTAINER COMPLIANCE				<b>Street 2:</b>	
<b>Date Became Current:</b>	20000720				<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>					<b>State:</b>	OH
<b>Phone:</b>	216-961-0035				<b>Country:</b>	US
<b>Source Type:</b>	Implementer				<b>Zip Code:</b>	44102
<b>Owner/Operator Ind:</b>	Current Owner				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b>	5151 DENISON AVE

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Name:</b>	CONTAINER COMPLIANCE CORP				<b>Street 2:</b>	
<b>Date Became Current:</b>	19920317				<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>					<b>State:</b>	OH
<b>Phone:</b>					<b>Country:</b>	US
<b>Source Type:</b>	Annual/Biennial Report update with Notification				<b>Zip Code:</b>	44102
<b>Owner/Operator Ind:</b>	Current Operator				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b>	5151 DENISON AVE
<b>Name:</b>	CONTAINER COMPLIANCE CORP				<b>Street 2:</b>	
<b>Date Became Current:</b>	19920317				<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>					<b>State:</b>	OH
<b>Phone:</b>					<b>Country:</b>	US
<b>Source Type:</b>	Annual/Biennial Report update with Notification				<b>Zip Code:</b>	44102
<b>Owner/Operator Ind:</b>	Current Operator				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b>	5151 DENISON AVENUE
<b>Name:</b>	CONTAINER COMPLIANCE CORP				<b>Street 2:</b>	
<b>Date Became Current:</b>	20000720				<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>					<b>State:</b>	OH
<b>Phone:</b>	216-961-0035				<b>Country:</b>	US
<b>Source Type:</b>	Annual/Biennial Report update with Notification				<b>Zip Code:</b>	44102
<b>Owner/Operator Ind:</b>	Current Owner				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b>	5151 DENISON AVE
<b>Name:</b>	5151 DENISON LLC				<b>Street 2:</b>	
<b>Date Became Current:</b>	20020719				<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>					<b>State:</b>	OH
<b>Phone:</b>					<b>Country:</b>	US
<b>Source Type:</b>	Annual/Biennial Report update with Notification				<b>Zip Code:</b>	44102
<b>Owner/Operator Ind:</b>	Current Operator				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b>	5151 DENISON AVE
<b>Name:</b>	CONTAINER COMPLIANCE CORP				<b>Street 2:</b>	
<b>Date Became Current:</b>					<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>					<b>State:</b>	OH
<b>Phone:</b>					<b>Country:</b>	US
<b>Source Type:</b>	Annual/Biennial Report				<b>Zip Code:</b>	44102
<b>Owner/Operator Ind:</b>	Current Owner				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b>	5151 DENISON AVE
<b>Name:</b>	5151 DENISON LLC				<b>Street 2:</b>	
<b>Date Became Current:</b>	20000720				<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>					<b>State:</b>	OH
<b>Phone:</b>	216-961-0035				<b>Country:</b>	US
<b>Source Type:</b>	Notification				<b>Zip Code:</b>	44102
<b>Owner/Operator Ind:</b>	Current Owner				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b>	5151 DENISON AVE
<b>Name:</b>	5151 DENISON LLC				<b>Street 2:</b>	
<b>Date Became Current:</b>	20000720				<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>					<b>State:</b>	OH
<b>Phone:</b>					<b>Country:</b>	US
<b>Source Type:</b>	Annual/Biennial Report update with Notification				<b>Zip Code:</b>	44102
<b>Owner/Operator Ind:</b>	Current Operator				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b>	5151 DENISON AVE
<b>Name:</b>	CONTAINER COMPLIANCE CORP				<b>Street 2:</b>	
<b>Date Became Current:</b>	20000720				<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>					<b>State:</b>	OH
<b>Phone:</b>					<b>Country:</b>	US
<b>Source Type:</b>	Annual/Biennial Report update with Notification				<b>Zip Code:</b>	44102
<b>Owner/Operator Ind:</b>	Current Owner				<b>Street No:</b>	
<b>Type:</b>	Private				<b>Street 1:</b>	KOPPERS BUILDING
<b>Name:</b>	KOPPERS CO INC				<b>Street 2:</b>	
<b>Date Became Current:</b>					<b>City:</b>	PITTSBURG
<b>Date Ended Current:</b>					<b>State:</b>	PA
<b>Phone:</b>	412-227-2000				<b>Country:</b>	
<b>Source Type:</b>	Notification				<b>Zip Code:</b>	15219

<b>Owner/Operator Ind:</b>	Current Operator	<b>Street No:</b>	
<b>Type:</b>	Private	<b>Street 1:</b>	5151 DENISON AVE
<b>Name:</b>	CONTAINER COMPLIANCE	<b>Street 2:</b>	
<b>Date Became Current:</b>	20020901	<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>		<b>State:</b>	OH
<b>Phone:</b>		<b>Country:</b>	US
<b>Source Type:</b>	Annual/Biennial Report update with Notification	<b>Zip Code:</b>	44102

<b>Owner/Operator Ind:</b>	Current Operator	<b>Street No:</b>	
<b>Type:</b>	Private	<b>Street 1:</b>	5151 DENISON AVE
<b>Name:</b>	CONTAINER COMPLIANCE CORP	<b>Street 2:</b>	
<b>Date Became Current:</b>	20000720	<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>		<b>State:</b>	OH
<b>Phone:</b>	216-961-0035	<b>Country:</b>	US
<b>Source Type:</b>	Implementer	<b>Zip Code:</b>	44102

<b>Owner/Operator Ind:</b>	Current Operator	<b>Street No:</b>	
<b>Type:</b>	Private	<b>Street 1:</b>	5151 DENISON AVE
<b>Name:</b>	CONTAINER COMPLIANCE CORP	<b>Street 2:</b>	
<b>Date Became Current:</b>	20000720	<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>		<b>State:</b>	OH
<b>Phone:</b>		<b>Country:</b>	US
<b>Source Type:</b>	Notification	<b>Zip Code:</b>	44102

<b>Owner/Operator Ind:</b>	Current Owner	<b>Street No:</b>	
<b>Type:</b>	Private	<b>Street 1:</b>	5151 DENISON AVE
<b>Name:</b>	5151 DENISON LLC	<b>Street 2:</b>	
<b>Date Became Current:</b>	20020719	<b>City:</b>	CLEVELAND
<b>Date Ended Current:</b>		<b>State:</b>	OH
<b>Phone:</b>		<b>Country:</b>	US
<b>Source Type:</b>	Implementer	<b>Zip Code:</b>	44102

**Historical Handler Details**

<b>Receive Dt:</b>	20200203
<b>Generator Code Description:</b>	Large Quantity Generator
<b>Handler Name:</b>	CONTAINER COMPLIANCE CORPORATION

<b>Receive Dt:</b>	20140818
<b>Generator Code Description:</b>	Large Quantity Generator
<b>Handler Name:</b>	CONTAINER COMPLIANCE CORP

<b>Receive Dt:</b>	19961025
<b>Generator Code Description:</b>	Not a Generator, Verified
<b>Handler Name:</b>	CONTAINER COMPLIANCE CORP

<b>Receive Dt:</b>	20170223
<b>Generator Code Description:</b>	Large Quantity Generator
<b>Handler Name:</b>	CONTAINER COMPLIANCE CORP

<b>Receive Dt:</b>	20030228
<b>Generator Code Description:</b>	Large Quantity Generator
<b>Handler Name:</b>	CONTAINER COMPLIANCE CORP

<b>Receive Dt:</b>	20090716
<b>Generator Code Description:</b>	Large Quantity Generator
<b>Handler Name:</b>	CONTAINER COMPLIANCE CORP

<b>Receive Dt:</b>	19980311
<b>Generator Code Description:</b>	Large Quantity Generator
<b>Handler Name:</b>	CONTAINER COMPLIANCE CORP

<b>Receive Dt:</b>	20120229
<b>Generator Code Description:</b>	Large Quantity Generator
<b>Handler Name:</b>	CONTAINER COMPLIANCE CORP

<b>Receive Dt:</b>	19920220
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Generator Code Description:</b>		Not a Generator, Verified				
<b>Handler Name:</b>		BEAZER EAST, INC.				
<b>Receive Dt:</b>		20000221				
<b>Generator Code Description:</b>		Large Quantity Generator				
<b>Handler Name:</b>		CONTAINER COMPLIANCE CORP				
<b>Receive Dt:</b>		20140616				
<b>Generator Code Description:</b>		Large Quantity Generator				
<b>Handler Name:</b>		CONTAINER COMPLIANCE CORP				
<b>Receive Dt:</b>		20060301				
<b>Generator Code Description:</b>		Large Quantity Generator				
<b>Handler Name:</b>		CONTAINER COMPLIANCE CORP				
<b>Receive Dt:</b>		20040226				
<b>Generator Code Description:</b>		Large Quantity Generator				
<b>Handler Name:</b>		CONTAINER COMPLIANCE CORP				
<b>Receive Dt:</b>		20050222				
<b>Generator Code Description:</b>		Large Quantity Generator				
<b>Handler Name:</b>		CONTAINER COMPLIANCE CORP				
<b>Receive Dt:</b>		20070516				
<b>Generator Code Description:</b>		Large Quantity Generator				
<b>Handler Name:</b>		CONTAINER COMPLIANCE CORP				
<b>Receive Dt:</b>		19900301				
<b>Generator Code Description:</b>		Large Quantity Generator				
<b>Handler Name:</b>		THIEM CORP				
<b>Receive Dt:</b>		20100412				
<b>Generator Code Description:</b>		Large Quantity Generator				
<b>Handler Name:</b>		CONTAINER COMPLIANCE CORP				
<b>Receive Dt:</b>		20070530				
<b>Generator Code Description:</b>		Large Quantity Generator				
<b>Handler Name:</b>		CONTAINER COMPLIANCE CORP				
<b>Receive Dt:</b>		20160229				
<b>Generator Code Description:</b>		Large Quantity Generator				
<b>Handler Name:</b>		CONTAINER COMPLIANCE CORP				
<b>Receive Dt:</b>		20090303				
<b>Generator Code Description:</b>		Small Quantity Generator				
<b>Handler Name:</b>		CONTAINER COMPLIANCE CORP				
<b>Receive Dt:</b>		20021016				
<b>Generator Code Description:</b>		Large Quantity Generator				
<b>Handler Name:</b>		CONTAINER COMPLIANCE CORP				
<b>Receive Dt:</b>		19801119				
<b>Generator Code Description:</b>		Not a Generator, Verified				
<b>Handler Name:</b>		CONTAINER COMPLIANCE CORP				

[56](#)    2 of 2    **SE**    **0.83 / 4,406.13**    **716.62 / 17**    **Parr Inc West, Cleveland - Denison Ave**    **DERR**  
**5151 Denison Ave**  
**Cleveland OH 44102**

<b>DERR ID:</b>	218001903	<b>County:</b>	Cuyahoga
<b>CERCLIS ID:</b>	OHD060431947	<b>District:</b>	NEDO
<b>Program:</b>	VAP	<b>Latitude:</b>	41.455194
<b>Program Desc:</b>	Voluntary Action Program	<b>Longitude:</b>	-81.724942
<b>Address (REST):</b>	5151 Denison Ave	<b>Cerclis iID (REST):</b>	OHD060431947
<b>City (REST):</b>	Cleveland	<b>OepaDstrct (REST):</b>	NEDO
<b>Zip (REST):</b>	44102	<b>Activity (REST):</b>	VAP
<b>County (REST):</b>	Cuyahoga	<b>DERR ID (REST):</b>	218001903

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>LatDd Begin (REST):</b>	41.455194				<b>LonDd Begin (REST):</b> -81.724942	
<b>Source:</b>	Ohio EPA: DERR Database; REST Services Directory: DERR Database (OEPA-DERR)					
<b>Name (REST):</b>	Parr Inc West, Cleveland - Denison Ave					

**REST Services Directory: DERR Database (OEPA-DERR)**

<b>Cerclis ID:</b>	OHD060431947	<b>Address:</b>	5151 Denison Ave
<b>Alias:</b>		<b>City:</b>	Cleveland
<b>Activity:</b>	VAP	<b>Zip:</b>	44102
<b>ODoT District:</b>	12	<b>Latitude DD Begin:</b>	41.455194
<b>OEPA District:</b>	NEDO	<b>Longitude DD Begin:</b>	-81.724942
<b>County:</b>	Cuyahoga		
<b>Name:</b>	Parr Inc West, Cleveland - Denison Ave		

<a href="#">57</a>	1 of 1	<b>ENE</b>	<b>0.87 / 4,585.60</b>	<b>679.71 / -20</b>	<b>Ameri-Con Ashbury, Cleveland 4721-4805 Fenwick Ave Cleveland OH 44102</b>	<b>DERR</b>
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<b>DERR ID:</b>	218002240	<b>County:</b>	Cuyahoga
<b>CERCLIS ID:</b>		<b>District:</b>	NEDO
<b>Program:</b>	VAP	<b>Latitude:</b>	41.473855
<b>Program Desc:</b>	Voluntary Action Program	<b>Longitude:</b>	-81.720433
<b>Address (REST):</b>	4721-4805 Fenwick Ave	<b>Cerclis IID (REST):</b>	
<b>City (REST):</b>	Cleveland	<b>OepaDstrct (REST):</b>	NEDO
<b>Zip (REST):</b>	44102	<b>Activity (REST):</b>	VAP
<b>County (REST):</b>	Cuyahoga	<b>DERR ID (REST):</b>	218002240
<b>LatDd Begin (REST):</b>	41.473855	<b>LonDd Begin (REST):</b>	-81.720433
<b>Source:</b>	Ohio EPA: DERR Database; REST Services Directory: DERR Database (OEPA-DERR)		
<b>Name (REST):</b>	Ameri-Con Ashbury, Cleveland		

**REST Services Directory: DERR Database (OEPA-DERR)**

<b>Cerclis ID:</b>		<b>Address:</b>	4721-4805 Fenwick Ave
<b>Alias:</b>		<b>City:</b>	Cleveland
<b>Activity:</b>	VAP	<b>Zip:</b>	44102
<b>ODoT District:</b>	12	<b>Latitude DD Begin:</b>	41.473855
<b>OEPA District:</b>	NEDO	<b>Longitude DD Begin:</b>	-81.720433
<b>County:</b>	Cuyahoga		
<b>Name:</b>	Ameri-Con Ashbury, Cleveland		

<a href="#">58</a>	1 of 1	<b>NNW</b>	<b>0.89 / 4,720.42</b>	<b>672.84 / -27</b>	<b>8001 Franklin Ave, Cleveland 8001 Franklin Ave Cleveland OH 44102-2831</b>	<b>DERR</b>
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<b>DERR ID:</b>	218002418	<b>County:</b>	Cuyahoga
<b>CERCLIS ID:</b>		<b>District:</b>	NEDO
<b>Program:</b>	COF	<b>Latitude:</b>	41.4788919773
<b>Program Desc:</b>	Clean Ohio Fund	<b>Longitude:</b>	-81.7405362601
<b>Address (REST):</b>	8001 Franklin Ave	<b>Cerclis IID (REST):</b>	
<b>City (REST):</b>	Cleveland	<b>OepaDstrct (REST):</b>	NEDO
<b>Zip (REST):</b>	44102-2831	<b>Activity (REST):</b>	COF
<b>County (REST):</b>	Cuyahoga	<b>DERR ID (REST):</b>	218002418
<b>LatDd Begin (REST):</b>	41.47889198	<b>LonDd Begin (REST):</b>	-81.74053626
<b>Source:</b>	Ohio EPA: DERR Database; REST Services Directory: DERR Database (OEPA-DERR)		
<b>Name (REST):</b>	8001 Franklin Ave, Cleveland		

**REST Services Directory: DERR Database (OEPA-DERR)**

<b>Cerclis ID:</b>		<b>Address:</b>	8001 Franklin Ave
<b>Alias:</b>		<b>City:</b>	Cleveland
<b>Activity:</b>	COF	<b>Zip:</b>	44102-2831
<b>ODoT District:</b>	12	<b>Latitude DD Begin:</b>	41.47889198
<b>OEPA District:</b>	NEDO	<b>Longitude DD Begin:</b>	-81.74053626
<b>County:</b>	Cuyahoga		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Name: 8001 Franklin Ave, Cleveland

<a href="#">59</a>	1 of 1	SE	0.94 / 4,939.09	703.68 / 4	Tradex Pkwy Site, Cleveland 5250 Tradex Parkway Cleveland OH 44102-	DERR
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<b>DERR ID:</b>	218002604	<b>County:</b>	Cuyahoga
<b>CERCLIS ID:</b>		<b>District:</b>	NEDO
<b>Program:</b>	VAP	<b>Latitude:</b>	
<b>Program Desc:</b>	Voluntary Action Program	<b>Longitude:</b>	
<b>Address (REST):</b>	5250 Tradex Parkway	<b>Cerclis iID (REST):</b>	
<b>City (REST):</b>	Cleveland	<b>OepaDstrct (REST):</b>	NEDO
<b>Zip (REST):</b>	44102-	<b>Activity (REST):</b>	VAP
<b>County (REST):</b>	Cuyahoga	<b>DERR ID (REST):</b>	218002604
<b>LatDd Begin (REST):</b>	41.4534988	<b>LonDd Begin (REST):</b>	-81.7250671
<b>Source:</b>	Ohio EPA: DERR Database; REST Services Directory: DERR Database (OEPA-DERR)		
<b>Name (REST):</b>	Tradex Pkwy Site, Cleveland		

**REST Services Directory: DERR Database (OEPA-DERR)**

<b>Cerclis ID:</b>		<b>Address:</b>	5250 Tradex Parkway
<b>Alias:</b>		<b>City:</b>	Cleveland
<b>Activity:</b>	VAP	<b>Zip:</b>	44102-
<b>ODoT District:</b>	12	<b>Latitude DD Begin:</b>	41.4534988
<b>OEPA District:</b>	NEDO	<b>Longitude DD Begin:</b>	-81.7250671
<b>County:</b>	Cuyahoga		
<b>Name:</b>	Tradex Pkwy Site, Cleveland		

<a href="#">60</a>	1 of 1	NW	0.99 / 5,209.69	674.38 / -25	A Classic Steel Treating Inc former, Cleveland 9106 Madison Ave Cleveland OH 44102-2717	DERR
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<b>DERR ID:</b>	218003113	<b>County:</b>	Cuyahoga
<b>CERCLIS ID:</b>		<b>District:</b>	NEDO
<b>Program:</b>		<b>Latitude:</b>	
<b>Program Desc:</b>		<b>Longitude:</b>	
<b>Address (REST):</b>	9106 Madison Ave	<b>Cerclis iID (REST):</b>	
<b>City (REST):</b>	Cleveland	<b>OepaDstrct (REST):</b>	NEDO
<b>Zip (REST):</b>	44102-2717	<b>Activity (REST):</b>	
<b>County (REST):</b>	Cuyahoga	<b>DERR ID (REST):</b>	218003113
<b>LatDd Begin (REST):</b>	41.4771518	<b>LonDd Begin (REST):</b>	-81.7464258
<b>Source:</b>	Ohio EPA: DERR Database; REST Services Directory: DERR Database (OEPA-DERR)		
<b>Name (REST):</b>	A Classic Steel Treating Inc former, Cleveland		

**REST Services Directory: DERR Database (OEPA-DERR)**

<b>Cerclis ID:</b>		<b>Address:</b>	9106 Madison Ave
<b>Alias:</b>		<b>City:</b>	Cleveland
<b>Activity:</b>		<b>Zip:</b>	44102-2717
<b>ODoT District:</b>	12	<b>Latitude DD Begin:</b>	41.4771518
<b>OEPA District:</b>	NEDO	<b>Longitude DD Begin:</b>	-81.7464258
<b>County:</b>	Cuyahoga		
<b>Name:</b>	A Classic Steel Treating Inc former, Cleveland		

# Unplottable Summary

Total: 9 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
HIST TSCA	MCGEAN-ROHCO, INC.,		CLEVELAND OH	44105	822691007
HIST TSCA	MCGEAN-ROHCO, INC.,		CLEVELAND OH	44105	822690751
HIST TSCA	MCGEAN-ROHCO, INC.,		CLEVELAND OH	44105	822690728
HIST TSCA	MCGEAN-ROHCO, INC.,		CLEVELAND OH	44105	822686990
HIST TSCA	MCGEAN-ROHCO, INC.,		CLEVELAND OH	44105	822684109
HIST TSCA	MCGEAN-ROHCO, INC.,		CLEVELAND OH	44105	822701077
HIST TSCA	MCGEAN-ROHCO, INC.,		CLEVELAND OH	44105	822687570
RCRA NON GEN	HIGHWAY BRIDGE	INTERSTATE 90 SECTION 1270 <i>EPA Handler ID: OHR000104356</i>	CLEVELAND OH	44060	810410978
RCRA NON GEN	HIGHWAY BRIDGE	INTERSTATE 90 SECTION 1345 <i>EPA Handler ID: OHR000104364</i>	CLEVELAND OH	44060	810410979

# Unplottable Report

**Site:** MCGEAN-ROHCO, INC.,  
CLEVELAND OH 44105

HIST TSCA

**CAS Registry No:** 39430-51-8  
**Manufacturer:** Yes  
**Importer:** No  
**Site Limited:** Yes

## Chemical Information

**Chem Name:** Acetic acid, chromium salt, basic  
**Chemical Name Extension:**  
**Aggregated Prod Range:** < 500,000 lbs  
**Max Concentration Range:** Greater than 90%  
**Physical Form:** Dry Powder, Pellets or Large Crystals  
**Number of Sites:** 1 to 99  
**No of Workers Exposed:** 100 to 999  
**Industrial Use Available:** Yes  
**Commercial Use Available:** Yes

## Industrial Actions

**NACIS:** Other Basic Organic Chemical Manufacturing  
**Process Type:** Processing--incorporation into formulation, mixture, or reaction product  
**Industrial Function Category:** Other

**NACIS:** Other Basic Organic Chemical Manufacturing  
**Process Type:** Processing--incorporation into formulation, mixture, or reaction product  
**Industrial Function Category:** Coloring agents, pigments

## Production Category

**Production Category:** Paints and coatings  
**Maximum Concentration:** NRO  
**Used in a Children's Product:** NRO

**Production Category:** Fabrics, textiles and apparel  
**Maximum Concentration:** NRO  
**Used in a Children's Product:** NRO

**Production Category:** Other  
**Maximum Concentration:** NRO  
**Used in a Children's Product:** NRO

**Site:** MCGEAN-ROHCO, INC.,  
CLEVELAND OH 44105

HIST TSCA

**CAS Registry No:** 2495-39-8  
**Manufacturer:** Yes  
**Importer:** No  
**Site Limited:** Yes

## Chemical Information

**Chem Name:** 2-Propene-1-sulfonic acid, sodium salt (1:1)  
**Chemical Name Extension:**  
**Aggregated Prod Range:** 500,000 to < 1 million lbs

**Max Concentration Range:** 1% - 30%  
**Physical Form:** Liquid  
**Number of Sites:** 1 to 99  
**No of Workers Exposed:** 1 to 99  
**Industrial Use Available:** Yes  
**Commercial Use Available:** Yes

**Industrial Actions**

**NACIS:** Other Basic Organic Chemical Manufacturing  
**Process Type:** Processing--incorporation into formulation, mixture, or reaction product  
**Industrial Function Category:** Plating agents and metal surface treating agents

**NACIS:** Other Basic Organic Chemical Manufacturing  
**Process Type:** Processing--incorporation into formulation, mixture, or reaction product  
**Industrial Function Category:** Other

**Production Category**

**Production Category:** Fabrics, textiles and apparel  
**Maximum Concentration:** NRO  
**Used in a Children's Product:** NRO

**Production Category:** Other  
**Maximum Concentration:** NRO  
**Used in a Children's Product:** NRO

---

**Site:** MCGEAN-ROHCO, INC.,  
CLEVELAND OH 44105

HIST TSCA

**CAS Registry No:** 1641-36-7  
**Manufacturer:** Yes  
**Importer:** No  
**Site Limited:** Yes

**Chemical Information**

**Chem Name:** 1-Butanamine, acetate (1:1)  
**Chemical Name Extension:**  
**Aggregated Prod Range:** < 500,000 lbs  
**Max Concentration Range:** Greater than 90%  
**Physical Form:** Liquid  
**Number of Sites:** 1 to 99  
**No of Workers Exposed:** 1 to 99  
**Industrial Use Available:** Yes  
**Commercial Use Available:** Yes

**Industrial Actions**

**NACIS:** NRO  
**Process Type:** NRO  
**Industrial Function Category:** NRO

**Production Category**

**Production Category:** NRO  
**Maximum Concentration:** NRO  
**Used in a Children's Product:** NRO

---

**Site:** MCGEAN-ROHCO, INC.,  
CLEVELAND OH 44105

HIST TSCA

**CAS Registry No:** 15990-43-9  
**Manufacturer:** Yes  
**Importer:** No

Site Limited: Yes

**Chemical Information**

Chem Name: Pyridinium, 3-carboxy-1-(phenylmethyl)-, inner salt  
Chemical Name Extension:  
Aggregated Prod Range: < 500,000 lbs  
Max Concentration Range: 31% - 60%  
Physical Form: Liquid  
Number of Sites: 1 to 99  
No of Workers Exposed: 1 to 99  
Industrial Use Available: Yes  
Commercial Use Available: Yes

**Industrial Actions**

NACIS: NRO  
Process Type: NRO  
Industrial Function Category: NRO

**Production Category**

Production Category: NRO  
Maximum Concentration: NRO  
Used in a Children's Product: NRO

---

Site: MCGEAN-ROHCO, INC.,  
CLEVELAND OH 44105

HIST TSCA

CAS Registry No: 13106-44-0  
Manufacturer: Yes  
Importer: No  
Site Limited: Yes

**Chemical Information**

Chem Name: Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propen-1-yl)oxy]-, methyl sulfate (1:1)  
Chemical Name Extension:  
Aggregated Prod Range: < 500,000 lbs  
Max Concentration Range: 61% - 90%  
Physical Form: Liquid  
Number of Sites: 1 to 99  
No of Workers Exposed: 1 to 99  
Industrial Use Available: Yes  
Commercial Use Available: Yes

**Industrial Actions**

NACIS: NRO  
Process Type: NRO  
Industrial Function Category: NRO

**Production Category**

Production Category: NRO  
Maximum Concentration: NRO  
Used in a Children's Product: NRO

---

Site: MCGEAN-ROHCO, INC.,  
CLEVELAND OH 44105

HIST TSCA

CAS Registry No: 68555-36-2  
Manufacturer: Yes  
Importer: No

Site Limited: Yes

**Chemical Information**

Chem Name: Urea, N,N'-bis[3-(dimethylamino)propyl]-, polymer with 1,1'-oxybis[2-chloroethane]  
Chemical Name Extension:  
Aggregated Prod Range: < 500,000 lbs  
Max Concentration Range: 31% - 60%  
Physical Form: Liquid  
Number of Sites: 1 to 99  
No of Workers Exposed: 1 to 99  
Industrial Use Available: Yes  
Commercial Use Available: Yes

**Industrial Actions**

NACIS: NRO  
Process Type: NRO  
Industrial Function Category: NRO

**Production Category**

Production Category: NRO  
Maximum Concentration: NRO  
Used in a Children's Product: NRO

---

Site: MCGEAN-ROHCO, INC.,  
CLEVELAND OH 44105

HIST TSCA

CAS Registry No: 1066-30-4  
Manufacturer: Yes  
Importer: No  
Site Limited: Yes

**Chemical Information**

Chem Name: Acetic acid, chromium(3+) salt (3:1)  
Chemical Name Extension:  
Aggregated Prod Range: < 500,000 lbs  
Max Concentration Range: 61% - 90%  
Physical Form: Liquid  
Number of Sites: 1 to 99  
No of Workers Exposed: 1 to 99  
Industrial Use Available: Yes  
Commercial Use Available: Yes

**Industrial Actions**

NACIS: NRO  
Process Type: NRO  
Industrial Function Category: NRO

**Production Category**

Production Category: NRO  
Maximum Concentration: NRO  
Used in a Children's Product: NRO

---

Site: HIGHWAY BRIDGE  
INTERSTATE 90 SECTION 1270 CLEVELAND OH 44060

RCRA NON GEN

EPA Handler ID: OHR000104356  
Gen Status Universe: No Report  
Contact Name: RANDY S OVER

**Contact Address:** P O BOX 258003 , , GARFIELD HEIGHTS , OH, 44125 , US  
**Contact Phone No and Ext:** 216-581-2100  
**Contact Email:**  
**Contact Country:** US  
**County Name:** CUYAHOGA  
**EPA Region:** 05  
**Land Type:** State  
**Receive Date:** 20030224  
**Location Latitude:**  
**Location Longitude:**

#### Violation/Evaluation Summary

**Note:** NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

#### Handler Summary

**Importer Activity:** No  
**Mixed Waste Generator:** No  
**Transporter Activity:** No  
**Transfer Facility:** No  
**Onsite Burner Exemption:** No  
**Furnace Exemption:** No  
**Underground Injection Activity:** No  
**Commercial TSD:** No  
**Used Oil Transporter:** No  
**Used Oil Transfer Facility:** No  
**Used Oil Processor:** No  
**Used Oil Refiner:** No  
**Used Oil Burner:** No  
**Used Oil Market Burner:** No  
**Used Oil Spec Marketer:** No

#### Hazardous Waste Handler Details

**Sequence No:** 1  
**Receive Date:** 20020624  
**Handler Name:** ODOT HIGHWAY BRIDGE  
**Source Type:** Annual/Biennial Report  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator

#### Hazardous Waste Handler Details

**Sequence No:** 1  
**Receive Date:** 20010710  
**Handler Name:** HIGHWAY BRIDGE  
**Source Type:** Notification  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator

#### Waste Code Details

**Hazardous Waste Code:** D007  
**Waste Code Description:** CHROMIUM

#### Hazardous Waste Handler Details

**Sequence No:** 2  
**Receive Date:** 20030224  
**Handler Name:** HIGHWAY BRIDGE  
**Source Type:** Notification  
**Federal Waste Generator Code:** N  
**Generator Code Description:** Not a Generator, Verified

**Owner/Operator Details**

**Owner/Operator Ind:** Current Owner  
**Type:** State  
**Name:** OHIO DEPARTMENT OF TRANS  
**Date Became Current:**  
**Date Ended Current:**  
**Phone:** 216-581-2100  
**Source Type:** Notification

**Street No:**  
**Street 1:** P O BOX 258003  
**Street 2:**  
**City:** GARFIELD HEIGHTS  
**State:** OH  
**Country:**  
**Zip Code:** 44125

**Owner/Operator Ind:** Current Operator  
**Type:** Private  
**Name:** ODOT  
**Date Became Current:** 19500101  
**Date Ended Current:**  
**Phone:**  
**Source Type:** Notification

**Street No:**  
**Street 1:**  
**Street 2:**  
**City:**  
**State:**  
**Country:** US  
**Zip Code:**

**Owner/Operator Ind:** Current Owner  
**Type:** State  
**Name:** OHIO DEPARTMENT OF TRANSPORTATION  
**Date Became Current:**  
**Date Ended Current:**  
**Phone:**  
**Source Type:** Annual/Biennial Report

**Street No:**  
**Street 1:** 5500 TRANSPORTATION BOULEVARD  
**Street 2:**  
**City:** GARFIELD HEIGHTS  
**State:** OH  
**Country:** US  
**Zip Code:** 44125

**Historical Handler Details**

**Receive Dt:** 20020624  
**Generator Code Description:** Large Quantity Generator  
**Handler Name:** ODOT HIGHWAY BRIDGE

**Receive Dt:** 20010710  
**Generator Code Description:** Large Quantity Generator  
**Handler Name:** HIGHWAY BRIDGE

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**Site:** **HIGHWAY BRIDGE**  
**INTERSTATE 90 SECTION 1345 CLEVELAND OH 44060**

RCRA NON GEN

**EPA Handler ID:** OHR000104364  
**Gen Status Universe:** No Report  
**Contact Name:** RANDY OVER  
**Contact Address:** P O BOX 258003 , , GARFIELD HEIGHTS , OH, 44125 , US  
**Contact Phone No and Ext:** 216-581-2100  
**Contact Email:**  
**Contact Country:** US  
**County Name:** CUYAHOGA  
**EPA Region:** 05  
**Land Type:** State  
**Receive Date:** 20030224  
**Location Latitude:**  
**Location Longitude:**

**Violation/Evaluation Summary**

**Note:** NO RECORDS: As of Sep 2022, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

**Handler Summary**

**Importer Activity:** No  
**Mixed Waste Generator:** No  
**Transporter Activity:** No  
**Transfer Facility:** No  
**Onsite Burner Exemption:** No  
**Furnace Exemption:** No  
**Underground Injection Activity:** No

**Commercial TSD:** No  
**Used Oil Transporter:** No  
**Used Oil Transfer Facility:** No  
**Used Oil Processor:** No  
**Used Oil Refiner:** No  
**Used Oil Burner:** No  
**Used Oil Market Burner:** No  
**Used Oil Spec Marketer:** No

**Hazardous Waste Handler Details**

**Sequence No:** 1  
**Receive Date:** 20020618  
**Handler Name:** ODOT HIGHWAY BRIDGE  
**Source Type:** Annual/Biennial Report  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator

**Hazardous Waste Handler Details**

**Sequence No:** 1  
**Receive Date:** 20010710  
**Handler Name:** HIGHWAY BRIDGE  
**Source Type:** Notification  
**Federal Waste Generator Code:** 1  
**Generator Code Description:** Large Quantity Generator

**Waste Code Details**

**Hazardous Waste Code:** D008  
**Waste Code Description:** LEAD

**Hazardous Waste Handler Details**

**Sequence No:** 2  
**Receive Date:** 20030224  
**Handler Name:** HIGHWAY BRIDGE  
**Source Type:** Notification  
**Federal Waste Generator Code:** N  
**Generator Code Description:** Not a Generator, Verified

**Owner/Operator Details**

<b>Owner/Operator Ind:</b> Current Owner	<b>Street No:</b>
<b>Type:</b> State	<b>Street 1:</b> 5500 TRANSPORTATION BOULEVARD
<b>Name:</b> OHIO DEPARTMENT OF TRANSPORTATION	<b>Street 2:</b>
<b>Date Became Current:</b>	<b>City:</b> GARFIELD HEIGHTS
<b>Date Ended Current:</b>	<b>State:</b> OH
<b>Phone:</b>	<b>Country:</b> US
<b>Source Type:</b> Annual/Biennial Report	<b>Zip Code:</b> 44125
<b>Owner/Operator Ind:</b> Current Owner	<b>Street No:</b>
<b>Type:</b> State	<b>Street 1:</b> P O BOX 258003
<b>Name:</b> OHIO DEPARTMENT OF TRANS	<b>Street 2:</b>
<b>Date Became Current:</b>	<b>City:</b> GARFIELD HEIGHTS
<b>Date Ended Current:</b>	<b>State:</b> OH
<b>Phone:</b> 216-581-2100	<b>Country:</b>
<b>Source Type:</b> Notification	<b>Zip Code:</b> 44125
<b>Owner/Operator Ind:</b> Current Operator	<b>Street No:</b>
<b>Type:</b> Private	<b>Street 1:</b>
<b>Name:</b> ODOT	<b>Street 2:</b>
<b>Date Became Current:</b> 19500101	<b>City:</b>
<b>Date Ended Current:</b>	<b>State:</b>
<b>Phone:</b>	<b>Country:</b> US
<b>Source Type:</b> Notification	<b>Zip Code:</b>

**Historical Handler Details**

**Receive Dt:** 20020618  
**Generator Code Description:** Large Quantity Generator  
**Handler Name:** ODOT HIGHWAY BRIDGE

**Receive Dt:** 20010710  
**Generator Code Description:** Large Quantity Generator  
**Handler Name:** HIGHWAY BRIDGE

## Appendix: Database Descriptions

*Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:*

*"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."*

### **Standard Environmental Record Sources**

#### **Federal**

##### **Formerly Utilized Sites Remedial Action Program:**

[DOE FUSRAP](#)

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

**Government Publication Date: Mar 4, 2017**

##### **National Priority List:**

[NPL](#)

Sites on the United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

**Government Publication Date: Jul 26, 2022**

##### **National Priority List - Proposed:**

[PROPOSED NPL](#)

Sites proposed - by the EPA, the state agency, or concerned citizens - for addition to the NPL due to contamination by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

**Government Publication Date: Jul 26, 2022**

##### **Deleted NPL:**

[DELETED NPL](#)

Sites deleted from the United States Environmental Protection Agency (EPA)'s National Priorities List. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

**Government Publication Date: Jul 26, 2022**

**SEMS List 8R Active Site Inventory:**

[SEMS](#)

The U.S. Environmental Protection Agency's (EPA) Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. This data includes SEMS sites from the List 8R Active file as well as applicable sites from the SEMS GIS/REST file layer obtained from EPA's Facility Registry Service.

**Government Publication Date: Nov 23, 2022**

**Inventory of Open Dumps, June 1985:**

[ODI](#)

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

**Government Publication Date: Jun 1985**

**SEMS List 8R Archive Sites:**

[SEMS ARCHIVE](#)

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. This data includes sites from the List 8R Archived site file.

**Government Publication Date: Nov 23, 2022**

**Comprehensive Environmental Response, Compensation and Liability Information System -**

[CERCLIS](#)

**CERCLIS:**

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

**Government Publication Date: Oct 25, 2013**

**EPA Report on the Status of Open Dumps on Indian Lands:**

[IODI](#)

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

**Government Publication Date: Dec 31, 1998**

**CERCLIS - No Further Remedial Action Planned:**

[CERCLIS NFRAP](#)

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

**Government Publication Date: Oct 25, 2013**

**CERCLIS Liens:**

[CERCLIS LIENS](#)

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA). This database was provided by the United States Environmental Protection Agency (EPA). Refer to SEMS LIEN as the current data source for Superfund Liens.

**Government Publication Date: Jan 30, 2014**

**RCRA CORRACTS-Corrective Action:**

[RCRA CORRACTS](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

**Government Publication Date: Sep 5, 2022**

**RCRA non-CORRACTS TSD Facilities:**

[RCRA TSD](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

**Government Publication Date: Sep 5, 2022**

**RCRA Generator List:**

[RCRA LQG](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

**Government Publication Date: Sep 5, 2022**

**RCRA Small Quantity Generators List:**

[RCRA SQG](#)

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

**Government Publication Date: Sep 5, 2022**

**RCRA Very Small Quantity Generators List:**

[RCRA VSQG](#)

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

**Government Publication Date: Sep 5, 2022**

**RCRA Non-Generators:**

[RCRA NON GEN](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

**Government Publication Date: Sep 5, 2022**

**RCRA Sites with Controls:**

[RCRA CONTROLS](#)

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

**Government Publication Date: Sep 5, 2022**

**Federal Engineering Controls-ECs:**

[FED ENG](#)

This list of Engineering controls (ECs) is provided by the United States Environmental Protection Agency (EPA). ECs encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. The EC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2020 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

**Government Publication Date: Oct 27, 2022**

**Federal Institutional Controls- ICs:**

FED INST

This list of Institutional controls (ICs) is provided by the United States Environmental Protection Agency (EPA). ICs are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site. The IC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2020 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

**Government Publication Date: Oct 27, 2022**

**Land Use Control Information System:**

LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

**Government Publication Date: Sep 1, 2006**

**Institutional Control Boundaries at NPL sites:**

NPL IC

Boundaries of Institutional Control areas at sites on the United States Environmental Protection Agency (EPA)'s National Priorities List, or Proposed or Deleted, made available by the EPA's Shared Enterprise Geodata and Services (SEGS). United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. Institutional controls are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy.

**Government Publication Date: Jul 26, 2022**

**Emergency Response Notification System:**

ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

**Government Publication Date: 1982-1986**

**Emergency Response Notification System:**

ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

**Government Publication Date: 1987-1989**

**Emergency Response Notification System:**

ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

**Government Publication Date: Nov 6, 2022**

**The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database:**

FED BROWNFIELDS

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This data is provided by the United States Environmental Protection Agency (EPA) and includes Brownfield sites from the Cleanups in My Community (CIMC) web application.

**Government Publication Date: Sep 13, 2022**

**FEMA Underground Storage Tank Listing:**

FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

**Government Publication Date: Dec 31, 2017**

**Facility Response Plan:**

[FRP](#)

List of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

**Government Publication Date: Dec 31, 2021**

**Delisted Facility Response Plans:**

[DELISTED FRP](#)

Facilities that once appeared in - and have since been removed from - the list of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

**Government Publication Date: Dec 31, 2021**

**Historical Gas Stations:**

[HIST GAS STATIONS](#)

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

**Government Publication Date: Jul 1, 1930**

**Petroleum Refineries:**

[REFN](#)

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

**Government Publication Date: Aug 30, 2022**

**Petroleum Product and Crude Oil Rail Terminals:**

[BULK TERMINAL](#)

List of petroleum product and crude oil rail terminals made available by the U.S. Energy Information Administration (EIA). Includes operable bulk petroleum product terminals located in the 50 States and the District of Columbia with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil that were active between 2017 and 2018. Petroleum product terminals comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings. Survey locations adjusted using public data.

**Government Publication Date: Jun 29, 2022**

**LIEN on Property:**

[SEMS LIEN](#)

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) provides Lien details on applicable properties, such as the Superfund lien on property activity, the lien property information, and the parties associated with the lien.

**Government Publication Date: Nov 23, 2022**

**Superfund Decision Documents:**

[SUPERFUND ROD](#)

This database contains a listing of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD), along with other associated memos and files. This information is maintained and made available by the US EPA (Environmental Protection Agency).

**Government Publication Date: Sep 28, 2022**

**State**

**Division of Environmental Response & Revitalization Database:**

[DERR](#)

The Ohio Environmental Protection Agency's (Ohio EPA) Division of Environmental Response and Revitalization (DERR) database is an index of sites maintained by their district offices. The database contains basic site information only and is NOT a record of contaminated sites in Ohio. Not all sites are contaminated, and a site's absence does not imply that it is uncontaminated. The database is also not a list of Brownfield sites; some sites do not meet the federal or state definitions of Brownfields and many properties in Ohio that may qualify as Brownfields are not included.

**Government Publication Date: Oct 13, 2022**

**Delisted Division of Environmental Response & Revitalization:**

[DELISTED DERR](#)

List of sites which were once included but have since been removed from the Ohio Environmental Protection Agency (Ohio EPA) Division of Environmental Response & Revitalization (DERR) database; an index of sites for which district offices maintain files. DERR is NOT a record of contaminated sites or sites suspected of contamination; not all sites in the database are contaminated, and a site's absence from the database does not imply that it is uncontaminated.

**Government Publication Date: Oct 13, 2022**

**Ohio Licensed Solid Waste Facilities, Landfills and other Waste Facilities:**

SWF/LF

List of landfill and solid waste facilities of various types as maintained by the Division of Materials and Waste Management of the Ohio Environmental Protection Agency (Ohio EPA), including: municipal solid waste facilities, municipal solid waste transfer stations, construction and demolition landfills, compost class 1,2,3 and 4 facilities, industrial and residual waste landfills, and scrap tire disposal and recycling facilities. Includes active and inactive facilities.

**Government Publication Date: Aug 11, 2021**

**Ohio Old Solid Waste Landfill (OLDSWLF):**

HIST LF

A list of about 1200 old abandoned dumps or landfills. This database was developed from Ohio EPA staff notebooks and other information dating from the mid-1970's, including old Division of Solid and Hazardous Waste Management and DERR files, the Eckhardt Report and the 1976 Groundwater Pollution Inventory-Summary of Land Disposal.

**Government Publication Date: Historic**

**Ohio Leaking Underground Storage Tanks (LUST):**

LUST

List of facilities with active and inactive environmental files, and active and inactive tank facilities with releases, made available by the Ohio Department of Commerce, Division of the State Fire Marshall under the Bureau of Underground Storage Tank Regulations (BUSTR). BUSTR's mission is to effectively regulate the safe operation of underground storage tanks and to ensure appropriate investigation and cleanup of releases from underground storage tanks for the purpose of protecting human health and the environment for the citizens of Ohio.

**Government Publication Date: Oct 4, 2022**

**Delisted Petroleum Release List:**

DELISTED LST

List of petroleum release incidents sites that have been removed from either: the list of facilities with active release from regulated tanks, or the Non-Regulated Leaking Underground Storage Tanks (LUST) list, both made available by the Bureau of Underground Storage Tank Regulations in the Ohio Department of Commerce.

**Government Publication Date: Oct 4, 2022**

**Regulated and Non-Regulated Leaking Underground Storage Tanks (LUST):**

LST

List of sites where there has been a suspected or confirmed release of petroleum from a regulated or non-regulated underground storage tank (UST). This list has been made available by the Bureau of Underground Storage Tank Regulations in the Ohio Department of Commerce.

**Government Publication Date: Oct 4, 2022**

**Ohio Registered Underground Storage Tanks (UST):**

UST

List of Active and Inactive Registered Underground Storage Tanks regulated by the Ohio Department of Commerce, Division of the State Fire Marshall under the Bureau of Underground Storage Tank Regulations (BUSTR). BUSTR's mission is to effectively regulate the safe operation of underground storage tanks and to ensure appropriate investigation and cleanup of releases from underground storage tanks for the purpose of protecting human health and the environment for the citizens of Ohio.

**Government Publication Date: Oct 4, 2022**

**Delisted Storage Tanks:**

DTNK

A list of sites which once appeared on and have since been removed from either: the list of active or inactive tank sites made available by the State Fire Marshall Bureau of Underground Storage Tanks (BUSTR); or the Ohio Tank Tracking and Environmental Regulations search (BUSTR Public Inquiry page).

**Government Publication Date: Oct 4, 2022**

**Aboveground and Unregulated Tanks:**

TANKS

A list of tanks in Ohio known to the Division of the State Fire Marshal - Code Enforcement Bureau.

Note: Aboveground Storage Tanks in Ohio are regulated by local fire departments. This list of tanks known to the State Fire Marshall should not be considered a comprehensive list of aboveground or unregulated tanks in Ohio.

**Government Publication Date: Aug 22, 2022**

**Engineering Controls:**

ENG

List of facilities which have implemented engineering controls under Ohio's Voluntary Action Program (VAP). This list is maintained by the Ohio Environmental Protection Agency (Ohio EPA).

**Institutional Controls:**

INST

This list of sites which have implemented an institutional control is maintained by the Ohio Environmental Protection Agency's (Ohio EPA) Division of Environmental Response and Revitalization (DERR). The site listing is sourced from the DERR List of Projects with Institutional Controls which includes applicable projects under the Voluntary Action Program (VAP) and the Remedial Response Program (RR).

Government Publication Date: Oct 13, 2022

**Voluntary Action Program Sites:**

VCP

This list of Voluntary Action Program sites is provided by the Ohio Environmental Protection Agency's (Ohio EPA) Division of Environmental Response and Revitalization (DERR). The VAP Program gives individuals a way to investigate possible environmental contamination, clean it up if necessary and receive a promise from the State of Ohio that no more cleanup is needed. When cleanup requirements are met, the director of Ohio EPA issues a covenant not to sue. This covenant protects the property owner or operator and future owners from being legally responsible to the State of Ohio for further investigation and cleanup. This protection applies only when the property is used and maintained in the same manner as when the covenant was issued.

Government Publication Date: Oct 13, 2022

**Covenants Not to Sue Sites:**

VAP CNS

List of sites where a covenant not to sue (CNS) has been issued. Ohio's Voluntary Action Program (VAP) sets standards for contaminated site assessment and remediation and reviews the activities conducted by certified professionals based on those standards to issue covenants not to sue (CNS).

Government Publication Date: Sep 1, 2021

**Brownfield Inventory:**

BROWNFIELDS

Statewide inventory of brownfield properties maintained by the Ohio Environmental Protection Agency (Ohio EPA). Ohio EPA describes a brownfield as a previously-developed site with potential contamination from industrial or commercial activity that was not being redeveloped due to fear of litigation. Inclusion on this list is voluntary. Most of the properties contained in the Ohio Brownfield Inventory are properties that have received funding through either the Clean Ohio Assistance Fund (COAF) or Clean Ohio Revitalization Fund (CORF). There are also some properties listed that have received funding through U.S. EPA's Brownfield Grants.

Government Publication Date: Nov 4, 2022

**Tribal**

**Leaking Underground Storage Tanks (LUSTs) on Tribal/Indian Lands:**

INDIAN LUST

Leaking Underground Storage Tanks (LUSTs) on Tribal/Indian Lands in EPA Region 5, which includes Ohio. There are no LUST records in Ohio at this time.

Government Publication Date: Oct 16, 2017

**Underground Storage Tanks (USTs) on Indian Lands:**

INDIAN UST

List of underground storage tanks (USTs) on Tribal/Indian Lands in EPA Region 5, which includes Ohio. There are no UST records in Ohio at this time.

Government Publication Date: Oct 16, 2017

**Delisted Tribal Leaking Storage Tanks:**

DELISTED ILST

Leaking Underground Storage Tank facilities which have been removed from the Regional Tribal LUST lists made available by the EPA.

Government Publication Date: Oct 14, 2022

**Delisted Tribal Underground Storage Tanks:**

DELISTED IUST

Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.

Government Publication Date: Oct 14, 2022

**County**

**No County standard environmental record sources available for this State.**

## **Additional Environmental Record Sources**

### **Federal**

#### **Facility Registry Service/Facility Index:**

[FINDS/FRS](#)

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the Environmental Protection Agency (US EPA).

**Government Publication Date: Nov 2, 2020**

#### **Toxics Release Inventory (TRI) Program:**

[TRIS](#)

The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

**Government Publication Date: Aug 24, 2021**

#### **Perfluorinated Alkyl Substances (PFAS) Releases:**

[PFAS TRI](#)

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a Per- or polyfluorinated alkyl substance (PFAS) included in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances. The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment.

**Government Publication Date: Aug 24, 2021**

#### **PFOA/PFOS Contaminated Sites:**

[PFAS NPL](#)

List of National Priorities List (NPL) and related Superfund Alternative Agreement (SAA) sites where PFOA or PFOS contaminants have been found in water and/or soil. The site listing is provided by the Federal Environmental Protection Agency (EPA).

**Government Publication Date: Oct 4, 2022**

#### **Perfluorinated Alkyl Substances (PFAS) Water Quality:**

[PFAS WATER](#)

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances.

**Government Publication Date: Jul 20, 2020**

#### **SSEHRI PFAS Contamination Sites:**

[PFAS SSEHRI](#)

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Disclaimer: The source conveys this database undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Limited location details are available with this data. Access the following for the most current informations <https://pfasproject.com/pfas-contamination-site-tracker/>

**Government Publication Date: Dec 12, 2019**

#### **National Response Center PFAS Spills:**

[ERNS PFAS](#)

National Response Center (NRC) calls from 1990 to the most recent complete calendar year where there is indication of Aqueous Film Forming Foam (AFFF) usage. NRC calls may reference AFFF usage in the "Material Involved" or "Incident Description" fields. Data made available by the US Environmental Protection Agency (EPA). Disclaimer: dataset may include initial or misidentified incident data not yet validated or investigated by a federal/state response agency.

**Government Publication Date: Feb 23, 2022**

#### **Hazardous Materials Information Reporting System:**

[HMIRS](#)

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

**Government Publication Date: Sep 1, 2020**

**National Clandestine Drug Labs:**

NCDL

The U.S. Department of Justice ("the Department"), Drug Enforcement Administration (DEA), provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

**Government Publication Date: Aug 30, 2022**

**Toxic Substances Control Act:**

TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

**Government Publication Date: Apr 11, 2019**

**Hist TSCA:**

HIST TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

**Government Publication Date: Dec 31, 2006**

**FTTS Administrative Case Listing:**

FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

**Government Publication Date: Jan 19, 2007**

**FTTS Inspection Case Listing:**

FTTS INSP

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

**Government Publication Date: Jan 19, 2007**

**Potentially Responsible Parties List:**

PRP

Early in the site cleanup process, the U.S. Environmental Protection Agency (EPA) conducts a search to find the Potentially Responsible Parties (PRPs). The EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site. This listing contains PRPs, Noticed Parties, at sites in the EPA's Superfund Enterprise Management System (SEMS).

**Government Publication Date: Nov 23, 2022**

**State Coalition for Remediation of Drycleaners Listing:**

SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin. Since 2017, the SCRD no longer maintains this data, refer to applicable state source data where available.

**Government Publication Date: Nov 08, 2017**

**Integrated Compliance Information System (ICIS):**

ICIS

The U.S. Environmental Protection Agency's Enforcement and Compliance History Online system incorporates data from the Integrated Compliance Information System - National Pollutant Discharge Elimination System (ICIS-NPDES). ICIS-NPDES is an information management system maintained by the Office of Compliance to track permit compliance and enforcement status of facilities regulated by the NPDES under the Clean Water Act. This data includes permit, inspection, violation and enforcement action information for applicable ICIS records.

**Government Publication Date: Oct 15, 2022**

**Drycleaner Facilities:**

FED DRYCLEANERS

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) online search. The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

**Government Publication Date: Jun 25, 2022**

**Delisted Drycleaner Facilities:**

DELISTED FED DRY

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

**Government Publication Date: Jun 25, 2022**

**Formerly Used Defense Sites:**

FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DOD) is responsible for an environmental restoration. The FUDS Annual Report to Congress (ARC) is published by the U.S. Army Corps of Engineers (USACE). This data is compiled from the USACE's Geospatial FUDS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) FUDS dataset.

**Government Publication Date: Jul 12, 2022**

**Former Military Nike Missile Sites:**

FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

**Government Publication Date: Dec 2, 1984**

**PHMSA Pipeline Safety Flagged Incidents:**

PIPELINE INCIDENT

A list of flagged pipeline incidents made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types.

**Government Publication Date: Jul 7, 2020**

**Material Licensing Tracking System (MLTS):**

MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

**Government Publication Date: May 11, 2021**

**Historic Material Licensing Tracking System (MLTS) sites:**

HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

**Government Publication Date: Jan 31, 2010**

**Mines Master Index File:**

MINES

The Master Index File (MIF) is provided by the United State Department of Labor, Mine Safety and Health Administration (MSHA). This file, which was originally created in the 1970's, contained many Mine-IDs that were invalid. MSHA removes invalid IDs from the MIF upon discovery. MSHA applicable data includes the following: all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970; mine addresses for all mines in the database except for Abandoned mines prior to 1998 from MSHA's legacy system (addresses may or may not correspond with the physical location of the mine itself); violations that have been assessed penalties as a result of MSHA inspections beginning on 1/1/2000; and violations issued as a result of MSHA inspections conducted beginning on 1/1/2000.

**Government Publication Date: Aug 3, 2022**

**Surface Mining Control and Reclamation Act Sites:**

SMCRA

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (OSMRE) to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of Abandoned Mine Land (AML) impacts, as well as information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

**Mineral Resource Data System:**

[MRDS](#)

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

Government Publication Date: Mar 15, 2016

**DOE Legacy Management Sites:**

[LM SITES](#)

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) currently manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The LM manages sites with diverse regulatory drivers (statutes or programs that direct cleanup and management requirements at DOE sites) or as part of internal DOE or congressionally-recognized programs, such as but not limited to: Formerly Utilized Sites Remedial Action Program (FUSRAP), Uranium Mill Tailings Radiation Control Act (UMTRCA Title I, Title II), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), Decontamination and Decommissioning (D&D), Nuclear Waste Policy Act (NWPA). This site listing includes data exported from the DOE Office of LM's Geospatial Environmental Mapping System (GEMS). GEMS Data disclaimer: The DOE Office of LM makes no representation or warranty, expressed or implied, regarding the use, accuracy, availability, or completeness of the data presented herein.

Government Publication Date: Dec 1, 2022

**Alternative Fueling Stations:**

[ALT FUELS](#)

This list of alternative fueling stations is sourced from the Alternative Fuels Data Center (AFDC). The U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy launched the AFDC in 1991 as a repository for alternative fuel vehicle performance data, which provides a wealth of information and data on alternative and renewable fuels, advanced vehicles, fuel-saving strategies, and emerging transportation technologies. The data includes Biodiesel (B20 and above), Compressed Natural Gas (CNG), Electric, Ethanol (E85), Hydrogen, Liquefied Natural Gas (LNG), Propane (LPG) fuel type locations.

Government Publication Date: Oct 10, 2022

**Superfunds Consent Decrees:**

[CONSENT DECREES](#)

This list of Superfund consent decrees is provided by the Department of Justice, Environment & Natural Resources Division (ENRD) through a Freedom of Information Act (FOIA) applicable file. This listing includes Consent Decrees for CERCLA or Superfund Sites filed and/or as proposed within the ENRD's Case Management System (CMS) since 2010. CMS may not reflect the latest developments in a case nor can the agency guarantee the accuracy of the data. ENRD Disclaimer: Congress excluded three discrete categories of law enforcement and national security records from the requirements of the FOIA; response is limited to those records that are subject to the requirements of the FOIA; however, this should not be taken as an indication that excluded records do, or do not, exist.

Government Publication Date: Sep 15, 2022

**Air Facility System:**

[AFS](#)

This EPA retired Air Facility System (AFS) dataset contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners. AFS does not contain data on facilities that are solely asbestos demolition and/or renovation contractors, or landfills. ECHO Clean Air Act data from AFS are frozen and reflect data as of October 17, 2014; the EPA retired this system for Clean Air Act stationary sources and transitioned to ICIS-Air.

Government Publication Date: Oct 17, 2014

**Registered Pesticide Establishments:**

[SSTS](#)

List of active EPA-registered foreign and domestic pesticide-producing and device-producing establishments based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that facilities producing pesticides, active ingredients, or devices be registered. The list of establishments is made available by the EPA.

Government Publication Date: Mar 30, 2022

**Polychlorinated Biphenyl (PCB) Transformers:**

[PCBT](#)

Locations of Transformers Containing Polychlorinated Biphenyls (PCBs) registered with the United States Environmental Protection Agency. PCB transformer owners must register their transformer(s) with EPA. Although not required, PCB transformer owners who have removed and properly disposed of a registered PCB transformer may notify EPA to have their PCB transformer de-registered. Data made available by EPA.

Government Publication Date: Oct 15, 2019

**Polychlorinated Biphenyl (PCB) Notifiers:**

[PCB](#)

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

**Government Publication Date:** Jul 28, 2022

**State**

**Ohio Emergency Response (ER) Spills data:**

[SPILLS](#)

Incidents reported to the Emergency Response Unit of the Ohio Environmental Protection Agency (Ohio EPA); includes clandestine drug lab sites with environmental impact.

**Government Publication Date:** Aug 25, 2020

**Ohio Historic Towing Database (TOWNGAS):**

[TOWNGAS](#)

A list of 82 sites of coal gas generators in Ohio. These plants produced gas for street lights in the communities in which they were located. The production of one million cubic feet of gas also produced about 800 gallons of liquid coal tar, which is a carcinogen. TOWNGAS was developed from a database from Radian Corporation along with information from the Ohio Historical Society and various public libraries.

**Government Publication Date:** Historic

**Dry Cleaning Facilities:**

[DRYCLEANERS](#)

This list of facilities, which have obtained permits to install or operate dry cleaning operations, is maintained by the Ohio Environmental Protection Agency's (Ohio EPA) Division of Air Pollution Control (DAPC). This data is sourced from the Ohio EPA's applicable electronic copies of issued permits search tool and FOIA file.

**Government Publication Date:** Dec 16, 2022

**Delisted Drycleaner Facilities:**

[DELISTED DRYCLEANERS](#)

List of drycleaner facilities/sites which have been delisted from Ohio Environmental Protection Agency (Ohio EPA).

**Government Publication Date:** Dec 16, 2022

**Urban Setting Designation Sites:**

[USD](#)

List of sites granted Urban Setting Designation (USD) by the Ohio Environmental Protection Agency (Ohio EPA). USDs are granted to brownfield and voluntary cleanup properties located in highly urbanized areas where ground water containing chemicals from prior industrial or commercial activities poses no perceptible risk to the community because the ground water is not being used and will not be used for drinking water purposes in the foreseeable future.

**Government Publication Date:** Sep 13, 2022

**Cessation of Regulated Operations (CRO) Program:**

[CRO](#)

The goal of the Cessation of Regulated Operations (CRO) program run by the Ohio Environmental Protection Agency (Ohio EPA) is to prevent threats to human health and the environment created when business owners and operators irresponsibly abandon businesses where chemicals were produced, used, stored or handled.

**Government Publication Date:** Oct 27, 2022

**Ohio Old Sludge Dumping Database (SIABASE):**

[SIAB](#)

This database of about 2800 sites represent pits, ponds and lagoons where various types of sludge were dumped over many years. The object of this data collection was to determine if harm was done to drinking water supplies below each dump site. The data were collected during the 1970s and published by the Ohio Environmental Protection Agency in 1980.

**Government Publication Date:** Historic

**Per- and Polyfluoroalkyl Substances (PFAS):**

[PFAS](#)

A list of known PFAS contaminated sites. This list is made available by the Ohio Environmental Protection Agency (Ohio EPA).

**Government Publication Date:** Oct 6, 2022

**Underground Injection Control Wells:**

[UIC](#)

The Ohio Environmental Protection Agency provides this listing of Class I and Class V Underground Injection Control Wells.

**Government Publication Date:** Oct 7, 2019

**PFAS Testing of Ohio Public Water Systems:**

[PFAS PWS](#)

A list of public water supply systems that have been tested for PFAS made available by the Ohio Environmental Protection Agency (EPA).

**Government Publication Date: Oct 6, 2022**

**Permit by Rule Air Facilities:**

[AIR PERMITS](#)

A permit-by-rule is a specific permit provision in the Ohio Administrative Code that applies to certain types of low-emitting air pollution sources. This list of Permit by Rule facilities is provided by the Ohio Environmental Protection Agency.

**Government Publication Date: Jul 30, 2020**

**Tribal**

***No Tribal additional environmental record sources available for this State.***

**County**

***No County additional environmental record sources available for this State.***

# Definitions

**Database Descriptions:** This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

**Detail Report:** This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

**Distance:** The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

**Direction:** The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

**Elevation:** The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

**Executive Summary:** This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

**Map Key:** The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

**Unplottables:** These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX G  
REGULATORY CORRESPONDENCE



## Claire Cerne

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**From:** Cleveland Public Records Center <clevelandoh@govqa.us>  
**Sent:** Thursday, January 5, 2023 9:35 AM  
**To:** Claire Cerne  
**Subject:** City - Public Records Request :: C000132-010523

**EXTERNAL EMAIL:** Open with EXTREME caution!

Dear Claire Cerne,

Thank you for your interest in public records of the City of Cleveland. Your request has been received and is being processed in accordance with the Ohio Sunshine laws. Your request was received in this office on 1/5/2023 and has been given the reference number C000132-010523 for tracking purposes.

Records Requested: **The Mannik & Smith Group Inc. (MSG) is conducting a Phase I Environmental Site Assessment (ESA) of the property located at 3203 W 71st Street, Cleveland, Ohio. As part of the Phase I ESA, MSG requests any records that may have related to the site, including but not limited to spills, violations, inspections, hazardous material storage, water wells, septic systems, or above/ underground storage tanks.**

Your request will be forwarded to the relevant City department(s) to locate the information you seek and to determine the volume and any costs associated with satisfying your request. You will be contacted about the availability and/or provided with copies of the records in question. PLEASE NOTE: The public records law does not require a governmental body to create new information, to do legal research, or to answer questions.

You can monitor the progress of your request at the link below and you'll receive an email when your request has been completed. Again, thank you for using the [Cleveland Public Records Center](#).

City of Cleveland - Public Records

---

To monitor the progress or update this request please log into the [Cleveland Public Records Center](#).



**Claire Cerne**

---

**From:** kelly.snedegar@com.ohio.gov  
**Sent:** Thursday, January 5, 2023 3:43 PM  
**To:** Claire Cerne  
**Subject:** requested addresses

**EXTERNAL EMAIL:** Open with EXTREME caution!

Hello,

On Behalf of the Bureau of Underground Storage Tank Regulations, the Records Management Section is responding to your public records request. I have searched our database regarding records for Underground Storage Tanks and found no records for:

- 3203 W 71<sup>st</sup> St., Cleveland, OH 44102**
- 7115 Dearborn Ave., Cleveland, OH 44102**
- 3225 W 71<sup>st</sup> St., Cleveland, OH 44102**

Please contact your local fire department in that they may have records for this address. If you are requesting information for Aboveground Storage tanks, please contact the Code Enforcement Bureau at (614) 728-5460 and if you need records regarding permits and registrations, please contact Maria with the Bureau of Testing and Registration at (614) 995-0301.

Please let me know if you need anything else.

Kelly



**Kelly Snedegar**  
**Records Management Officer**  
Ohio Department of Commerce  
Division of State Fire Marshal  
Bureau of Underground Storage Tank Regulations  
8895 East Main Street, Reynoldsburg, Ohio 43068  
Desk: 614-387-7412  
[kelly.snedegar@com.ohio.gov](mailto:kelly.snedegar@com.ohio.gov)  
[com.ohio.gov](http://com.ohio.gov)

Please consider the environment before printing this e-mail

*This message and any response to it may constitute a public record and thus may be publicly available to anyone who requests it.*

\*\*\*\*\*

\*  
The information transmitted is intended solely for the individual or entity to which it is addressed and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of or taking action in reliance upon this information by persons or entities other than the intended recipient is prohibited. If you have received this email in error please contact the sender and delete the material from any computer.

## Claire Cerne

---

**From:** Cleveland Public Records Center <clevelandoh@govqa.us>  
**Sent:** Thursday, January 5, 2023 9:31 AM  
**To:** Claire Cerne  
**Subject:** City - Public Records Request :: C000131-010523

**EXTERNAL EMAIL:** Open with EXTREME caution!

Dear Claire Cerne,

Thank you for your interest in public records of the City of Cleveland. Your request has been received and is being processed in accordance with the Ohio Sunshine laws. Your request was received in this office on 1/5/2023 and has been given the reference number C000131-010523 for tracking purposes.

Records Requested: **The Mannik & Smith Group Inc. (MSG) is conducting a Phase I Environmental Site Assessment (ESA) of the property located at 3203 W 71st Street, Cleveland, Ohio. As part of the Phase I ESA, MSG requests any records that may have related to the site, including but not limited to spills, violations, inspections, hazardous material storage, water wells, septic systems, or above/ underground storage tanks.**

Your request will be forwarded to the relevant City department(s) to locate the information you seek and to determine the volume and any costs associated with satisfying your request. You will be contacted about the availability and/or provided with copies of the records in question. PLEASE NOTE: The public records law does not require a governmental body to create new information, to do legal research, or to answer questions.

You can monitor the progress of your request at the link below and you'll receive an email when your request has been completed. Again, thank you for using the [Cleveland Public Records Center](#).

City of Cleveland - Public Records

---

To monitor the progress or update this request please log into the [Cleveland Public Records Center](#).





**NOTIFICATION OF DEMOLITION AND RENOVATION  
SUMMARY REPORT**

[Return to Notification  
Process Page](#)

Postmark: <b>10/6/2017</b>	Date Received: <b>10/6/2017</b>	Notification # <b>NE1812</b>
<b>Section I. Type of Notification:</b> <b>Original</b> #	<b>Notification Status: I</b> A = Active, C = Canceled, H = ON Hold, I = Inactive	

**Section II. Facility Description** (include building name, number, and floor or room number) ; **Section IV. Is Asbestos Present?**

Site ID	Building Information	Site Location (specific)	Is Asbestos Present?
111076	Name: Cleveland Commercial Address 1: 3203 West 71st Street Address 2: City: Cleveland , OH ZIP: County: CUYAHOGA	Site Location: Building Size: # of Floors: Ages in Years: Present Use: Vacant Prior Use: Commercial Public Access: No	Yes

**Section III. Type of Operation:** **Emergency Ordered Demolition (NESHAP)**

**Section V. Facility Information**

Site ID	Sites Information	Owner Information
111076	Name: Cleveland Commercial Address 1: 3203 West 71st Street Address 2: City: Cleveland , OH County: CUYAHOGA Site Location: Building Size (sq): Is Asbestos Present?: Yes	City of Cleveland ; 601 Lakeside Avenue ; Cleveland , OH 44114 ; Phone: 2166642781; Fax: 2166642276; Contact: Damian Borkowski
Site ID	Sites Information	Abatement Contractor Information
111076	Cleveland	Precision 5500 Old Contact:

	Name: Commercial Address 1: 3203 West 71st Street Address 2: City: Cleveland , OH County: CUYAHOGA Site Location: Building Size (sq): Is Asbestos Present?: Yes	Environmental Brecksville Independence , Company ; Road ; OH 44131 ; Phone: 2166426040; Fax: 2166426041; John Savage ; License: AC1154
Site ID	Sites Information	Demolition Contractor Information
111076	Name: Cleveland Commercial Address 1: 3203 West 71st Street Address 2: City: Cleveland , OH County: CUYAHOGA Site Location: Building Size (sq): Is Asbestos Present?: Yes	4510 East B&B Wrecking & Excavating Inc. ; 71st Street ; Cleveland , OH 44105 ; Phone: 2164291700; Fax: 2164291717; Contact: Bobbie Mixer ; License:

**Section VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM:**

Site ID	Sites Information	Ohio Asbestos Hazard Evaluation Specialist	Procedure used to detect and analyze asbestos
111076	Name: Cleveland Commercial Address 1: 3203 West 71st Street Address 2: City: Cleveland , OH	Name: Paul Brown Certificate ID: ES31234	

County: CUYAHOGA	
Site Location:	
Building Size (sq):	
Is Asbestos Present?: Yes	

**Section VII. Approximate Amount of Asbestos Materials**

Site ID	Sites Information	Asbestos Parties	RACM to be Removed	Nonfriable AMC to be Removed	Nonfriable ACM NOT to be Removed
111076	Name: Cleveland Commercial Address 1: 3203 West 71st Street Address 2: City: Cleveland , OH County: CUYAHOGA Site Location: Building Size (sq): Is Asbestos Present?: Yes	Party Type: Abatement Billable: Yes Name: Environmental Company Address 1: 5500 Old Brecksville Road City: Independence State: OH ZIP: License: AC1154 Party ID: 128	Calculate Fee: \$279.00 Pipes(liner feet): 582.00 Surface Area(square feet): 3064.00 Facility Components (cubic feet): 405.00	Nonfriable ACM (Category I) to be Removed: Pipes(liner feet): 0.00 Surface Area (square feet): 0.00 Facility Components (cubic feet): 0.00 Nonfriable ACM (Category II) to be Removed: Pipes(liner feet): 0.00 Surface Area (square feet): 277.00 Facility Components (cubic feet): 0.00	Nonfriable ACM (Category I) NOT to be Removed: Pipes(liner feet): 0.00 Surface Area (square feet): 7124.00 Facility Components (cubic feet): 0.00 Nonfriable ACM (Category II) NOT to be Removed: Pipes(liner feet): 0.00 Surface Area (square feet): 0.00 Facility Components (cubic feet): 0.00

**Section VIII. Scheduled Dates Demolition or Renovation**

Site ID	Sites Information	Demolition Scheduled Dates	Renovation Scheduled Dates
111076	Name: Cleveland Commercial Address 1: 3203 West 71st Street Address 2: City: Cleveland , OH	Start Date: 10/10/17 Complete Date: 11/17/17	Start Date: Complete Date:

County: CUYAHOGA Site Location: Building Size (sq): Is Asbestos Yes Present?:	
--	--

**Section IX-XI. Dates Removal, Description Planning and Work Practices.**

Site ID	Sites Information	Section IX: Dates for Asbestos Removal	Section X. Description of planned Demolition or Renovation work	Section XI. Description of work practices and engineering controls														
111076	Name: Cleveland Commercial Address 1: 3203 West 71st Street Address 2: City: Cleveland, OH County: CUYAHOGA Site Location: Building Size (sq): Is Asbestos Yes Present?:	Precision Environmental Company <b>Contractor Name:</b> License: AC1154 <b>Start Date:</b> 10/10/17 <b>Complete Date:</b> 10/27/17 <b>Days of the Week:</b> <table border="1" style="display: inline-table;"> <tr> <td>M</td><td>T</td><td>W</td><td>Th</td><td>F</td><td>Sat</td><td>S</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> </tr> </table> <b>Scheduled comments:</b>	M	T	W	Th	F	Sat	S	<input type="checkbox"/>								
M	T	W	Th	F	Sat	S												
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												

**Section XII. Waste Transporter**

Site ID	Sites Information	Waste Transporter
111076	Name: Cleveland Commercial Address 1: 3203 West 71st Street Address 2: City: Cleveland, OH County: CUYAHOGA Site	Cleveland Cartage ; 2070 West 3rd Street ; Cleveland, OH 44113 ; Phone: 2167722000; Fax: Contact: ; ;

Location:	
Building	
Size (sq):	
Is	
Asbestos Yes	
Present?:	

**Section XIII. Waste Disposal**

Site ID	Sites Information	Waste Disposal
111076	Name: Cleveland Commercial Address 1: 3203 West 71st Street Address 2: City: Cleveland , OH County: CUYAHOGA Site Location: Building Size (sq): Is Asbestos Yes Present?:	WM American Landfill, Inc. ; 7916 Chapel Street Waynesburg , OH S.E. ; 44688 ; Phone: 3308663265; Fax: Contact: ; ;

**Section XIV. Emergency Demolition**

Name of Authority Issuing Order	Date of Emergency Demolition	Authority of Order (Citation of Code)
Name: Damian Borkowski Title: Manager	Date of Order: 10/06/17 Date Ordered to Begin: 10/06/17	40 CRF Part 61

**Section XV. Emergency Renovation**

Date of Emergency Renovation	Description of the Sudden, Unexpected Event	Explanation for Emergency Renovation
Date: Time:		

**Section XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder.**

Site ID	Sites Information	Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder

111076	Name: Cleveland Commercial	
	Address 1: 3203 West 71st Street	
	Address 2:	
	City: Cleveland , OH	
	County: CUYAHOGA	
	Site Location:	
	Building Size (sq):	
	Is Asbestos Present?: Yes	

**Section XVIII. I acknowledge the existence of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate, and complete.**

Name of Owner/Operator: **John Savage**  
 Title: **VP**  
 Date: **10/6/2017**

**Asbestos Action(s) Information**

Site ID	Sites Information	Actions Related to Asbestos Parties	Action Comments
111076	Name: Cleveland Commercial Address 1: 3203 West 71st Street Address 2: City: Cleveland , OH County: CUYAHOGA Site Location: Building Size (sq): Is Asbestos Present?: Yes	<b>Action Date:</b> 10/06/17 <b>Action Type:</b> Notice Received <b>Party Type:</b> Demolition Name: B&B Wrecking & Excavating Inc. Address 1: 4510 East 71st Street City: Cleveland State: OH ZIP: License: Party ID: 6014	

\* Comments and Reason to revise:



# Cleveland Local Air Agency Minor Source Inspection Report

Revised: 08/30/2001

## INSPECTION SUMMARY

Date of Inspection: 11/29/01

Date of Previous Inspection: N/A

† Facility I.D. Number: N/A

Emissions Units Numbers: N/A

Facility Name: American Recycling Company

Facility Address: 3203 West 71<sup>st</sup> Street Cleveland, OH 44127

Mailing Address: P.O. Box #27486 Cleveland, OH 44127-0486

Facility Representative: Drew Koler

Title of Representative: Manager

Representative Phone Number: (216) 281-2828

Representative Fax Number: (216) 281-5505

Attainment Designation: TSP A                      SO<sub>2</sub> P                      Ozone A                      CO A                      NO<sub>x</sub> A

(P = Primary Non-Attainment, S = Secondary Non-Attainment, A = Attainment)

Is a List of All Registration Status, De Minimis, and Exempt Sources attached?  Yes    No    N/A

Is File Confidential?    Yes     No

Inspected By: Karen E. Kassouf and Tim Fischer

Signature of Inspector: \_\_\_\_\_ Date: \_\_\_\_\_

Signature of Permit Engineer: \_\_\_\_\_ Date: \_\_\_\_\_

Date Report Completed: 12/03/01 4:55 PM

Report Reviewed By: Raymond D. Broussard Date: \_\_\_\_\_

† American Recycling was referred to the CLAA by Division of Hazardous Waste (NEDO).



# Cleveland Local Air Agency Minor Source Inspection Report

Revised: 08/30/2001

## Registration Status Sources

<i>Emission Unit:</i>	<i>Description:</i>	<i>Reason:</i>
N/A	N/A	N/A

## De Minimis Sources

<i>Emission Unit:</i>	<i>Description:</i>	<i>Reason:</i>
N/A	ARC Lamp Recycling System	††OAC 3745-15-05 (D)

## Exempted Sources

<i>Emission Unit:</i>	<i>Description:</i>	<i>Reason:</i>
N/A	N/A	N/A

## Shutdown Sources

<i>Emission Unit:</i>	<i>Description:</i>	<i>Reason:</i>
N/A	N/A	N/A

††American Recycling Company will be receiving a Letter of Warning for failure to keep records to verify actual emissions are below 10 lbs/day for Particulate Emissions.

**SERVING OHIO EPA  
AS AGENCY 13 FOR  
CUYAHOGA COUNTY**

**CERTIFIED MAIL 7001 2510 0005 0683 0754  
RETURN RECEIPT REQUESTED**

February 22, 2002

DREW KOLER  
AMERICAN RECYCLING COMPANY  
P.O. BOX #27486  
CLEVELAND, OH 44127-0486

**NOTICE OF VIOLATION – FOLLOW-UP LETTER**

Dear Mr. Koler:

On December 7, 2001, the Cleveland Local Air Agency (CLAA) issued a Letter of Warning requiring American Recycling Company to record actual operations and to demonstrate that daily particulate emissions do not exceed the de minimis exemption level of 10 lbs/day. The CLAA is in receipt of a submittal that demonstrates de minimis status, recorded from January 2, 2002 through February 13, 2002.

CLAA has determined that no further enforcement action is warranted at this time, but reserves its right to take such action in the future if necessary.

This letter is being issued in concurrence with Ohio EPA and does not excuse any violations of local, state and federal laws or regulations regarding air pollution control. Violations of air pollution control laws may be pursued in local court or referred to Ohio EPA for an enforcement action. Should you have any questions, please call Karen Kassouf at (216) 420-8050.

Sincerely,

Raymond D. Broussard  
Chief of Field Enforcement, CLAA

RDB/kek

cc: Northeast District Office, Ohio EPA  
Michael J. Krzywicki, Program Coordinator, CLAA  
Tom Rigo, Manager, Ohio EPA FOPS (Certified Mail # 70012510000506830761)  
Facility File and I:\envr\apc\inspections\American Recycling\Non-EAR.doc

DREW KOLER  
AMERICAN RECYCLING COMPANY  
P.O. BOX #27486  
CLEVELAND, OH 44127-0486

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CLEVELAND, OH 44127-0486

DREW KOLER  
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P.O. BOX #27486  
CLEVELAND, OH 44127-0486

TOM RIGO  
OHIO EPA  
LAZARUS GOVERNMENT CENTER  
P.O. 1049  
COLUMBUS, OH 43216-1049

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OHIO EPA  
LAZARUS GOVERNMENT CENTER  
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COLUMBUS, OH 43216-1049

TOM RIGO  
OHIO EPA  
LAZARUS GOVERNMENT CENTER  
P.O. 1049  
COLUMBUS, OH 43216-1049

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COLUMBUS, OH 43216-1049

**SERVING OHIO EPA  
AS AGENCY 13 FOR  
CUYAHOGA COUNTY**

**CERTIFIED MAIL 70012510000108472734  
RETURN RECEIPT REQUESTED**

January 25, 2002

DREW KOLER  
AMERICAN RECYCLING COMPANY  
P.O. BOX #27486  
CLEVELAND, OH 44127-0486

**REQUEST FOR INFORMATION**

Dear Mr. Koler:

On December 7, 2001, the Cleveland Local Air Agency (CLAA) issued a Letter of Warning requiring American Recycling to keep records of actual operations to demonstrate that daily emissions do not exceed de minimus limitations of 10 pounds per day in accordance with Ohio Administrative Code (OAC) 3745-15-05 (D).

To prove de minimus status, CLAA requires that you submit 30 days worth of these operations records to CLAA by February 17, 2002. If American Recycling emitted more than 10 lbs. in any one day, a Permit to Install (PTI) and Permit to Operate (PTO) application will be immediately required.

This letter is being issued in concurrence with Ohio EPA and does not excuse any violations of local, state and federal laws or regulations regarding air pollution control. Violations of air pollution control laws may be pursued in local court or referred to the Ohio EPA for an enforcement action. Should you have any questions, please call Karen Kassouf at (216) 420-8050.

Sincerely,

Raymond D. Broussard  
Chief of Field Enforcement, CLAA

RDB/kek

cc: Northeast District Office, Ohio EPA  
Michael J. Krzywicki, Program Coordinator, CLAA  
Tom Rigo, Manager, Ohio EPA FOPS (Certified Mail # 70012510000108472741)  
Facility File and I:\envr\apc\inspections\unassigned\American Recycling\R-CAP.doc

DREW KOLER  
AMERICAN RECYCLING  
COMPANY  
P.O. BOX #27486  
CLEVELAND, OH 44127-0486

DREW KOLER  
AMERICAN RECYCLING  
COMPANY  
P.O. BOX #27486  
CLEVELAND, OH 44127-0486

DREW KOLER  
AMERICAN RECYCLING  
COMPANY  
P.O. BOX #27486  
CLEVELAND, OH 44127-0486

**SERVING OHIO EPA  
AS AGENCY 13 FOR  
CUYAHOGA COUNTY**

**CERTIFIED MAIL 7001 0360 0000 5380 6298  
RETURN RECEIPT REQUESTED**

December 7, 2001

DREW KOLER  
AMERICAN RECYCLING COMPANY  
P.O. BOX #27486  
CLEVELAND, OH 44127-0486

**LETTER OF WARNING: RECORD KEEPING**

Dear Mr. Koler:

On November 29, 2001, the Cleveland Local Air Agency (CLAA) conducted an inspection of American Recycling Company located at 3203 West 71<sup>st</sup> Street in Cleveland. A CLAA representative inspected all air contaminant sources within your facility. A requirement of that inspection is that a compliance determination be completed for each air contaminant source. This letter serves as notification that you are operating sources in violation of applicable statutes, regulations, or permit conditions.

American Recycling Company's operation of the ARC Lamp Recycling System violates Ohio Administrative Code rule (OAC) rule 3745-15-05 (D), in that records of actual operation to demonstrate that daily emissions do not exceed 10 lbs/day were not kept.

Unless you undertake some type of corrective action with respect to the above noted violations, you will remain in non-compliance.

American Recycling Company must demonstrate that emissions do not exceed de minimis levels to ensure the Lamp Recycling System emits no more than 10 lbs/day of particulate emissions. The CLAA request that American Recycling begin record keeping upon receipt of this letter and send photocopies of records 30 days after receipt of this letter. The records should contain actual operation that demonstrate that the daily emissions from the source were maintained at or below the de minimis exemption level of 10 lbs/day. Records can be sent to the Enforcement Representative below:

Karen E. Kassouf  
Cleveland Local Air Agency  
1925 St. Clair Avenue NE  
Cleveland, Ohio 44114

Assistance with state and/or federal regulations, rules, laws or permit conditions can be provided at no charge through Ohio EPA Small Business Assistance Program (SBAP). SBAP can be contacted at <http://www.epa.state.oh.us/dapc/sba/sbaintro.html> or (614)644-4830. CLAA makes no guarantee that the facility will meet the qualifying guidelines established by the SBAP.

---

Facilities that want to investigate methods of pollution prevention to reduce raw material usage and waste production can contact the Ohio EPA Office of Pollution Prevention (OPP). OPP can be contacted at <http://www.epa.state.oh.us/opp> or (614)644-3469 and there is no charge for their services.

This letter is being issued in concurrence with Ohio EPA and does not excuse any violations of local, state and federal laws or regulations regarding air pollution control. Violations of air pollution control laws may be pursued in local court or referred to Ohio EPA or USEPA for an enforcement action. Should you have any questions, please call Karen E. Kassouf at (216) 420-8050.

Sincerely,

Michael J. Krzywicki  
Program Coordinator, CLAA

MJK/kek

cc: Northeast District Office, Ohio EPA  
Tom Rigo, Manager, Ohio EPA FOPS (Certified Mail # 7001036000053806267)  
Sheryl Slone, NEDO, Division of Hazardous Waste Management (Certified Mail #7001036000053806274)  
Randy Ohlemacher, CAS, Division of Hazardous Waste Management (Certified Mail #7001036000053806281)  
Facility File and I:\envr\apc\inspections\minorsource2001\American Recycling\WarningLetter.doc

DREW KOLER  
AMERICAN RECYCLING COMPANY  
P.O. BOX #27486  
CLEVELAND, OH 44127-0486

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DREW KOLER  
AMERICAN RECYCLING COMPANY  
P.O. BOX #27486  
CLEVELAND, OH 44127-0486

RANDY OHLEMACHER  
OHIO EPA, DHWM  
LAZARUS GOVERNMENT CENTER  
P.O. 1049

COLUMBIUS OH 43266-0118  
RANDY OHLEMACHER  
OHIO EPA, DHWM  
LAZARUS GOVERNMENT CENTER  
P.O. 1049

COLUMBIUS OH 43266-0118  
TOM RIGO  
OHIO EPA  
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OHIO EPA  
LAZARUS GOVERNMENT CENTER  
P.O. 1049

COLUMBIUS OH 43266-0118

Sheryl Slone  
Northeast District Office  
2110 E. Aurora Road  
Twinsburg, OH 44087-1969

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TOM RIGO  
OHIO EPA  
LAZARUS GOVERNMENT CENTER  
P.O. 1049

COLUMBIUS OH 43266-0118

## Claire Cerne

---

**From:** noreply@das.ohio.gov  
**Sent:** Thursday, January 5, 2023 9:40 AM  
**To:** nicole.patella@epa.ohio.gov  
**Cc:** Claire Cerne  
**Subject:** Ohio EPA File Review Checklist Records Request

**EXTERNAL EMAIL:** Open with EXTREME caution!

### There is a new submission for File Review Checklist.

Claire Cerne, We have received your request below. Please contact us if you have any additional questions. We will send a response when we have compiled the requested records. Contact information can be found at [epa.ohio.gov/help-center/edocument-search](http://epa.ohio.gov/help-center/edocument-search).

<b>Requester Name</b>	Claire Cerne				
<b>Affiliation</b>	Mannik and Smith Group				
<b>Address</b>	20600 Chagrin Blvd				
<b>City</b>	Shaker Heights				
<b>State</b>	Ohio				
<b>Zip</b>	44122				
<b>Requester Phone</b>	(216) 378-1490				
<b>Requester Email</b>	ccerne@manniksmithgroup.com				
<b>Data Grid</b>	<b>Name</b>	<b>Address</b>	<b>City</b>	<b>County</b>	<b>Email To</b>
	Vacant Lot	3202 W 71st St	Cleveland	Cuyahoga	nicole.patella@epa.ohio.gov
	Vacant lot southwest of 3202 W. 71st	Dearborn Avenue	Cleveland	Cuyahoga	nicole.patella@epa.ohio.gov
<b>Email Submission</b>	nicole.patella@epa.ohio.gov				

<b>Facility ID# or other identifying information</b>	
<b>From</b>	1900-01-01
<b>To</b>	2023-01-05
<b>You may list specific information you are requesting</b>	All files related to sites listed
<b>Division of Air Pollution Control (DAPC)</b>	General Correspondence,Air Permits,Permit Applications,Open Burning Program,Air Complaints,Reports: Compliance,Reports: Emission,Report: Inspection,Notice of violations (NOV) previous to 2007,Asbestos Program,Stack Tests
<b>Division of Surface Water (DSW)</b>	Notice of violations (NOV) previous to 2007,Permits / Inspection / Compliance,Permit Applications,Discharge Monitoring Reports (eDMR),Sludge / Biosolids,Water Quality Reports / TMDL's,Wetland and Stream Permitting (401),Storm Water,Sanitary Sewer Extension (SSX)
<b>Solid Waste Section (Formerly DSIWM)</b>	Construction & Demolition Debris (C&DD),Scrap Tires,Composting,Open Dumping,Infectious Waste,Landfills,Transfer Stations,Incinerators
<b>Hazardous Waste Section (Formerly DHWM)</b>	Notice of violations (NOV) previous to 2007,RCRA C-Hazardous Waste,RCRA Corrective Action Files,RCRA Groundwater Files,RCRA Closure Files,Cessation of Regulated Operations (CRO),Permitting Files
<b>Division of Environmental Response and Revitalization (DERR)</b>	Remedial Files,No Further Action (NFA) Files,Covenant Not to Sue (CNS) - Final,I. C. 5 Year Report,Operation & Maintenance (O&M),Risk Mitigation Plan (RMP)
<b>Division of Ground Waters (DGW):</b>	General Correspondance,Ground Water Characterization Data / Ambient Data,SWAP / WHP (Source Water Protection / Wellhead Protection)
<b>Division of Drinking Waters (DDW)</b>	General Correspondance,Lead and Copper Files,Plan approvals, well logs, etc.,Monthly Operating Reports (MORs),Notice of violations (NOV) previous to 2007

## Claire Cerne

---

**From:** Cleveland Public Records Center <clevelandoh@govqa.us>  
**Sent:** Thursday, January 5, 2023 9:29 AM  
**To:** Claire Cerne  
**Subject:** Public Safety - Public Records Request :: P000491-010523

**EXTERNAL EMAIL:** Open with EXTREME caution!

Dear Claire Cerne,

Thank you for your interest in public records of the City of Cleveland. Your request has been received and is being processed in accordance with the Ohio Sunshine Laws. Your request was received in this office on 1/5/2023 and has been given the reference number P000491-010523 for tracking purposes.

Records Requested: **The Mannik & Smith Group Inc. (MSG) is conducting a Phase I Environmental Site Assessment (ESA) of the property located at 3203 W 71st Street, Cleveland, Ohio. As part of the Phase I ESA, MSG requests any records that may have related to the site, including but not limited to spills, violations, inspections, hazardous material storage, water wells, septic systems, or above/ underground storage tanks.**

Your request will be forwarded to the relevant city department(s) to locate the information you seek and to determine the volume and any costs associated with satisfying your request. You will be contacted about the availability and/or provided with copies of the records in question. **PLEASE NOTE:** The public records law does not require a governmental body to create new information, to do legal research, or to answer questions.

You can monitor the progress of your request at the link below and you will receive an email when your request has been completed. Again, thank you for using the [Cleveland Public Records Center](#).

City of Cleveland - Public Records

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To monitor the progress or update this request please log into the [Cleveland Public Records Center](#).



**CITY OF CLEVELAND**  
Mayor Justin M. Bibb

---

3208  
+ 3203  
W. 7/5

# CITY OF CLEVELAND

DEPARTMENT OF PUBLIC SAFETY  
DIVISION OF FIRE  
FIRE PREVENTION BUREAU

Jan 10 19 97

meeting/Report

3203 WEST 71 ST.

A meeting was held at city Hall this date. This meeting was concerning plans submitted by Advance Handling & Storage Product. The Building Dept requested more detail information to review plans submitted. A team inspection will be set-up by the Building Dept.

Inspector:

R. G. G. G.

**CLEVELAND FIRE DEPARTMENT**

Company No. \_\_\_\_\_

Name of Business S.S.D. Distributor Date 10-3-93 Last Inspection Date \_\_\_\_\_

Address 3208 W 71 Occupancy \_\_\_\_\_

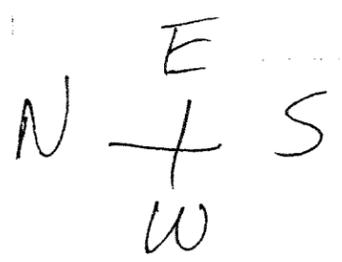
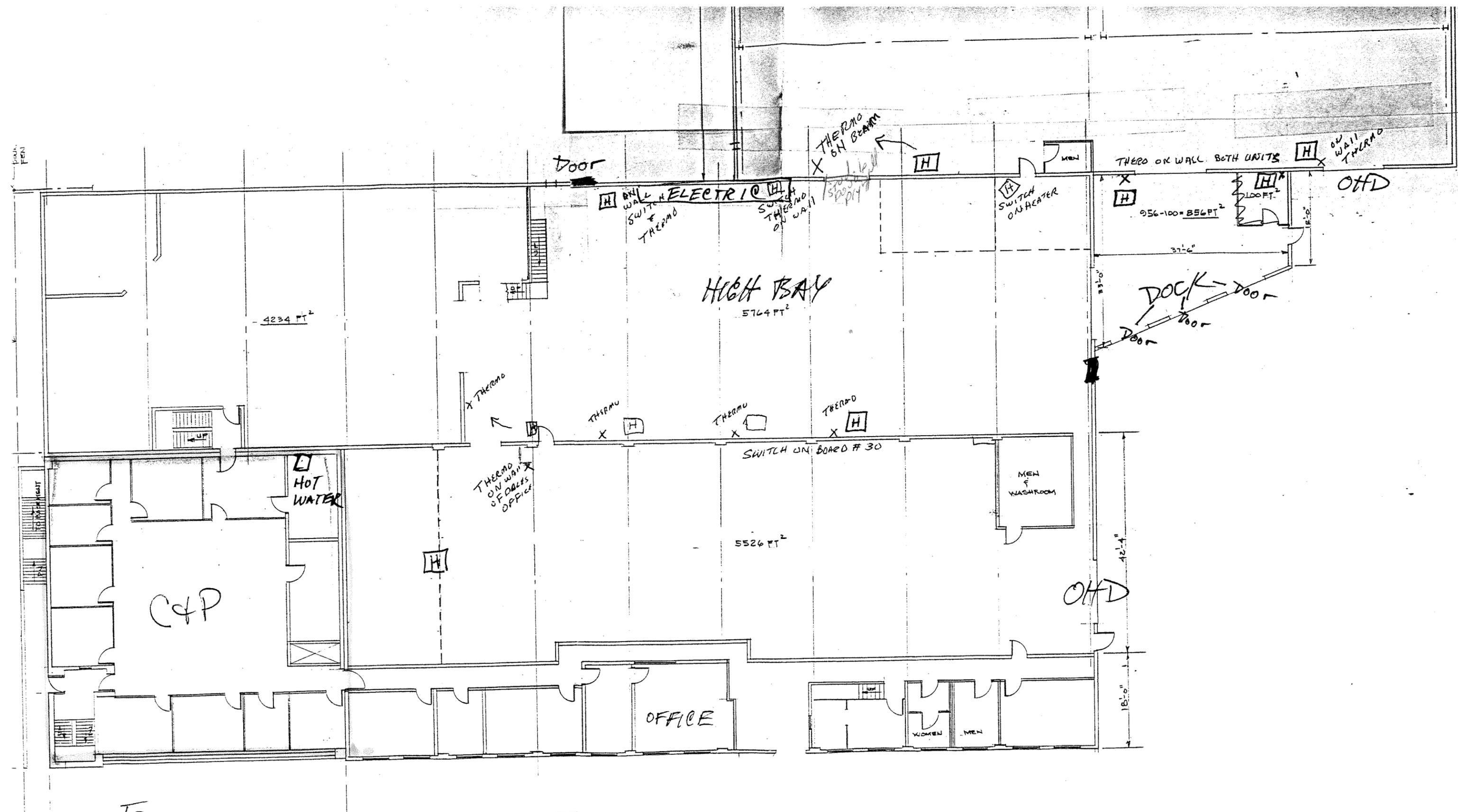
Name of Owner/Manager W 71 st Associates Emergency Phone No. \_\_\_\_\_

Building Height \_\_\_\_\_ Dimensions L \_\_\_\_\_ W \_\_\_\_\_ Construction Type  
 I  II  III  IV

GENERAL		Yes	No	VIOLATIONS/REMARKS
1. Roof Openings No. <u>13</u>	Type <u>Sky light</u>	✓		
2. Elevators No. _____	Type _____		✓	
3. Exits Provided & Maintained No. <u>4</u>			✓	<u>Light out main entrance locked</u>
4. Stairways Provided & Maintained Enclosed _____ Open _____			✓	<u>wood under in stairway</u>
5. Extinguishers Provided & Maintained Type <u>ABC</u>		✓		
6. Sprinkler System* O.S. & Y Location _____	Type _____		✓	
7. Standpipe* Location of Outlet _____	Type _____		✓	
8. Fire Department Connections* Location _____			✓	
9. Fire Alarm Control Panel _____		✓		<u>located Rear building west wall</u>
10. Other Fire Control Systems* Type _____				
<b>ELECTRICAL &amp; HEATING</b>				
1. Proper Wiring/Fuses _____				
2. Proper Clearance for Heating Type _____				
3. Proper Installation of Water Tank Type <u>Gas</u>			✓	<u>Disconnected S.E. basement</u>
4. Gas Shutoff Accessible Location _____		✓		<u>S.E. Corner outside</u>
5. Electrical Shutoff Provided Location <u>Interior East wall</u>		✓		<u>High Voltage box outside south corner</u>
<b>HOUSEKEEPING</b>				
1. Good Housekeeping _____		✓		<u>Combustible store in empty office</u>
2. Permits _____		✓		<u>2 PG - West Cor</u>
3. Proper Storage of Compressed Gases _____				
4. Proper Storage of Flammable Liquids _____		✓		<u>Oil cans in building</u>
5. Proper Storage of Oily Rags _____				
6. Proper Storage of Corrosives _____				
7. Proper Storage of Oxidizers _____				
8. Proper Storage of Other Combustibles _____				

\*Requires Building Diagram  
 Violation Notice Issued \_\_\_\_\_ Reinspection Date \_\_\_\_\_  
 Referred to F.P.B. \_\_\_\_\_ Inspected By Allen P. Fred  
 Special Hazard  Major  Assist  Ordinary  Standard





Green 3 stories  
 yellow 2 stories

3208 W. 71<sup>ST</sup>

CITY OF CLEVELAND

DEPARTMENT OF PUBLIC SAFETY

DIVISION OF FIRE

FIRE PREVENTION BUREAU

11-30

1993

3  
3208W71

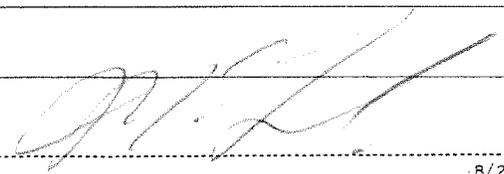
Bldg. owner

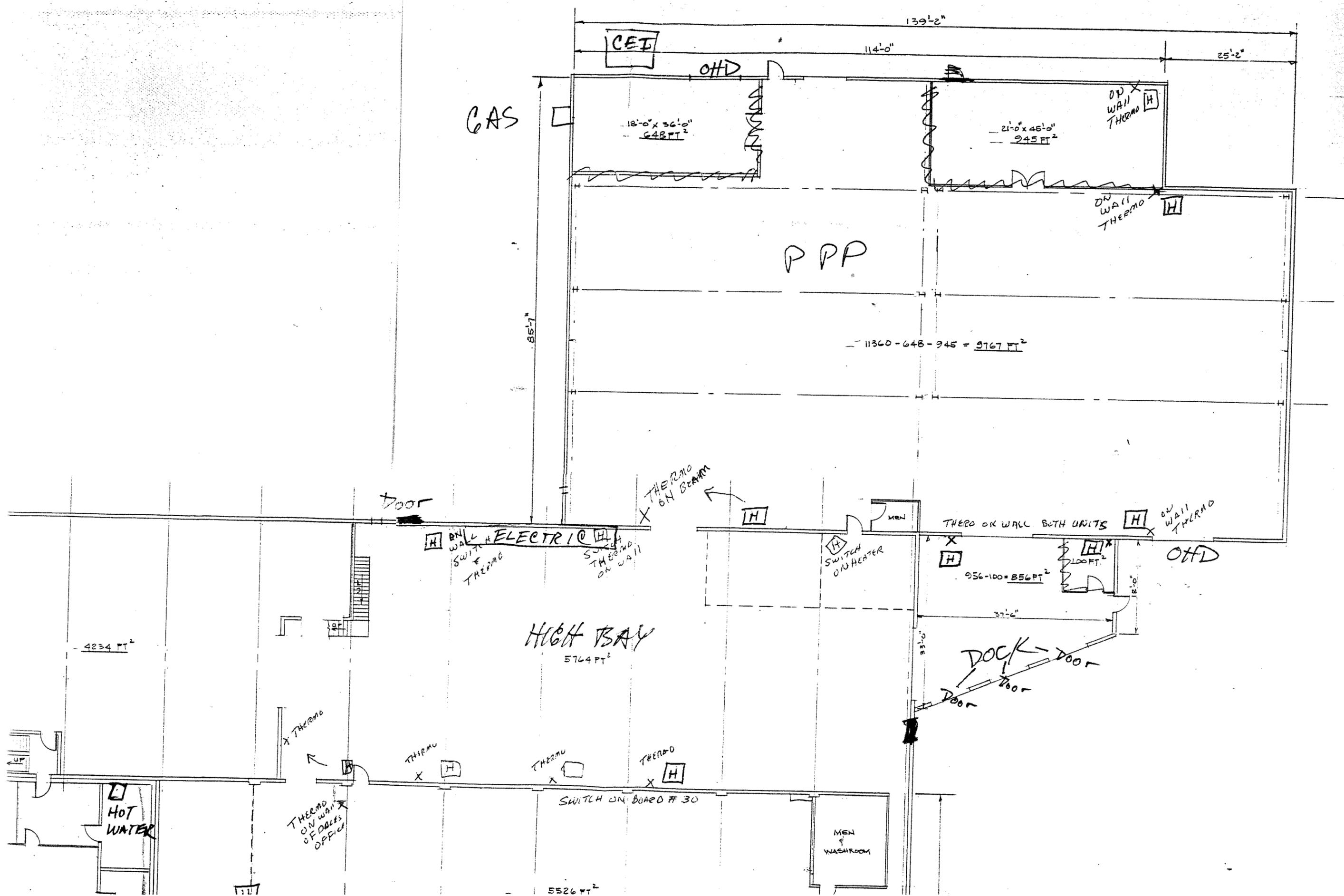
Meeting to Herb Davis re

Violation letter 10-15-93

Building now vacant per per Davis violations  
will be abated with new occupants

Inspector: \_\_\_\_\_





GAS

CET

OHD

18'-0" x 36'-0"  
648 FT<sup>2</sup>

21'-0" x 45'-0"  
945 FT<sup>2</sup>

ON WALL THERMO

ON WALL THERMO

PPP

11360 - 648 - 945 = 9767 FT<sup>2</sup>

85'-7"

139'-2"

114'-0"

25'-2"

Door

THERMO ON BEAM

ON WALL SWITCH & THERMO  
ELECTRIC  
ON WALL SWITCH & THERMO

ON WALL SWITCH ON HEATER

THERMO ON WALL BOTH UNITS

ON WALL THERMO

OHD

956 - 100 = 856 FT<sup>2</sup>

37'-6"

DOCK DOOR

4234 FT<sup>2</sup>

HIGH BAY  
5764 FT<sup>2</sup>

THERMO

THERMO

THERMO

THERMO

SWITCH ON BOARD # 30

HOT WATER

THERMO ON WALL OF OFFICE

MEN WASHROOM

5526 FT<sup>2</sup>

## Claire Cerne

---

**From:** LEPC Committee <lepc@cuyahogacounty.us>  
**Sent:** Thursday, January 5, 2023 11:00 AM  
**To:** Claire Cerne  
**Subject:** Records Request 1/5/23

**EXTERNAL EMAIL:** Open with EXTREME caution!

Good morning,

Our office has no chemical records or spills for the requested location:

Vacant Lot	3202	W 71st St.	Cleveland	44102
------------	------	------------	-----------	-------

Thank you,

Local Emergency Planning Committee (LEPC)  
Cuyahoga County Office of Emergency Management  
9300 Quincy Ave, Floor  
Cleveland, OH 44106  
Spill Line: 216-771-1365  
LEPC/Hazmat Info: 216-443-7597  
Email: [LEPC@cuyahogacounty.us](mailto:LEPC@cuyahogacounty.us)



## MEMORANDUM

To: (File)

From: Elissa Miller (Reviewer); Ohio EPA Legal Office.

Date: February 2, 2023

These files were reviewed to determine whether records contained herein are confidential or otherwise exempt from the disclosure obligations of Ohio Revised Code (ORC) 149.43

**X**    **All files are public**

No records were removed based on this review.

          **Some files are not public**

Records were removed or redacted for the reasons given below:

          **Attorney- Client Privilege**, State ex rel. Leslie v. Ohio Hous. Fin. Agency, 105 Ohio St.3d 261, 265 (2005).

          **Attorney Work Product**, Squire, Sanders & Dempsey, L.L.P. v. Givaudan Flavors Corp., 127 Ohio St.3d 161 (2010).

          **Confidential Law Enforcement Investigatory Records**, ORC 149.43(A)(1)(h).

          **Social Security Numbers**, State ex rel. Office of Montgomery County Pub. Defender v. Siroki, 108 Ohio St.3d 207 (2006).

          **Release Otherwise Prohibited by Law**, (i.e. trade secret, infrastructure and security records, etc.), ORC 149.43(A)(1)(v).

          **Other Specified Reason:**

          **All files are confidential**

Should you have any questions regarding this issue, please contact Ohio EPA's Office of Legal Services.

(This memorandum is to remain visibly attached to this file.)

AMERICAN RECYCLING COMPANY  
OHD 000 720 110  
CUYAHOGA COUNTY  
CLEVELAND

#1

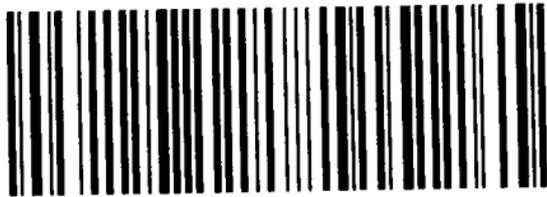
HW

*Stead.*

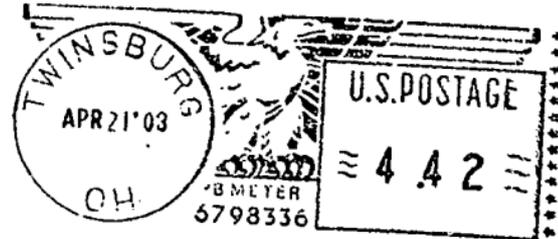
UP 0230  
No. H163



**CERTIFIED MAIL™**



7002 2030 0007 0454 4901



DESI,  
PLS. RESEND  
CERTIFIED TO:  
DREW @  
13932 OAK BROOK  
DR.  
N. ROYALTON OH  
44133

Keep this envelop for file.

Mr. Drew Koler  
American Recycling Co., LTD.  
P.O. Box #27486  
Cleveland, OH 44127-0486

RECEIVED  
APR 28 2003  
OHIO EPA

AMER486 441273107 1303 18 04/24/03  
RETURN TO SENDER  
: AMERICAN RECYCLING  
BOX CLOSED  
UNABLE TO FORWARD  
RETURN TO SENDER

44087/1363



PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT  
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MR. DREW KOLER  
AMERICAN RECYCLING CO., LTD.  
P.O. BOX #27486  
CLEVELAND OH 44127-0486

2. Article Number 7002 2030 0007 0454 4901  
(Transfer from service label)

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

Agent

Addressee

B. Received by (*Printed Name*)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes

If YES, enter delivery address below:  No

3. Service Type

Certified Mail

Express Mail

Registered

Return Receipt for Merchandise

Insured Mail

C.O.D.

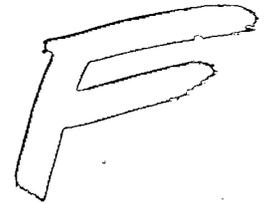
4. Restricted Delivery? (*Extra Fee*)

Yes

S. SLONE 4/21/03



State of Ohio Environmental Protection Agency  
Northeast District Office



2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

September 6, 2002

RE: AMERICAN RECYCLING CO., LTD.  
OHD000720110  
CUYAHOGA COUNTY

Mr. Drew Koler  
American Recycling Co., LTD.  
P.O. Box #27486  
Cleveland, OH 44127-0486

Dear Mr. Koler:

On September 5, 2002, during a site visit, Randy Ohlemacher and I requested to review any records related to the current inventory of incoming materials at American Recycling Company (ARC). This would include information that reveals who sent which materials (quantity and description) and when, for everything currently on-site. You indicated it would take you some time to pull those records together. You agreed to have copies of these records for us by Tuesday, September 10, 2002. We indicated we would have a representative from our office pick them up at your facility that afternoon before 2:30 p.m. approximately.

Should you have any questions related to this letter, please feel free to contact me at (330) 963-1226.

Sincerely,

Sheryl K. Slone, P.E.  
Environmental Engineer  
Division of Hazardous Waste Management

SKS:ddw

ec: Marcus Glasgow, AGO  
Greg Poulos, AGO  
Natalie Oryshkewych, NEDO, DHWM  
Randy Ohlemacher, ISU, DHWM  
Jeanette Smith, CAS, DHWM  
Harry Sarvis, CO, DHWM

**File Review Request Form**

Record Number: **9136**

Date of Request: <b>08-29-02</b>	IN-HOUSE COPYING Date Copied: / / No. Pages: _____ Date Mailed: _____
Contact Date(s): <b>09-12-02</b>	
No. Of Files in Review <b>1</b>	
Date of Review:	
Completion Date:	
Date Emailed to POC: <b>09-12-02</b>	

Name of Facility/Site: **American Recycling Co Ltd (ODH 000720110)**

County: **Cuyahoga**

Individual/Organization Requesting Review: **Paul Cottrell, Environmental Recycling**

Status: Files  No Files  Enforcement/Lit.  Legal Review Needed\*

Lily's Comments: (\*include time frame for legal review): **Please let me know if there are files and the size - thanks**

<input checked="" type="checkbox"/> <b>DSW/IWW</b> (POC/BU) Release: _____ Return: _____	<input checked="" type="checkbox"/> <b>DHWM</b> (POC/BU) Release: _____ Return: _____	<input checked="" type="checkbox"/> <b>DDAGW/GW</b> (POC/BU) Release: _____ Return: _____
<input checked="" type="checkbox"/> <b>DSW/PWW</b> (POC/BU) Release: _____ Return: _____	<input checked="" type="checkbox"/> <b>DSIWM</b> (POC/BU) Release: _____ Return: _____	<input type="checkbox"/> <b>DDAGW/DW</b> (POC/BU) Release: _____ Return: _____
<input checked="" type="checkbox"/> <b>DSW/PT</b> (POC/BU) Release: _____ Return: _____	<input checked="" type="checkbox"/> <b>DERR</b> (POC/BU) Release: _____ Return: _____	<input type="checkbox"/> <b>DAPC</b> (POC/BU) Release: _____ Return: _____
<input checked="" type="checkbox"/> <b>DSW/WQ</b> (POC/BU) Release: _____ Return: _____		

<input checked="" type="checkbox"/> How far back do you want to go & from what date? Starting Date: <u>current</u>	<input type="checkbox"/> Specific document or report? _____
<input type="checkbox"/> Info re: outside copying firm.	<input type="checkbox"/> Archived files? Y/N
<input checked="" type="checkbox"/> Bound Docs &/or blueprints? Y	<input type="checkbox"/> Oversized copying by outside service. Y/N

POC Comments: \_\_\_\_\_ Amount of Involved Files: \_\_\_\_\_

**Return form via e-mail to the Public Information Specialist within three (3) days.**



**Environmental  
Recycling™**

RECEIVED  
SEP - 5 2002  
OHIO EPA NEDO

August 29, 2002

Ohio EPA  
Northeast District Office  
2110 E. Aurora Road  
Twinsburg, OH 44087

Dear Lilly:

Under the Freedom of Information Act, I would like to look at the current file of

American Recycling Co., LTD.  
PO Box 27486  
Cleveland, OH 44127-0486  
OHD000720110

The information that I am looking for would include past inspections, violations, corrective actions taken, and any other locations that are affiliated with this company.

Thank you for your time.

Sincerely,

Environmental Recycling

Paul Cottrell  
Vice-President



State of Ohio Environmental Protection Agency

Northeast District Office

2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

# FAX Transmittal Sheet

To: DREW KOLAR ADAM B.

Fax Number: 216/524/2090

Subject: PREL SAMPLE RESULTS

- AS REQUESTED -

From: SHERRY SLOVE

Date: 8/29/02

Pages to Follow: 14  
(Include Cover Sheet)

If you have any questions, call (330) 963-1200, ask for sender

Return Fax number (330)487-0769

**REPORT NARRATIVE  
METALS**

**KEMRON Login No: L0207407**

**METHOD**

**Analysis:** SW-846 6010/6020/7000

**HOLDING TIMES**

**Sample Preparation:** All holding times were met.

**Sample Analysis:** All holding times were met.

**PREPARATION**

Sample preparation proceeded normally.

**CALIBRATION**

**Initial calibrations:** All acceptance criteria were met.

**Alternate Source Standards:** All acceptance criteria were met.

**Continuing Calibration :** All acceptance criteria were met.

**BATCH QA/QC**

**Method Blank:** All acceptance criteria were met.

**Laboratory Control Sample:** All acceptance criteria were met.

**SAMPLES**

WG123440 - S = Due to the original sample concentration within 20 % of the regulatory limit, mercury was analyzed by the method of standard additions.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and KEMRON Environmental Services, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Analyst: MMB

REVIEWED

*Maren Beery*

DATE:

*08/15/02*

Rev. 6/00

TEST CERTIFICATE  
KEMRON Environmental Services  
109 Starlite Park  
Marietta, Ohio 45750  
Phone: (740) 373-4071

OH Environmental Protection Agency/DERR  
2110 East Aurora Road  
Twinsburg, OH 44087

Login #: L0207407  
Report Date: 08/15/02  
Work ID: KNE-071002-HW/ARC  
Date Received: 07/12/02

Attention: Sheri Slone

PO Number:  
Account Number: OEPA-083

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L0207407-01	SF-02	L0207407-02	SF-03
L0207407-03	SF-04	L0207407-04	SF-05
L0207407-05	SF-06	L0207407-06	SF-07
L0207407-07	SF-08	L0207407-08	SF-09
L0207407-09	SF-09D	L0207407-10	SF-10
L0207407-11	SF-10MS	L0207407-12	SF-10MSD
L0207407-13	SF-11	L0207407-14	SF-12
L0207407-15	SF-13	L0207407-16	SF-13D
L0207407-17	SF-14	L0207407-18	SF-15
L0207407-19	SF-26	L0207407-20	SF-28
L0207407-21	SF-16	L0207407-22	SF-17
L0207407-23	SF-18	L0207407-24	SF-18D
L0207407-25	SF-21	L0207407-26	SF-29
L0207407-27	SF-29MS	L0207407-28	SF-29MSD
L0207407-29	SF-30	L0207407-30	SF-31
L0207407-31	SF-34	L0207407-32	SF-40
L0207407-33	EB-1		

RECEIVED  
AUG 19 2002  
OHIO EPANEDO

All results on solids/sludges are reported on a dry weight basis, where applicable,  
unless otherwise specified. This report shall not be reproduced,  
except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

  
Certified By  
David L. Bungarner  
Laboratory Director

Login #L0207407  
August 15, 2002 03:26 pm

KEMRON ENVIRONMENTAL SERVICES

TCLP METALS

Lab Sample ID: L0207407-01  
Client Sample ID: SF-02  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 09:53  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 07/30/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.0889		0.00500	0.2	7470A\METHOD\1311	08/01/02	08/04/02	15:24	N/A

TCLP METALS

Lab Sample ID: L0207407-02  
Client Sample ID: SF-03  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 09:56  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 07/30/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.0868		0.0100	0.2	7470A\METHOD\1311	08/01/02	08/04/02	15:49	N/A

TCLP METALS

Lab Sample ID: L0207407-03  
Client Sample ID: SF-04  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 10:02  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 07/30/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.0817		0.00500	0.2	7470A\METHOD\1311	08/01/02	08/04/02	15:27	N/A

RL = Reporting Limit

Login #L0207407  
August 15, 2002 03:26 pm

KEMRON ENVIRONMENTAL SERVICES

TCLP METALS

Lab Sample ID: L0207407-04  
Client Sample ID: SF-05  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 10:05  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 07/30/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.145		0.0250	0.2	7470A\METHOD\1311	08/13/02	08/14/02	16:06	N/A

TCLP METALS

Lab Sample ID: L0207407-05  
Client Sample ID: SF-06  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 10:06  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 07/30/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.124		0.0100	0.2	7470A\METHOD\1311	08/01/02	08/04/02	15:52	N/A

TCLP METALS

Lab Sample ID: L0207407-06  
Client Sample ID: SF-07  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 10:12  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 07/30/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.0598		0.00500	0.2	7470A\METHOD\1311	08/01/02	08/04/02	15:31	N/A

RL = Reporting Limit

Login #L0207407  
August 15, 2002 03:26 pm

KEMRON ENVIRONMENTAL SERVICES

TCLP METALS

Lab Sample ID: L0207407-07  
Client Sample ID: SF-08  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 10:17  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 07/30/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.106		0.0100	0.2	7470A\METHOD\1311	08/01/02	08/04/02	15:53	N/A

TCLP METALS

Lab Sample ID: L0207407-08  
Client Sample ID: SF-09  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 10:25  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 07/30/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.0946		0.0250	0.2	7470A\METHOD\1311	08/13/02	08/14/02	16:08	N/A

TCLP METALS

Lab Sample ID: L0207407-09  
Client Sample ID: SF-09D  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 10:25  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 07/30/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.133		0.0250	0.2	7470A\METHOD\1311	08/13/02	08/14/02	16:10	N/A

RL = Reporting Limit

Login #L0207407  
August 15, 2002 03:26 pm

KEMRON ENVIRONMENTAL SERVICES

TCLP METALS

Lab Sample ID: L0207407-10  
Client Sample ID: SF-10  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 10:30  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 07/30/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.110		0.0100	0.2	7470A\METHOD\1311	08/01/02	08/04/02	15:57	N/A

TCLP METALS

Lab Sample ID: L0207407-11  
Client Sample ID: SF-10MS  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 10:30  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 07/30/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.126		0.0100	0.2	7470A\METHOD\1311	08/01/02	08/04/02	15:58	N/A

TCLP METALS

Lab Sample ID: L0207407-12  
Client Sample ID: SF-10MSD  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 10:30  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 07/30/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.135		0.0100	0.2	7470A\METHOD\1311	08/01/02	08/04/02	16:00	N/A

RL = Reporting Limit

Login #L0207407  
August 15, 2002 03:26 pm

KEMRON ENVIRONMENTAL SERVICES

TCLP METALS

Lab Sample ID: L0207407-13  
Client Sample ID: SF-11  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 10:38  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 07/30/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.0999		0.0100	0.2	7470A\METHOD\1311	08/01/02	08/04/02	16:04	N/A

TCLP METALS

Lab Sample ID: L0207407-14  
Client Sample ID: SF-12  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 11:13  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 07/30/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.0569		0.0100	0.2	7470A\METHOD\1311	08/01/02	08/04/02	16:05	N/A

TCLP METALS

Lab Sample ID: L0207407-15  
Client Sample ID: SF-13  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 11:20  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 07/30/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.121		0.0250	0.2	7470A\METHOD\1311	08/13/02	08/14/02	16:11	N/A

RL = Reporting Limit

Login #L0207407  
August 15, 2002 03:26 pm

KEMRON ENVIRONMENTAL SERVICES

TCLP METALS

Lab Sample ID: L0207407-16  
Client Sample ID: SF-13D  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 11:20  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 07/30/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.109		0.0250	0.2	7470A\METHOD\1311	08/13/02	08/14/02	16:12	N/A

TCLP METALS

Lab Sample ID: L0207407-17  
Client Sample ID: SF-14  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 11:25  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 07/30/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.119		0.0100	0.2	7470A\METHOD\1311	08/01/02	08/04/02	16:09	N/A

TCLP METALS

Lab Sample ID: L0207407-18  
Client Sample ID: SF-15  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 11:29  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 08/06/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.127		0.0100	0.2	7470A\METHOD\1311	08/07/02	08/09/02	09:45	N/A

RL = Reporting Limit

Login #L0207407  
August 15, 2002 03:26 pm

KEMRON ENVIRONMENTAL SERVICES

**TCLP METALS**

Lab Sample ID: L0207407-19  
Client Sample ID: SF-26  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 11:35  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 08/06/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.0921		0.0100	0.2	7470A\METHOD\1311	08/07/02	08/09/02	09:48	N/A

**TCLP METALS**

Lab Sample ID: L0207407-20  
Client Sample ID: SF-28  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 11:38  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 08/06/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.139		0.0250	0.2	7470A\METHOD\1311	08/13/02	08/14/02	16:14	N/A

**TCLP METALS**

Lab Sample ID: L0207407-21  
Client Sample ID: SF-16  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 11:42  
Units: mg/L

COC Info: 31851/  
TCLP Ext. Date: 08/06/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.110		0.0100	0.2	7470A\METHOD\1311	08/07/02	08/09/02	09:51	N/A

RL = Reporting Limit

Login #L0207407  
August 15, 2002 03:26 pm

KEMRON ENVIRONMENTAL SERVICES

TCLP METALS

Lab Sample ID: L0207407-22  
Client Sample ID: SF-17  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 11:48  
Units: mg/L

COC Info: 31864/  
TCLP Ext. Date: 08/06/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.130		0.0100	0.2	7470A\METHOD\1311	08/07/02	08/09/02	09:53	N/A

TCLP METALS

Lab Sample ID: L0207407-23  
Client Sample ID: SF-18  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 11:54  
Units: mg/L

COC Info: 31864/  
TCLP Ext. Date: 08/06/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.165	S	0.0250	0.2	7470A\METHOD\1311	08/13/02	08/14/02	17:17	N/A

TCLP METALS

Lab Sample ID: L0207407-24  
Client Sample ID: SF-18D  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 11:54  
Units: mg/L

COC Info: 31864/  
TCLP Ext. Date: 08/06/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.175	S	0.0250	0.2	7470A\METHOD\1311	08/13/02	08/14/02	17:22	N/A

RL = Reporting Limit

Login #L0207407  
August 15, 2002 03:26 pm

KEMRON ENVIRONMENTAL SERVICES

TCLP METALS

Lab Sample ID: L0207407-25  
Client Sample ID: SF-21  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 13:16  
Units: mg/L

COC Info: 31864/  
TCLP Ext. Date: 08/06/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.150		0.0250	0.2	7470A\METHOD\1311	08/13/02	08/14/02	16:23	N/A

TCLP METALS

Lab Sample ID: L0207407-26  
Client Sample ID: SF-29  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 13:21  
Units: mg/L

COC Info: 31864/  
TCLP Ext. Date: 08/06/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.188	S	0.0250	0.2	7470A\METHOD\1311	08/13/02	08/14/02	17:32	N/A

TCLP METALS

Lab Sample ID: L0207407-27  
Client Sample ID: SF-29MS  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 13:21  
Units: mg/L

COC Info: 31864/  
TCLP Ext. Date: 08/06/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.161		0.0250	0.2	7470A\METHOD\1311	08/13/02	08/14/02	16:25	N/A

RL = Reporting Limit

Login #L0207407  
August 15, 2002 03:26 pm

KEMRON ENVIRONMENTAL SERVICES

TCLP METALS

Lab Sample ID: L0207407-28  
Client Sample ID: SF-29MSD  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 13:21  
Units: mg/L

COC Info: 31864/  
TCLP Ext. Date: 08/06/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.217		0.0250	0.2	7470A\METHOD\1311	08/13/02	08/14/02	16:27	N/A

TCLP METALS

Lab Sample ID: L0207407-29  
Client Sample ID: SF-30  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 13:25  
Units: mg/L

COC Info: 31864/  
TCLP Ext. Date: 08/06/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.159		0.0100	0.2	7470A\METHOD\1311	08/07/02	08/09/02	10:26	N/A

TCLP METALS

Lab Sample ID: L0207407-30  
Client Sample ID: SF-31  
Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
Collected: 07/10/02 13:27  
Units: mg/L

COC Info: 31864/  
TCLP Ext. Date: 08/06/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.139		0.0100	0.2	7470A\METHOD\1311	08/07/02	08/09/02	10:27	N/A

RL = Reporting Limit

Login #L0207407  
 August 15, 2002 03:26 pm

KEMRON ENVIRONMENTAL SERVICES

TCLP METALS

Lab Sample ID: L0207407-31  
 Client Sample ID: SF-34  
 Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
 Collected: 07/10/02 13:31  
 Units: mg/L

COC Info: 31864/  
 TCLP Ext. Date: 08/06/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.0532		0.0500	0.2	7470A\METHOD\1311	08/07/02	08/09/02	10:23	N/A

TCLP METALS

Lab Sample ID: L0207407-32  
 Client Sample ID: SF-40  
 Site/Work ID: KNE-071002-HW/ARC

Matrix: Leachate  
 Collected: 07/10/02 13:35  
 Units: mg/L

COC Info: 31864/  
 TCLP Ext. Date: 08/06/02

Analyte	Result	Qualifiers	RL	Regulatory Limit	Method	Prep. Date	Analysis Date	Time	Dil Type
Mercury, TCLP.....	0.132		0.0100	0.2	7470A\METHOD\1311	08/07/02	08/09/02	10:28	N/A

Lab Sample ID: L0207407-33  
 Client Sample ID: EB-1  
 Site/Work ID: KNE-071002-HW/ARC

Matrix: Water  
 Collected: 07/10/02 13:48

COC Info: 31864/

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Mercury.....	mg/L	0.000248		0.000200	1	N/A	MMB	07/26/02	11:54	7470A\METHO

RL = Reporting Limit

Order #: 02-07-407  
 August 15, 2002 03:26 pm

**KEMRON ENVIRONMENTAL SERVICES  
 WORK GROUPS**

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Date Collected	Department
WG121990	R299777	L0207407-33		Water	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122045	R299777	L0207407-33		Water	Mercury, Total	7470A	10-JUL-2002	Metals - AA
WG122327	R304287	L0207407-01		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122327	R304287	L0207407-02		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122327	R304287	L0207407-03		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122327	R309303	L0207407-04		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122327	R304287	L0207407-05		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122327	R304287	L0207407-06		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122327	R304287	L0207407-07		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122327	R309303	L0207407-08		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122327	R309303	L0207407-09		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122327	R304287	L0207407-10		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122327	R304287	L0207407-11		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122327	R304287	L0207407-12		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122327	R304287	L0207407-13		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122327	R304287	L0207407-14		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122327	R309303	L0207407-15		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122327	R309303	L0207407-16		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122327	R304287	L0207407-17		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122472	R304287	L0207407-01		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122472	R304287	L0207407-02		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122472	R304287	L0207407-03		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122472	R304287	L0207407-05		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122472	R304287	L0207407-06		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122472	R304287	L0207407-07		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122472	R304287	L0207407-10		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122472	R304287	L0207407-11		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122472	R304287	L0207407-12		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122472	R304287	L0207407-13		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122472	R304287	L0207407-14		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122472	R304287	L0207407-17		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122579	R304287	L0207407-01		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG122579	R304287	L0207407-02		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG122579	R304287	L0207407-03		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG122579	R304287	L0207407-05		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG122579	R304287	L0207407-06		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG122579	R304287	L0207407-07		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG122579	R304287	L0207407-10		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG122579	R304287	L0207407-11		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG122579	R304287	L0207407-12		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG122579	R304287	L0207407-13		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA

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**KEMRON ENVIRONMENTAL SERVICES  
 WORK GROUPS**

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Date Collected	Department
WG122579	R304287	L0207407-14		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG122579	R304287	L0207407-17		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG122763	R307053	L0207407-18		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122763	R307053	L0207407-19		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122763	R309303	L0207407-20		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122763	R307053	L0207407-21		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122763	R307053	L0207407-22		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122763	R309303	L0207407-23		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122763	R309303	L0207407-24		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122763	R309303	L0207407-25		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122763	R309303	L0207407-26		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122763	R309303	L0207407-27		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122763	R309303	L0207407-28		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122763	R307053	L0207407-29		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122763	R307053	L0207407-30		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122763	R307053	L0207407-31		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122763	R307053	L0207407-32		Leachate	Mercury, TCLP	7470A	10-JUL-2002	TCLP Prep.
WG122863	R307053	L0207407-18		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122863	R307053	L0207407-19		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122863	R307053	L0207407-21		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122863	R307053	L0207407-22		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122863	R307053	L0207407-29		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122863	R307053	L0207407-30		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122863	R307053	L0207407-31		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG122863	R307053	L0207407-32		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG123000	R307053	L0207407-18		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG123000	R307053	L0207407-19		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG123000	R307053	L0207407-21		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG123000	R307053	L0207407-22		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG123000	R307053	L0207407-29		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG123000	R307053	L0207407-30		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG123000	R307053	L0207407-31		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG123000	R307053	L0207407-32		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG123296	R309303	L0207407-04		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG123296	R309303	L0207407-08		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG123296	R309303	L0207407-09		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG123296	R309303	L0207407-15		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG123296	R309303	L0207407-16		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG123296	R309303	L0207407-20		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG123296	R309303	L0207407-23		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG123296	R309303	L0207407-24		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion

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**KEMRON ENVIRONMENTAL SERVICES  
WORK GROUPS**

<b>Work Group</b>	<b>Run ID</b>	<b>Sample</b>	<b>Dil Type</b>	<b>Matrix</b>	<b>Product</b>	<b>Method</b>	<b>Date Collected</b>	<b>Department</b>
WG123296	R309303	L0207407-25		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG123296	R309303	L0207407-26		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG123296	R309303	L0207407-27		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG123296	R309303	L0207407-28		Leachate	DIG-METALS	7470A	10-JUL-2002	Digestion
WG123440	R309303	L0207407-04		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG123440	R309303	L0207407-08		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG123440	R309303	L0207407-09		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG123440	R309303	L0207407-15		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG123440	R309303	L0207407-16		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG123440	R309303	L0207407-20		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG123440	R309303	L0207407-23		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG123440	R309303	L0207407-24		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG123440	R309303	L0207407-25		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG123440	R309303	L0207407-26		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG123440	R309303	L0207407-27		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA
WG123440	R309303	L0207407-28		Leachate	Mercury, TCLP	7470A	10-JUL-2002	Metals - AA

**KEMRON Environmental Services, Inc.**  
**List of Valid Qualifiers**  
**August 5, 2002**

***Standard Qualifiers***

These are KEMRON's Standard Report Qualifiers

B	Present in the method blank	NS	Not spiked
C	Confirmed by GC/MS	P	Concentration >40% difference between The two GC columns
CG	Confluent growth	QNS	Quantity not sufficient to perform analysis
D	The analyte was quantified at a secondary dilution factor	RA	Re analysis confirms reported results
DL	Surrogate or spike was diluted out	RE	Re analysis confirms sample matrix interference
E	Estimated concentration due to sample matrix interference	S	Analyzed by method of standard addition
FL	Free liquid	SMI	Sample matrix interference on surrogate
I	Semi-quantitative result, out of instrument calibration range	SP	Reported results are for spike compounds only
J	Present below nominal reporting limit	TNTC	Too numerous to count
L	Sample reporting limits elevated due to matrix interference	U	Analyzed for but not detected
N	Tentatively Identified Compound (TIC)	W	Post-digestion spike for furnace AA out of control limits
NA	Not applicable	X	Exceeds regulatory limit
ND	Not detected at or above the reporting limit (RL)	Z	Can not be resolved from isomer.***
NF	Not found	+	Correlation coefficient for the MSA is less than 0.995
NFL	No free liquid	<	Less than
NI	Non-ignitable	>	Greater than
		*	Surrogate or spike compound out of range

**\*\*\* Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene
3. N-nitrosodiphenylamine cannot be separated from diphenylamine
4. 3-Methyphenol and 4-Methyphenol are unresolvable compounds
5. m-Xylene and p-Xylene are unresolvable compounds
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent

***AFCEE Qualifiers***

These are KEMRON's AFCEE Report Qualifiers

J	The analyte was positively identified, the quantitation is an estimation
U	The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL
F	The analyte was positively identified but the associated numerical value is below the RL
R	The data is unusable due to deficiencies in the ability to analyze the sample and meet QC criteria
B	The analyte was found in an associated blank, as well as in the sample
M	The matrix effect was present
S	To be applied to all field screening data
T	Tentatively identified compound (using GC/MS)

## Kemron Environmental Services

Wednesday, July 31 2002

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AJF - AMANDA J. FICKIESEN	ECL - ERIC C. LAWSON	RPM - RYAN P. MCALLISTER
ALT - ANN L. THAYER	GSG - GALEN S. GEORGE	RWC - ROD W. CAMPBELL
ARS - ANGELINA R. SCOTT	HV - HEMA VILASAGAR	SJK - SINDY J. KINNEY
BRF - BRENT F. FOOS	JAL - JOHN A. LENT	SLP - SHERI L. PFALZGRAF
BRG - BRENDA R. GREGORY	JJG - JAKE J. GREUEY	SLT - STEPHANIE L. TEPE
CAF - CHERYL A. FLOWERS	JKW - JANE K. WARDEN	SMW - SHAUNA M. WELCH
CAK - CHERYL A. KOELSCH	JLS - JANICE L. SCHIMMEL	SMW - SHARON M. WASHBURN
CBN - CHARLES B. NOLL	JMM - JARROD M. MARTIN	SPL - STEVE P. LEARN
CEB - CHAD E. BARNES	JMT - JOY M. MULLINS	TJH - TIM J. HOEFLICH
CLC - CHRYS L. CRAWFORD	JWR - JOHN W. RICHARDS	TMM - TAMMY M. MORRIS
CLK - CARL L. KING	JWS - JACK W. SHEAVES	VC - VICKI COLLIER
CLW - CHARISSA L. WINTERS	JYH - JI Y. HU	VKL - VICKY K. LAUER
CMS - CRYSTAL M. STEVENS	KHR - KIM H. RHODES	
CRC - CARLA R. COCHRAN	KRA - KATHY R. ALBERTSON	
CSH - CHRIS S. HILL	LKN - LINDA K. NEDEFF	
DAD - DAVE A. DAULEY	LRR - LUCYND A. ROBERTS	
DAH - DON A. HUNTER	LSA - LUCINDA S. ARNOLD	
DAM - DAN A. MUSGRAVE	LSB - LESLIE S. BUCINA	
DAS - DALLAS A. SULLIVAN	MDA - MICHAEL D. ALBERTSON	
DAT - DEBBIE A. TORNES	MDC - MICHAEL D. COCHRAN	
DEL - DON E. LIGHTFRITZ	MEF - MIKE E. FLANAGAN	
DEV - DAVID E. VANDENBERG	MES - MARY E. SCHILLING	
DGB - DOUGLAS G. BUTCHER	MKZ - MARILYN K. ZUMBRO	
DIH - DEANNA I. HESSON	MLR - MARY L. ROCHOTTE	
DLA - DENISE L. ADAMS	MLS - MICHAEL L. SCHIMMEL	
DLB - DAVID L. BUMGARNER	MMB - MAREN M. BEERY	
DLN - DEANNA L. NORTON	MSW - MATT S. WILSON	
DLP - DOROTHY L. PAYNE	NJB - NATALIE J. BOOTH	
DLR - DIANNA L. RAUCH	OGT - OKEY G. TUCKER	
DOV - DENISE O. VANDENBERG	RDC - REBECCA D. CUTLIP	
DP - DEANNA L. PIERSON	REF - RON E. FERTILE	
DRB - DOUG R. BARNETT	REK - ROBERT E. KYER	
DSM - DAVID S. MOSSOR	RJW - RHONDA J. WITTEKIND	
DST - DENNIS S. TEPE	RLW - RON L. WATSON	

# Inorganic QC Summary

KEMRON ENVIRONMENTAL SERVICES  
OHIO VALLEY LABORATORY  
QUALITY CONTROL SUMMARY

WORKGROUP: WG122045A  
METHOD: 7470  
MATRIX: Water  
UNITS: mg/L  
INSTRUMENT: Leeman PS 202

RUN DATE: 07/26/2002  
PREP DATE: 07/25/2002  
ANALYST: MMB  
DUPLICATE L0207389-24  
MS/MSD L0207389-10

ANALYTE			CONCENTRATION PPB								PERCENT RECOVERY						PERCENT RPD			
	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Mercury	0.000200	ND	0.001000	0.000957	ND	ND	ND	0.001000	0.001010	0.000971	95.7	80.0	120.0	101.0	97.1	75.0	125.0	NA	3.9	20

NOTES & DEFINITIONS:

RDL = REPORTING DETECTION LIMIT  
DL = DILUTED OUT  
NA = NOT APPLICABLE

LCS = LABORATORY CONTROL SAMPLE  
T- LCS = TRUE VALUE OF LCS  
REP1 = UNSPIKED SAMPLE REPLICATE 1  
REP2 = UNSPIKED SAMPLE REPLICATE 2  
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX  
T-MS = TRUE VALUE OF MATRIX SPIKE  
MS = MATRIX SPIKE  
MSD = MATRIX SPIKE DUPLICATE  
LCL = LOWER CONTROL LIMIT  
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES  
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON ENVIRONMENTAL SERVICES  
OHIO VALLEY LABORATORY  
QUALITY CONTROL SUMMARY

WORKGROUP: WG122045B  
METHOD: 7470  
MATRIX: Water  
UNITS: mg/L  
INSTRUMENT: Leeman PS 202

RUN DATE: 07/26/2002  
PREP DATE: 07/25/2002  
ANALYST: MMB  
DUPLICATE L0207389-24  
MS/MSD L0207392-02

ANALYTE			CONCENTRATION PPB								PERCENT RECOVERY						PERCENT RPD			
	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Mercury	0.000200	ND	0.001000	0.000957	ND	ND	ND	0.001000	0.000948	0.000879	95.7	80.0	120.0	94.8	87.9	75.0	125.0	NA	7.6	20

NOTES & DEFINITIONS:

RDL = REPORTING DETECTION LIMIT  
DL = DILUTED OUT  
NA = NOT APPLICABLE

LCS = LABORATORY CONTROL SAMPLE  
T- LCS = TRUE VALUE OF LCS  
REP1 = UNSPIKED SAMPLE REPLICATE 1  
REP2 = UNSPIKED SAMPLE REPLICATE 2  
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX  
T-MS = TRUE VALUE OF MATRIX SPIKE  
MS = MATRIX SPIKE  
MSD = MATRIX SPIKE DUPLICATE  
LCL = LOWER CONTROL LIMIT  
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES  
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON ENVIRONMENTAL SERVICES  
OHIO VALLEY LABORATORY  
QUALITY CONTROL SUMMARY

WORKGROUP: WG122579A  
METHOD: 7470  
MATRIX: Water  
UNITS: mg/L  
INSTRUMENT: Leeman PS 202

RUN DATE: 8/4/02  
PREP DATE: 8/1/02  
ANALYST: KRA  
DUPLICATE: L0207407-08  
MS/MSD: L0207407-10

ANALYTE			CONCENTRATION PPB								PERCENT RECOVERY						PERCENT RPD			
	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Mercury	0.005000	ND	0.001000	0.001060	0.119000	0.187000	0.110000	0.020000	0.126000	0.135000	106.0	80.0	120.0	80.0	125.0	75.0	125.0	44.4	6.9	20

NOTES & DEFINITIONS:

RDL = REPORTING DETECTION LIMIT  
DL = DILUTED OUT  
NA = NOT APPLICABLE

LCS = LABORATORY CONTROL SAMPLE  
T-LCS = TRUE VALUE OF LCS  
REP1 = UNSPIKED SAMPLE REPLICATE 1  
REP2 = UNSPIKED SAMPLE REPLICATE 2  
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX  
T-MS = TRUE VALUE OF MATRIX SPIKE  
MS = MATRIX SPIKE  
MSD = MATRIX SPIKE DUPLICATE  
LCL = LOWER CONTROL LIMIT  
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES  
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON ENVIRONMENTAL SERVICES  
OHIO VALLEY LABORATORY  
QUALITY CONTROL SUMMARY

WORKGROUP: WG122579B  
METHOD: 7470  
MATRIX: Water  
UNITS: mg/L  
INSTRUMENT: Leeman PS 202

RUN DATE: 8/4/02  
PREP DATE: 8/1/02  
ANALYST: KRA  
DUPLICATE L0207407-15  
MS/MSD L0207407-10

ANALYTE			CONCENTRATION PPB								PERCENT RECOVERY						PERCENT RPD			
	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Mercury	0.005000	ND	0.001000	0.001060	0.164000	0.122000	0.110000	0.020000	0.126000	0.135000	106.0	80.0	120.0	80.0	125.0	75.0	125.0	29.4	6.9	20

NOTES & DEFINITIONS:

RDL = REPORTING DETECTION LIMIT  
DL = DILUTED OUT  
NA = NOT APPLICABLE

LCS = LABORATORY CONTROL SAMPLE  
T- LCS = TRUE VALUE OF LCS  
REP1 = UNSPIKED SAMPLE REPLICATE 1  
REP2 = UNSPIKED SAMPLE REPLICATE 2  
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX  
T-MS = TRUE VALUE OF MATRIX SPIKE  
MS = MATRIX SPIKE  
MSD = MATRIX SPIKE DUPLICATE  
LCL = LOWER CONTROL LIMIT  
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES  
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON ENVIRONMENTAL SERVICES  
OHIO VALLEY LABORATORY  
QUALITY CONTROL SUMMARY

WORKGROUP: WG123440C  
METHOD: 7470  
MATRIX: Water  
UNITS: mg/L  
INSTRUMENT: Leeman PS 202

RUN DATE: 8/14/2002  
PREP DATE: 8/13/2002  
ANALYST: MMB  
DUPLICATE L0207407-23  
MS/MSD - L0207407-26

ANALYTE			CONCENTRATION PPB								PERCENT RECOVERY						PERCENT RPD			
	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE			LCS	LCS		MS	MSD	MS		REP RPD	MS RPD	RPD UCL	
							RESULT	T-MS	MS		MSD	LCL			UCL	LCL				UCL
Mercury	0.000200	ND	0.001000	0.000930	0.165000	0.175000	0.188000	0.010000	0.161000	0.217000	93.0	80.0	120.0		290.0	75.0	125.0	5.9	29.6	20

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT  
DL = DILUTED OUT  
NA = NOT APPLICABLE

LCS = LABORATORY CONTROL SAMPLE  
T- LCS = TRUE VALUE OF LCS  
REP1 = UNSPIKED SAMPLE REPLICATE 1  
REP2 = UNSPIKED SAMPLE REPLICATE 2  
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX  
T-MS = TRUE VALUE OF MATRIX SPIKE  
MS = MATRIX SPIKE  
MSD = MATRIX SPIKE DUPLICATE  
LCL = LOWER CONTROL LIMIT  
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES  
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON ENVIRONMENTAL SERVICES  
OHIO VALLEY LABORATORY  
QUALITY CONTROL SUMMARY

WORKGROUP: WG123440B  
METHOD: 7470  
MATRIX: Water  
UNITS: mg/L  
INSTRUMENT: Leeman PS 202

RUN DATE: 8/14/2002  
PREP DATE: 8/13/2002  
ANALYST: MMB  
DUPLICATE L0207407-15  
MS/MSD L0207407-26

ANALYTE			CONCENTRATION PPB								PERCENT RECOVERY						PERCENT RPD			
	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE		MS	MSD	LCS	LCS	LCS	MS	MS	MS	REP	MS	RPD	
							RESULT	T-MS				LCL	UCL		LCL	UCL	RPD	RPD	UCL	
Mercury	0.000200	ND	0.001000	0.000930	0.121000	0.109000	0.188000	0.010000	0.161000	0.217000	93.0	80.0	120.0		290.0	75.0	125.0	10.4	29.6	20

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT  
DL = DILUTED OUT  
NA = NOT APPLICABLE

LCS = LABORATORY CONTROL SAMPLE  
T-LCS = TRUE VALUE OF LCS  
REP1 = UNSPIKED SAMPLE REPLICATE 1  
REP2 = UNSPIKED SAMPLE REPLICATE 2  
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX  
T-MS = TRUE VALUE OF MATRIX SPIKE  
MS = MATRIX SPIKE  
MSD = MATRIX SPIKE DUPLICATE  
LCL = LOWER CONTROL LIMIT  
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES  
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES

KEMRON ENVIRONMENTAL SERVICES  
OHIO VALLEY LABORATORY  
QUALITY CONTROL SUMMARY

WORKGROUP: WG123440A  
METHOD: 7470  
MATRIX: Water  
UNITS: mg/L  
INSTRUMENT: Leeman PS 202

RUN DATE: 8/14/2002  
PREP DATE: 8/13/2002  
ANALYST: MMB  
DUPLICATE L0207407-08  
MS/MSD L0207407-26

ANALYTE	CONCENTRATION PPB										PERCENT RECOVERY						PERCENT RPD			
	RDL	Blank	T-LCS	LCS	REP1	REP2	SAMPLE RESULT	T-MS	MS	MSD	LCS	LCS LCL	LCS UCL	MS	MSD	MS LCL	MS UCL	REP RPD	MS RPD	RPD UCL
Mercury	0.000200	ND	0.001000	0.000930	0.094600	0.133000	0.188000	0.010000	0.161000	0.217000	93.0	80.0	120.0		290.0	75.0	125.0	33.7	29.6	20

NOTES & DEFINITIONS :

RDL = REPORTING DETECTION LIMIT  
DL = DILUTED OUT  
NA = NOT APPLICABLE

LCS = LABORATORY CONTROL SAMPLE  
T- LCS = TRUE VALUE OF LCS  
REP1 = UNSPIKED SAMPLE REPLICATE 1  
REP2 = UNSPIKED SAMPLE REPLICATE 2  
SAMPLE RESULT = CONCENTRATION OF UNSPIKED MATRIX  
T-MS = TRUE VALUE OF MATRIX SPIKE  
MS = MATRIX SPIKE  
MSD = MATRIX SPIKE DUPLICATE  
LCL = LOWER CONTROL LIMIT  
UCL = UPPER CONTROL LIMIT

REP RPD = RELATIVE PERCENT DIFFERENCE OF SAMPLE REPLICATES  
MS RPD = % RELATIVE PERCENT DIFFERENCE OF MATRIX SPIKES



COC No. A 31864

109 Starlite Park  
Marietta, OH 45750

**KEMRON**  
ENVIRONMENTAL SERVICES  
CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4071

Fax: 740-373-4835

Company Name: <b>Ohio EPA - DHWM</b>		Project Contact: <b>Sherry Stone</b>		Contact Phone #: <b>(330) 425-9171</b>		NUMBER OF CONTAINERS	Hold	TCLP Mercury	Total Mercury	Program <input type="checkbox"/> NPDES <input type="checkbox"/> AFCEE <input checked="" type="checkbox"/> RCRA <input type="checkbox"/> USAGE <input type="checkbox"/> Other _____  ADDITIONAL REQUIREMENTS													
Turn Around Requirements: <b>30 Day</b>		Location: <b>Cleveland</b>		Project #: <b>KNE-071002-HW</b>																Project Name: <b>APC</b>			
Sampler (print): <b>R. Orlenmacher, G. SCHULTZ</b>		Signature: <i>R. Orlenmacher</i> <i>R. E. Sch</i>																					
Sample I.D. No.	Comp*	Grab	Date	Time	Protocol CWA SW846																		
<b>SF-17</b>		X	<b>7-10</b>	<b>11:48</b>		X																	
<b>18</b>		X		<b>11:54</b>		X																	
<b>RD</b>		X		<b>11:54</b>		X																	
<b>21</b>		X		<b>13:16</b>		X																	
<b>29</b>		X		<b>13:21</b>		X																	
<b>29 ms/msd</b>		X		<b>13:21</b>		X																	
<b>30</b>		X		<b>13:25</b>		X																	
<b>31</b>		X		<b>13:27</b>		X																	
<b>34</b>		X		<b>13:31</b>		X																	
<b>40</b>		X		<b>13:35</b>		X																	
<b>EB-1</b>		X		<b>13:48</b>					X														
Relinquished by: (Signature) <i>Randy Orlenmacher</i>		Date	Time	Received by: (Signature) <i>Jack Anew</i>		Relinquished by: (Signature)		Date	Time	Received by: (Signature)													
Relinquished by: (Signature) <i>Jack Anew</i>		Date	Time	Received for Laboratory by: (Signature) <i>Brenda Oregan</i>		Date	Time	Cooler Temp in °C	Remarks: <b>See Remarks on pg. 1 of 2, Sp contact by</b>														

\*Homogenize all composite samples prior to analysis



CLIENT: <b>DEPA</b>		DATE: <b>7/12/02</b>	SHIPPED BY: <input type="checkbox"/> FED-EX <input type="checkbox"/> AIRBORNE <input type="checkbox"/> UPS <input type="checkbox"/> EMERY <input type="checkbox"/> RPS <input type="checkbox"/> US MAIL <input checked="" type="checkbox"/> KEMRON <input type="checkbox"/> CLIENT	
BRG Other		COOLER ID: <b>KL957</b>	COOLER ID:	COOLER ID:
INDEX #:	INDEX #:	INDEX #:	INDEX #:	INDEX #:
SEALED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	SEALED <input type="checkbox"/> YES <input type="checkbox"/> NO	SEALED <input type="checkbox"/> YES <input type="checkbox"/> NO	SEALED <input type="checkbox"/> YES <input type="checkbox"/> NO	SEALED <input type="checkbox"/> YES <input type="checkbox"/> NO
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TEMP: (D) <input type="checkbox"/> (E) <input checked="" type="checkbox"/> 1 °C	TEMP: (D) <input type="checkbox"/> (E) <input type="checkbox"/> °C	TEMP: (D) <input type="checkbox"/> (E) <input type="checkbox"/> °C	TEMP: (D) <input type="checkbox"/> (E) <input type="checkbox"/> °C	TEMP: (D) <input type="checkbox"/> (E) <input type="checkbox"/> °C
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WET ICE <input checked="" type="checkbox"/> BLUE ICE <input type="checkbox"/>	WET ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/>	WET ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/>	WET ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/>	WET ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/>
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pH IN RANGE (2 - >9 - >12) <input type="checkbox"/> YES <input type="checkbox"/> NO AS APPROPRIATE	pH IN RANGE (2 - >9 - >12) <input type="checkbox"/> YES <input type="checkbox"/> NO AS APPROPRIATE	pH IN RANGE (2 - >9 - >12) <input type="checkbox"/> YES <input type="checkbox"/> NO AS APPROPRIATE	pH IN RANGE (2 - >9 - >12) <input type="checkbox"/> YES <input type="checkbox"/> NO AS APPROPRIATE	pH IN RANGE (2 - >9 - >12) <input type="checkbox"/> YES <input type="checkbox"/> NO AS APPROPRIATE
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LOG-IN COMMENTS	LOG-IN COMMENTS	LOG-IN COMMENTS	LOG-IN COMMENTS	LOG-IN COMMENTS

TSR COMMENTS

CONTACT:	DATE:	TIME:
COMMENTS: <input type="checkbox"/> VOICE <input type="checkbox"/> FAX <input type="checkbox"/> E-MAIL		

UNITED STATES POSTAL SERVICE



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box •

**Ohio EPA**

Northeast District Office  
2110 E. Aurora Rd.

Twinsburg, OH 44087-1969

RECEIVED  
AUG 07 2002  
OHIO EPANED

*S. Stone*

*7-31-02*

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MR. DREW KOLER  
 AMERICAN RECYCLING CO., LTD.  
 P.O. BOX 27486  
 CLEVELAND OH 44127-0486

2. Article Number 7001 1940 0007 5037 7135  
 (Transfer from service label)

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

AUG 6 2007

C. Date of Delivery

D. Is delivery address different from item 1?  YesIf YES, enter delivery address below  No

3. Service Type

- 
- Certified Mail
- 
- Express Mail
- 
- 
- Registered
- 
- Return Receipt for Merchandise
- 
- 
- Insured Mail
- 
- C.O.D.

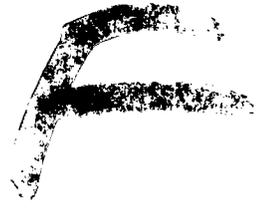
4. Restricted Delivery? (Extra Fee)

 Yes



State of Ohio Environmental Protection Agency

Northeast District Office



2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

July 31, 2002

RE: AMERICAN RECYCLING CO., LTD.  
OHD000720110  
CUYAHOGA COUNTY  
SAMPLING VISIT NOV

Mr. Drew Koler  
American Recycling Co., LTD.  
P.O. Box #27486  
Cleveland, OH 44127-0486

**CERTIFIED MAIL**

Dear Mr. Koler:

On July 10, 2002 representatives from Ohio EPA visited your facility to take samples from containers that are storing wastes from your lamp recycling process which are referred to as screener fines/sand. Randy Ohlemacher, Eric Schultz, Brad Murphy, Nyall McKenna and myself represented Ohio EPA and Dan Bickley represented American Recycling Company (ARC). The purpose of the sampling was to determine which of the screener fines currently on-site will need to be disposed of as hazardous waste.

At the time of our visit, we observed seven drums of phosphor powder that have been reprocessed, twelve drums of phosphor powder waiting to be reprocessed, and forty drums of screener fines. Of those forty drums of screener fines, fourteen were generated prior to August 2001. The remainder were generated after August 2001 when records of the process started to be kept. Dan indicated HID bulbs are fed into the processing equipment sporadically but are fed in between fluorescent lamps and not by any predetermined schedule. Therefore he felt the contents of the drums would be fairly similar.

We obtained a sample from each of the fourteen drums of screener fines that was generated prior to August 2001. We also obtained a sample from two drums of screener fines generated since August 2001 that ARC previously sampled. Of the remaining twenty-four drums of screener fines we randomly sampled nine. We will inform you of the results when we receive them.

Dan indicated that the one drum of screener fines that we sampled in June of 2001 and had found to be hazardous was sent off-site as non-hazardous mixed with larger pieces of glass to an unpermitted facility. He stated this was done prior to receiving notice from us that our representative sampling found it to be hazardous and based on their prior one sample of this type of waste that showed it was non-hazardous. Please be advised this would be considered illegal disposal of a hazardous waste in accordance with Ohio Revised Code 3734.02(F). You have labeled the remaining drums of screener fines as hazardous waste and will manage them as such until the results from our sampling come back.

Also during our visit, violations of the hazardous waste rules were noted related to the containers of reprocessed phosphor powder. These wastes are hazardous because of the mercury content and are being manifested off-site to a hazardous waste facility in lots of ten. While accumulating on-site, Ohio Administrative Code 3745-52-34(A)(2) &(3) requires that these containers be clearly marked with the words "hazardous waste" and the date upon which each period of accumulation begins is clearly marked and visible for inspection on each container. None of the containers had hazardous waste labels or were clearly marked with the words "hazardous waste" and none had the accumulation start dates clearly marked. At least five of the drums had one or more dates but it was

AMERICAN RECYCLING CO., LTD.  
JULY 31, 2002  
PAGE - 2 -

unclear what the accumulation start date was. One drum was dated 12/1/97. **Please confirm in writing that drums of reprocessed phosphor powder have been properly labeled and dated, and provide us with a list of the accumulation start dates for each of the seven drums.** The accumulation start date would be the date that wastes first begin accumulating in that drum.

We discussed ARC's rate of generation of hazardous waste. It appears that ARC fluctuates between a large and a small quantity generator category based on generation rate of hazardous waste. **Please clarify in writing what ARC's current generator category is and how you determined it.** If ARC is a large quantity generator and stores hazardous waste for longer than 90 days it is an operator of a storage facility [OAC 3745-52-34(B)]. If ARC is a small quantity generator and stores hazardous waste for greater than 180 days or 270 days if the wastes are transported 200 miles or more to a treatment facility, it is an operator of a storage facility [OAC 3745-52-34(F)]. It appears that at least one drum has been accumulating waste beyond 270 days and at least five drums have been accumulating waste beyond 90 days.

Be aware that additional requirements apply to each category of generator and a complete inspection for all requirements was not conducted. A handbook for generators that explains these requirements can be found on our web site @ [www.epa.state.oh.us/dhwm/listguide.htm](http://www.epa.state.oh.us/dhwm/listguide.htm). The hazardous waste rules for generators can be found in the Ohio Administrative Code at Chapter 3745-52. The hazardous waste rules can also be obtained on our web site.

Please provide the above requested information within 20 days of the date of this letter. Should you have any questions related to this letter, please feel free to contact me at (330) 963-1226.

Sincerely,



Sheryl K. Slone, P.E.  
Environmental Engineer  
Division of Hazardous Waste Management

SKS:ddw

cc: Tammy McConnell, DHWM, CO  
ec: Marcus Glasgow, AGO  
Greg Poulos, AGO  
Natalie Oryshkewych, DHWM, NEDO

**NOTICE:**

**Ohio EPA's failure to list specific deficiencies or violations in this letter does not relieve your company from having to comply with all applicable regulations.**

**Sampling Visit Notes - July 10, 2002**  
**American Recycling Company, Ltd.**  
**Compiled from handwritten notes of Sherry Slone and Nyall McKenna**

**Facility, Address, and Phone:** American Recycling Company, Ltd. (ARC)  
3203 West 71<sup>st</sup> St.  
P.O. Box 27486  
Cleveland, OH 44127-0486  
Phone: (216) 281-2828  
Voice Mail: (216) 281-9200  
Fax: (216) 281-5505

**Notification:** 5/3/99 as SQG  
**US EPA ID number:** OHD000720110  
**OEPA DHWM Inspectors:** Randy Ohlemacher (RO)  
Eric Schultz (ES)  
Brad Murphy (BM)  
Nyall McKenna (NM)  
Sherry Slone (SS)

**Date of Visit:** 7/10/02  
**Time In:** 8:00 AM  
**Time Out:** 2:45 PM  
**Facility Representatives:** Dan Bickley (DB)  
Dave LNU

**Purpose of Visit:** Sampling.  
**Sample(s) Taken:** Yes  
**Photograph(s) Taken:** Yes, digital photos.  
**Map(s):** No  
**Weather:** Low 80°F, sunny

**FINDINGS:**

**8:00 AM**

Arrived at site. Discussed sampling plans. Walked through the warehouse area. All of the drums of screener fines/sand were unstacked and lid rings were loosened. There were seven drums of reprocessed powder, twelve drums to be reprocessed, and forty drums of screener fines. Talked with Dan about contents of the drums. Fourteen of the forty drums of fines were generated prior to August 2001. The remainder of the forty drums were generated after August 2001, when records of the process started to be kept. Dan felt that the contents of the drums would all be the same. He said HID bulbs are fed into the processing equipment occasionally but they are fed in between fluorescent lamps and not by any predetermined schedule.

Dan said the one drum of fines that we sampled on June 28, 2001 and found to be

hazardous, had been sent off-site mixed with larger pieces of glass for recycling.

We decided we would sample each of the 14 drums of fines generated prior to August 2001 and we would sample the two drums that ARC sampled and randomly sample nine of the remaining 24 drums generated after August 2001,

The 40 drums of screener fines were numbered, an inventory of the drums in the warehouse was made, some pictures were taken, and the sample prep table and decon line were set up.

SS made the following observations of drums:

- 40 drums of screener fines
- 12 drums to be reprocessed
- 7 drums of reprocessed powder

All 40 drums of screener fines were steel, 55 gallons in size, and had loose open heads. Drums SF-02 through SF-15 all had hazardous waste labels with an accumulation start date of 8/17/01 and a waste code of D009.

<u>Drum #</u>	<u>Labeling</u>
SF-02	
SF-03	second label - "screening fines", dated 12/10/98
SF-04	
SF-05	second label - "2/19/98 start to 4/28/98 end"
SF-06	second label - "8/24/98 end"
SF-07	second label - "8/21/98 end"
SF-08	second label - "8/10/98 end"
SF-09	second label - "8/21/97 start to 8/27/97 end"
SF-10	second label - "12/3/97 start to 2/19/98 end"
SF-11	second label - "10/28/98 end"
SF-12	second label - "10/5/98 end"
SF-13	second label - "8/4/97 start to 8/12/97 end"
SF-14	
SF-15	second label - "8/?/97 start to 9/?/97 end", label was scratched through days
SF-16	"1/03/02-1/11/02"
SF-17	"12/12/01-1/03/02"
SF-18	"8/27/01"
SF-19	"9/5/01"
SF-20	"10/9/01"
SF-21	"9/13/01, sand"
SF-22	"12/03/01-12/12/01, screened sand"
SF-23	"11/16/01-12/03/01, sand"
SF-24	"2/11/02-2/19/02, sand"
SF-25	"2/28/02-3/8/02, screened sand"

SF-26 "??/01, sand", Couldn't read month and day on label, second label -  
 "ARC-001, 10/3/01 sample date"  
 SF-27 "10/17-11/3/01, sand"  
 SF-28 "9/24/01, sand", second label - "ARC-002, sample date 10/3/01"  
 SF-29 "11/2/01-11/16/01, sand"  
 SF-30 "2/19/02-2/28/02, sand"  
 SF-31 "3/8/02-3/19/02, sand"  
 SF-32 "3/27/02-4/17/02, sand", uncertain of begin date - on back side hard to  
 read  
 SF-33 "1/11/02-1/29/02, screened sand"  
 SF-34 "8/22/01, sand"  
 SF-35 "5/11/02-5/22/02, screened sand"  
 SF-36 "6/14/02-7/8/02, screened sand"  
 SF-37 "?-7/8/02, screened sand", begin date was on the back side of drum  
 SF-38 "5/22/02-6/14/02, screened sand"  
 SF-39 "1/29/02-2/11/02, sand"  
 SF-40 "4/17/02-5/1/02, sand"  
 SF-41 "8/17/01, sand"

None of the seven reprocessed powder drums had HW labels. They were labeled as follows:

4/5/02-5/21/02  
 11/28/01-1/14/02  
 12/1/97  
 2/5/02-2/15/02  
 1/14/02- ?, end date on back side  
 label was on back side

**9:45 AM**

RO and ES suited up in polycoated Tyvek, full face APR's, ice vests, booties, double gloves. RO had a two way radio to communicate with those assisting outside of the hot zone. SS and BM wore half face APR's and gloves. NM wore gloves. DB collected a split sample to retain of each sample we obtained. For each drum sampled, the trier was pushed into the full depth of the drum and then pulled out. The core of material was placed in an aluminum disposable pan, mixed with a plastic scoop, and then a sample of this material was placed into the sample jar. The samples would be analyzed for TCLP mercury.

09:53 SF-02  
 09:56 SF-03  
 10:02 SF-04 less glass, easier for the trier to go through the material  
 10:05 SF-05 slightly more glass, harder for the trier to go through  
 10:06 SF-06 couldn't get completely to the bottom with trier  
 10:12 SF-07 less glass, easier for the trier to go through the material, for split  
 sample DB took one scoop off the top

10:17 SF-08 burnt orange, reddish color, more dusting than others  
 10:25 SF-09  
       SF-09D duplicate  
 10:30 SF-10 material compacted at the bottom  
       SF-10MS/MSD  
       SF-10MS/MSD  
 10:38 SF-11

**10:50 AM**

Break. Selected nine random drums to sample by using a lottery ticket. The first nine numbers on the lottery ticket that were between 16 and 41, excluding 26 and 28, were selected.

**11:05 AM**

Donned personal protective equipment and continued sampling.

11:13 SF-12  
 11:20 SF-13  
       SF-13D duplicate  
 11:25 SF-14 easier for trier to go through  
 11:29 SF-15  
 11:35 SF-26 easier for trier to go through, finer material, less glass  
 11:38 SF-28 harder to push the trier through, very fine material, less glass  
 11:42 SF-16 easy to push trier through, finer material  
 11:48 SF-17 easy to push trier through  
 11:54 SF-18 very fine material, mostly powder, DB thinks it might be a drum  
       from reprocessing  
       SF-18D duplicate

**12:30 PM**

Lunch break.

**1:00 PM**

Donned personal protective equipment and continued sampling.

1:16 SF-21 large amount of glass, hard to push the trier through  
 1:21 SF-29 very easy to push trier through, for split sample DB took one scoop  
       off the top  
       SF-29MS/MSD  
       SF-29MS/MSD  
 1:25 SF-30  
 1:27 SF-31 very fine, hard to push the trier through  
 1:31 SF-34 very powdery, dusting to atmosphere  
 1:35 SF-40 gritty, large amounts of glass

1:48 EB-1 equipment blank

**1:50 PM**

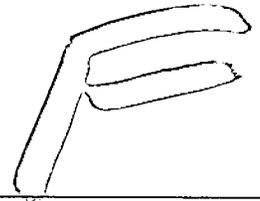
Packed up equipment. Took down decon station. RO and SS talked to DB about HW labeling and management of the reprocessed powder drums. Advised DB that those drums needed to have HW labels with the accumulation start dates noted and removed from the site within 90 days if ARC is an LQG. We discussed their generation rate which appears to fluctuate between LQG and SQG. Drums of powder are reprocessed at various times depending on their business. DB stated they were accumulating 10 drums of reprocessed powder at a time and then manifesting sending them off-site. He agreed to get them properly labeled and dated.

**2:45 PM**

Left site.



State of Ohio Environmental Protection Agency  
Northeast District Office



2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

May 9, 2002

RE: AMERICAN RECYCLING CO., LTD.  
OHD000720110  
CUYAHOGA COUNTY

Mr. Drew Koler  
American Recycling Co., LTD.  
P.O. Box #27486  
Cleveland, OH 44127-0486

Dear Mr. Koler:

This letter is written to follow up our February 12, 2002 visit to your facility to observe your processes and to respond to your letter dated March 19, 2002.

During a meeting with you at our office on October 25, 2001, we requested, and you agreed to allow us, to observe the reprocessing of mercury contaminated phosphor powder that is generated from your process of recycling fluorescent lamps. You indicated during that meeting that about a four to one reduction in the powder was achievable during reprocessing but could not show us or explain where the other three parts went. Our primary concern was that the mass of materials going into the system could be accounted for coming out of the system.

On February 12, 2002 Randy Ohlemacher and I observed the reprocessing of a drum of mercury contaminated phosphor powder through your processing equipment. The weight of the material going into the system was recorded and weights of the component outputs were recorded. Initially 70 pounds of material were unaccounted for after processing. Subsequently running the system for two periods of about 10 minutes each, and tapping the ducts during those periods yielded another 62 pounds of material output. The final output results for the one drum fed into the system were approximately 59% glass, 21% sand/screener fines, 17% powder, 1% end caps, and 1% lost. Based on these results, we do not object to you reprocessing the powder to obtain more recyclable glass provided these materials are not accumulated speculatively. As defined in OAC 3745-51-01(C)(8) and OAC 3745-51-02(C)(4), a material is not accumulated speculatively if the person accumulating the material before recycling, can show that during the calendar year, at least 75% by weight or volume of the material is recycled or transferred to a different site for recycling. You would need to keep written logs to show the dates, amounts, and where and how the materials are recycled. We understand that you will manage the reprocessed phosphor powder as a hazardous waste.

The sampling plan submitted for the containers of accumulated screener fines/sand has been reviewed. Attached is a summary of Ohio EPA's comments on the plan. Please revise the plan accordingly and resubmit it to me within 30 days of the date of this letter. We understand you will continue to manage the screener fines/sand as hazardous waste until we agree on a sampling plan for these materials.

Several concerns were expressed in your March 19, 2002 letter. One concern was related to Ohio EPA providing the Cleveland Clinic Foundation (Clinic) with a copy of a letter written to American Recycling Company (ARC). Frequently companies do contact Ohio EPA about the compliance status of recycling or hazardous waste facilities and routinely we provide them with requested parts of the public record. If the Clinic requested a copy of my April 19, 2001 letter to ARC, it would have been sent to them since it was part of the public record. If they requested your response to that letter and you had not requested confidentiality, it would have been sent to them as well.

AMERICAN RECYCLING CO., LTD.  
MAY 9, 2002  
PAGE - 2 -

Another concern you expressed related to Ohio EPA involvement with other fluorescent lamp recycling facilities. In 2001 our technical support personnel from our central office in Columbus, did contact all eleven fluorescent lamp and ballast recycling facilities listed on our web page. Seven of these facilities were visited along with district office representatives. Clean Harbors was not visited because it is routinely inspected by the district office personnel as a hazardous waste facility. I.G. Incorporated and Redemtech, Inc. were not visited because they indicated they do not handle fluorescent lamps. Special Waste Systems, Inc. indicated that they only broker lamps so they were not visited either. You were previously provided copies of letters for four of these facility visits. Enclosed are letters for the other three facility visits. If you would like to arrange to see the entire public file for any of these facilities you can contact Lonnie Terry at (614) 644-2942.

You had concerns about Superior Special Services "repackaging" fluorescent lamps. It is our understanding that Superior receives lamps which are new but the packaging has been damaged. They inspect each lamp within the damaged package and if it is working properly they "repackage" it to be sold by the original vendor. If it is not working properly, it is recycled through their process equipment.

Also you expressed concern about Ohio EPA involvement with used fluorescent lamp generators. Questions about the management of used fluorescent lamps are brought up at every hazardous waste inspection Ohio EPA conducts. Routinely we hand out our fact sheet concerning the management of used fluorescent lamps with a list of recyclers (including ARC) during hazardous waste inspections and during outreach seminars of all types.

Should you have any questions related to this letter, please feel free to contact me at (330) 963-1226.

Sincerely,



Sheryl K. Slone  
Environmental Engineer  
Division of Hazardous Waste Management

SKS:ddw

Enclosure

cc: Tammy McConnell, DHWM, CO  
ec: Marcus Glasgow, AGO  
Greg Poulos, AGO  
Natalie Oryshkewych, DHWM, NEDO

**NOTICE:**

**Ohio EPA's failure to list specific deficiencies or violations in this letter does not relieve your company from having to comply with all applicable regulations.**

**Ohio EPA Comments regarding  
American Recycling Company, Ltd. (ARC)  
Proposed Quality Assurance Project Plan (QAPP)  
for TCLP Characterization of Screener Sand for Mercury**

**Section 1**

- Comment: In paragraph one, screener fines should be listed as an additional output from the process.
- Comment: The phosphor powder has only recently (November 13, 2001) started to be sent off-site for the recovery of mercury. Previously, it had been stored on-site for up to six years.
- Comment: Paragraph two states the fine screen stream is primarily glass fines. It should also indicate that phosphorus powder is in this stream.
- Comment: Remove the phrase "beneficial reuse" since that has not been clearly demonstrated.
- Comment: Paragraph three states, "Per the request of Ohio EPA, ARC has segregated and maintained screener sand in drums on-site." This should make clear that this request was after the sampling of one drum by Ohio EPA on 6/28/01 indicated screener fines were characteristic hazardous waste for mercury.
- Comment: Paragraph five states, "The basic approach is to test a number of drums of screener sand generated recently at ARC under known typical conditions". Paragraph three indicates, information about process operations prior to August 17, 2001 is not available. Therefore, ARC shall sample each of the 15 drums of screener sand generated prior to August 17, 2001, to determine if each is hazardous waste.

**Section 2.2**

- Comment: The screener sand also contains phosphor powder. The assumption should not be made that the screener sand is homogeneous. Particular attention needs to be given to insure that a representative sample is collected from each drum.

**Section 2.4**

- Comment: The Ohio EPA sample was a core sample through the entire drum and was considered representative of the waste in the respective drum.
- Comment: Section 1 indicates a generation rate of one drum per week but Section 2.4 indicates a generation rate of one drum every 2 - 4 days. Please be accurate and consistent.

**Section 2.5.1**

- Comment: Ohio EPA requests a minimum of seven working days notice prior to the sampling event so that Ohio EPA can be present. Additionally, Ohio EPA might chose to collect a split sample during sample collection.

Comment: If disposable equipment is used, Ohio EPA would agree that equipment blanks are not necessary. If any non-disposable equipment is used, whether it is field or office decontaminated, then an equipment blank sample should be collected and analyzed.

Comment: We agree that a trip blank is not necessary since they are only required for volatile organic samples and we do not expect significant volatilization of elemental mercury. However, ARC should consider collecting and analyzing at least one matrix spike/matrix spike duplicate (MS/MSD).

Comment: The field duplicate may be best selected in the field. If multiple retrievals of the thief are required to obtain sufficient sample volume, then each retrieval shall be alternated between the sample and the duplicate sample.

### **Section 2.5.2**

Comment: Several places in the document the word "filed" is mistakenly inserted for "field".

### **Section 3.1**

Comment: Please specify the laboratory QA/QC (such as lab spikes, spike concentration, blanks, etc.). Also, provide Ohio EPA with all raw data including items such as TCLP bench sheets, preparation logs and calibration criteria for mercury and any post-digestion spike information. We would typically refer to this type of data package as a "Level III package" and would want all typical QA/QC.

### **Section 3.2**

Comment: ARC shall request and verify that the laboratory homogenizes the sample before extracting the aliquot for analysis.

### **Section 4.0**

Comment: While Ohio EPA likes the concept of a statistical approach to evaluating the data, SW-846, Chapter 9 may not be the best procedure when evaluating process waste. Chapter 9 is more relevant to a single waste deposited on the land surface. Your waste stream is not a homogeneous waste for mercury content. A time consideration must be taken into account since the operating parameters (mainly, feedstock) vary and therefore affect the waste stream generation. The heterogeneity of your waste within drums and between drums needs to be evaluated. Ohio EPA would recommend collecting three discrete grab samples from each drum in the top, middle and bottom. A minimum of three to four drums should be sampled using the above method. Additionally, statistical analysis of the data points would first need to include a determination that you have a normal population distribution before additional statistics could be performed on the data. If the sample population is not normally distributed, then additional samples would need to be taken. Once a normal population is achieved, then you could perform statistical analyses such as Student's T-test and determine the confidence interval to evaluate if sufficient samples were collected. After these evaluations, then you could perform the statistics you mentioned and determine if the waste is a characteristic hazardous waste.

**End of Comments**



**Attorney General  
Betty D. Montgomery**

April 25, 2002

Geoffrey K. Barnes, Esq.  
Squire Sanders & Dempsey. L.L.P.  
4900 Key Tower  
127 Public Square  
Cleveland, Ohio 44114-1304

**Re: American Recycling Company. Ltd.**

Dear Mr. Barnes,

The Director of Ohio EPA has asked the Attorney General to file suit against American Recycling Company, Ltd. and its owner Drew R. Kohler for violations of Ohio's hazardous waste laws. Generally, this office provides businesses with the opportunity to amicably resolve their problems with the State prior to our filing of a lawsuit. In accordance with this policy, I am offering you the opportunity to negotiate an agreement with your client to be written in a consent order filed in Common Pleas Court along with a complaint.

Settlement prior to, rather than after, filing a lawsuit can provide your client with a number of advantages. These advantages may include the following:

1. a lower civil penalty;
2. mutually agreeable compliance schedules that your client is able to meet;
3. avoidance of impaired bond ratings and difficulty in obtaining loans due to potentially heavy losses resulting from the litigation;
4. shareholder discontent; and
5. avoidance of the adverse publicity inherent in contested litigation.

If you wish to take advantage of my offer to negotiate, I ask that you call or write by May 31, 2002. My phone number is (614) 466-2766. If I do not hear from you by that date, I will assume you do not wish to negotiate. If you indicate your desire to negotiate, I will proceed to schedule a meeting in order to initiate discussions of the issues.

Please understand that I cannot continue negotiations indefinitely before filing. Because your client is currently violating the hazardous waste laws, I must move quickly to prevent threats to the environment. Furthermore, the United States Environmental Protection Agency requires the State to take timely enforcement action under its delegated hazardous waste program. Finally, prolonging negotiations also unfairly leaves your client with the large unresolved liability of threatened litigation in the meantime.

Therefore, once the issues for negotiations have been clearly defined, I will notify you of the date by which I expect to conclude settlement discussions. If we have not finalized a consent order by that time, I will have to file a lawsuit for civil penalties and injunctive relief. I have included a draft copy of the complaint and consent order for your review.

State Office Tower / 30 East Broad Street / Columbus, Ohio 43215-3428

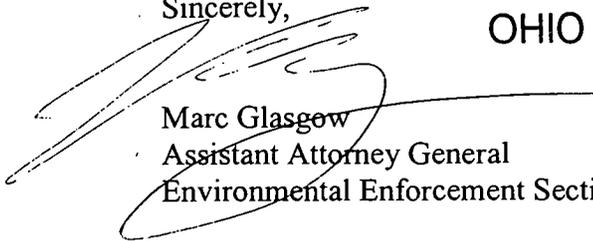
[www.ag.state.oh.us](http://www.ag.state.oh.us)

*An Equal Opportunity Employer*

I look forward to hearing from you.

RECEIVED  
APR 29 2002  
OHIO EPA NEDO

Sincerely,



Marc Glasgow  
Assistant Attorney General  
Environmental Enforcement Section

Cc. John K. McManus-AAG/EES  
Greg Poulos-AAG/EES  
Jeanette Smith-OEPA/DHWM  
Sherry Slone-OEPA/DHWM/NEDO  
Harry Sarvis-OEPA/DHWM



# AMERICAN RECYCLING COMPANY, LTD.

P.O. Box #27486 • Cleveland, OH 44127-0486  
Phone: (216) 281-9200 • FAX (216) 281-5505

March 19, 2002

Certified Mail

Ms. Sheryl K. Slone  
Ohio EPA – Northeast District Office  
Division of Hazardous Waste Management  
2110 E. Aurora Road  
Twinsburg, OH 44087-1969

Dear Ms. Slone:

This letter is a follow up to your visit at American Recycling Company, Ltd. (ARC) on February 12, 2002 and my letter to you dated December 18, 2001. The purpose of the Ohio EPA (OEPA) February 12<sup>th</sup> visit at ARC that you indicated in your letter February 4, 2002 (copy attached) was to observe the reprocessing of some intermediate lamp glass/phosphor powder product mixture (product mixture) through the ARC lamp recycling system. The observation/visit was initiated at Randy Ohlemacher's request during our visit to the OEPA NE District Office on October 25, 2001. At our meeting on October 25<sup>th</sup> Mr. Ohlemacher stated his opinion that the ARC product mixture was mostly phosphor powder with a small amount of lamp glass and alleged that ARC was not legitimately recycling or reclaiming this product mixture. I informed Randy and you at the October 25<sup>th</sup> meeting that ARC had randomly selected and reprocessed two product mixture drums in July 2001 and found that a large percentage of those two product mixture drums contained lamp glass with a much smaller percentage of phosphor powder. The July 2001 results of our weight percent analysis for these two product mixture drums confirming the large percentage of lamp glass were included in my letter to you dated December 18, 2001. In spite of these test results, Randy and you insisted on observing the reprocessing of more product mixture at ARC on February 12<sup>th</sup>. As you know, the product mixture mass balance reprocessing results that Randy and you observed showed again that a large percentage our product mixture is lamp glass (59%) and glass fines/sand (22%) confirming the very similar reprocessing results we had in July 2001. The complete February 12<sup>th</sup> mass balance results for product mixture drum number 36 were as follows: Lamp glass-340 lb (59%); Glass fines/sand-127 lb (22%); Phosphor powder-102 lb (18%); End caps-7 lb (1%) and Product left in recycling system ductwork-8 lb (1%) – Total 584 lb (100%). These results clearly demonstrate again that ARC is legitimately recycling and reclaiming our product mixture.

Your letter dated February 4, 2002 also mentions the CLAA "letter of warning" dated December 7, 2001. As you know, the letter from the CLAA dated February 22, 2002 to ARC (copy attached) has resolved the alleged record keeping violations and confirmed the de minimis status classification of the ARC lamp recycling system.

I received some very disturbing news from a major ARC customer recently. The Cleveland Clinic Foundation (Clinic) was a very good ARC customer for the past three years. We received a letter from the Clinic dated February 25, 2002 (copy attached) stating that they have switched to another lamp recycling company. After discussing the Clinic letter in more detail with Ken Doyle of the Clinic, he indicated their main reason for switching was an inspection letter they received from the Ohio EPA on ARC, not the battery, computer and lamp recycling service pricing we offered. The Clinic letter states in part, "There was also a regulatory concern following a visit by the Ohio EPA at the American Recycling Company facility where several significant violations were noted. There was also a question as to whether the use of phosphor powder constituted recycling".

This section of the Clinic letter is apparently in reference to your letter to ARC dated April 19, 2001.

We want to know if you also informed or sent the Clinic a copy of the ARC letter to OEPA dated May 15, 2001 in which ARC disputed and explained our position on the alleged significant violations referenced in your letter dated April 19<sup>th</sup>. As you know, page 4 of our May 15<sup>th</sup> response letter specifically addressed and disputed the OEPA "concerns" about some potential commercial products we were evaluating for our recycled lamp glass, glass fines and phosphor powder. The OEPA should have sent a copy or notified the Clinic of our May 15<sup>th</sup> responses along with the OEPA April 19<sup>th</sup> letter so the Clinic could make a more balanced and informed evaluation of the ARC compliance status. It will be extremely difficult for ARC to make up the Clinic lamp recycling sales of over \$9,000 per year which represents 5% of our sales that we have now lost to another Ohio competitor.

We also note with alarm that the Ohio competitor who was selected by the Clinic for lamp recycling - USA Lamp & Ballast Recycling in Cincinnati, OH apparently was not inspected and subjected to the same high level of regulatory scrutiny that ARC continues to be subjected to. In our letter to you dated December 18, 2001 we specifically requested all information the OEPA had pertaining to lamp recycling broker and processing facility inspections conducted by the OEPA in 2001. In your letter to ARC dated February 4, 2002 you state, "You requested information on other fluorescent lamp handlers that Ohio EPA visited in 2001. Enclosed are copies of letters sent to other facilities from Ohio EPA in 2001 that manage fluorescent lamps." There was no letter or inspection report for USA Lamp & Ballast Recycling included with your February 4<sup>th</sup> letter to ARC. During your initial visits to ARC on March 8 and 12, 2001, Randy Ohlemacher, Rose Connelly and you indicated that the OEPA was conducting routine visits and inspections of all lamp brokers, handlers, disposal and recycling facilities in Ohio. Your February 4<sup>th</sup> letter included a total of four (4) inspection letters for Lightsout, Inc., Sunpro, Superior Special Services and American Recycling Co., Ltd. As we discussed and reviewed during the exit meeting for your visit to ARC on February 12<sup>th</sup> there are eleven (11), including USA Lamp & Ballast Recycling, on the Ohio EPA Fluorescent Lamp & Ballast Recyclers Website list (See enclosed OEPA Fluorescent Lamp & Ballast Recyclers Website list). Randy and you indicated at the February 12<sup>th</sup> meeting that you were not aware of some of these companies even though this is the OEPA list. Apparently the OEPA was not aware of and did not inspect a majority (i.e., more than 50%) of the other lamp handling facilities in Ohio that are on their own list.

We also have some concerns and questions about some information that is in the OEPA report you sent us on Superior Special Services (Superior). On Pages 4 and 5 of the Superior report the OEPA states that 70% of the used lamps accepted from Superior customers are "repackaged" for resale and not reclaimed by Superior. Do the Superior customers know that Superior is not legitimately reclaiming a large percentage of their used lamps and is only reselling them; Who, where and when are the used Superior customer lamps legitimately reclaimed; Does Superior pay their customers for their used lamps if they claim they are legitimate commercial products; Does the sales price for the Superior customer "repackaged" used lamps reflect their reasonable fair market value or is the price low just to circumvent legitimate used lamp reclamation costs.

We also noted that all of the lamp glass from the 30% of the Superior customer used lamps that are legitimately reclaimed is sent to a regular waste landfill.

As you know, ARC recycles 100% of our customer used lamps and we send the recycled lamp glass, which is 95% of a lamp, to a company that makes fiberglass building insulation from our lamp glass.

During our exit meeting on February 12<sup>th</sup> I expressed the ARC on-going serious concern with the low lamp recycling sales volume and resulting negative cash flow at ARC. You know from the ARC tax returns you requested and we submitted at our October 25, 2001 meeting that ARC has not been profitable for many years now. We know based on our experience that lamp recycling demand in Ohio is very low (We have documented for the OEPA that ARC recycles approximately 300,000 lamps per year, which is less than 10% of our recycling system capacity of five million lamps per year). We have requested on several occasions, but have not received, all OEPA information on the quantity of used lamps disposed or recycled in Ohio. Randy and you stated at the February 12<sup>th</sup> meeting that the inspection and enforcement of the existing OEPA used lamp disposal/recycling rules for the large number of used lamp generators in Ohio is not a priority because of limited resources. You brought this point home by further stating that neither of you could remember a single company that has received a fine or enforcement action in the 6-7 years the OEPA has conducted used lamp generator inspections.

To make matters worse it is now apparent that ARC was misled and other competitors were not inspected and subject to the same level of environmental scrutiny by the OEPA. What little lamp recycling market share ARC has is eroding as our competitors take advantage of OEPA inadequate and inconsistent inspection of our competitors and lamp generators. Randy you mentioned at our February 12<sup>th</sup> meeting that OEPA is closing down a sham lamp recycling operation in Northwest Ohio that was crushing lamps by running over them with a forklift truck. You know that ARC has spent tens of thousands of dollars on labor and our proprietary lamp recycling system via the OEPA pollution prevention loan approval. We wonder how long OEPA allowed this sham lamp recycling operation in NW Ohio to operate and siphon off critical lamp recycling sales opportunities for ARC and other legitimate lamp recyclers.

I met with some key OEPA officials in Columbus over seven years ago before establishing ARC and was assured that the OEPA would adequately support lamp recycling companies and create demand by enforcing the existing OEPA lamp regulations. We also applied for and received a low interest rate OEPA pollution prevention loan to build our lamp recycling system over 5 years ago.

Ohio EPA – NE District Office  
March 19, 2002  
Page – 4

I have invested most of my money and time for more than seven years now to make ARC work based on my strong belief in pollution prevention and recycling versus landfill disposal of hazardous mercury-containing lamps.

Unfortunately, due to the circumstances I have touched on above and in spite of our best efforts it may be necessary to properly close ARC.  
ARC does not have the money to fund the closure so we will have to work with the appropriate Ohio and Federal officials to complete the closure.

Please call me at 216-281-2828 with any questions you have.

Sincerely,

A handwritten signature in black ink, appearing to read "Drew Koler". The signature is fluid and cursive, with the first name "Drew" being larger and more prominent than the last name "Koler".

Drew Koler  
Member – American Recycling Co., Ltd.

Enclosures

Cc: C. Jones, Director, Ohio EPA  
The Honorable Bob Taft, Governor, State of Ohio  
The Honorable Mike DeWine, U.S. Senator  
The Honorable Dennis Kucinich, U.S. Congressman  
The Honorable Steven LaTourette, U.S. Congressman  
The Honorable George Voinovich, U.S. Senator  
P. Schillawski-SSD



State of Ohio Environmental Protection Agency

Northeast District Office

2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

February 4, 2002

RE: AMERICAN RECYCLING CO., LTD.  
OHD000720110  
CUYAHOGA COUNTY

Mr. Drew Koler  
American Recycling Co., LTD.  
P.O. Box #27486  
Cleveland, OH 44127-0486

Dear Mr. Koler:

This letter is written to respond to your letter dated December 18, 2001 and to follow up our recent visit to your facility with Karen Kassouf of the Cleveland Local Air Agency (CLAA). On November 29, 2001, Tim Fischer of Ohio EPA - Division of Air Pollution Control, Randy Ohlemacher of Ohio EPA - Division of Hazardous Waste Management, and I accompanied Ms. Kassouf on her inspection of your facility. She was inspecting for compliance with air pollution control laws. The CLAA sent you a letter of warning dated December 7, 2001 concerning that inspection.

You submitted manifests documenting that all eight drums of solvent/PCB wastes have been properly removed from the site. We understand ARC has been gradually reprocessing drums of mixed phosphor powder and glass through the recycling system. Manifests were submitted demonstrating that sixteen drums of the reprocessed mercury contaminated phosphor powder were properly removed from the site as a D009 hazardous waste. You indicated that as of December 17, 2001 there were 25 drums of the glass/powder mixture to be reprocessed.

Fourteen drums of screener fines/sand are being stored near the recycling equipment. In the past, you mixed the screener fines with the larger pieces of glass going to Strategic Materials for recycling. About one drum of screener fines was mixed into the middle of each gaylord of larger glass. Since our June 28, 2001 sampling results showed this waste stream as hazardous for mercury, we asked that you suspend this practice until you could demonstrate its legitimacy. With your December 18, 2001 letter, you submitted a proposed sampling plan describing how a representative sample of this waste stream will be collected and analyzed. That plan continues to be reviewed.

You requested that specifics of your recycling equipment be treated confidentially as trade secrets. Randy Ohlemacher faxed to you a copy of the rule that addresses confidentiality requests and gave you related instructions. You requested information on other fluorescent lamp handlers that Ohio EPA visited in 2001. Enclosed are copies of letters sent to other facilities from Ohio EPA in 2001 that manage fluorescent lamps. I was unable to obtain comparative mercury lamp generator inspection activity in other Region 5 states that you requested.

AMERICAN RECYCLING CO., LTD.  
FEBRUARY 4, 2002  
PAGE - 2 -

You stated that all drums of PCB and non-PCB recycled ballast parts have been removed from the former facility site at 6701 Hubbard Avenue.

We have mutually set February 12, 2002 as the date we plan to visit ARC for the purpose of observing the mercury contaminated powder be reprocessed through your equipment. We understand all of the receptacles for the various production streams will be empty and weighed. We will be able to pick a drum to run through the system. You will run the drum through and weigh each receptacle with its contents. This procedure may be repeated for comparison purposes.

If you have any questions related to this letter, please feel free to contact me at (330) 963-1226.

Sincerely,



Sheryl K. Slone, P.E.  
Environmental Engineer  
Division of Hazardous Waste Management

SKS:ddw

Enclosure

cc: Natalie Oryshkewych, DHWM, NEDO  
Tammy McConnell, DHWM, CO  
Randy Ohlemacher, CAS, DHWM, CO  
Kenneth Zolnierczyk, USEPA, Region V  
Jeanette Smith, CAS, DHWM, CO  
Marcus Glasgow, AGO  
Greg Poulos, AGO

**NOTICE:**

**Ohio EPA's failure to list specific deficiencies or violations in this letter does not relieve your company from having to comply with all applicable regulations.**



**City of Cleveland**

Jane L. Campbell, Mayor

Department of Public Health  
1925 St. Clair Avenue  
Cleveland, Ohio 44114-2080  
216/664-2324 • Fax: 216/664-2197  
www.city.cleveland.oh.us

**SERVING OHIO EPA  
AS AGENCY 13 FOR  
CUYAHOGA COUNTY**

**CERTIFIED MAIL 7001 2510 0005 0683 0754  
RETURN RECEIPT REQUESTED**

February 22, 2002

DREW KOLER  
AMERICAN RECYCLING COMPANY  
P.O. BOX #27486  
CLEVELAND, OH 44127-0486

**NOTICE OF VIOLATION – FOLLOW-UP LETTER**

Dear Mr. Koler:

On December 7, 2001, the Cleveland Local Air Agency (CLAA) issued a Letter of Warning requiring American Recycling Company to record actual operations and to demonstrate that daily particulate emissions do not exceed the de minimis exemption level of 10 lbs/day. The CLAA is in receipt of a submittal that demonstrates de minimis status, recorded from January 2, 2002 through February 13, 2002.

CLAA has determined that no further enforcement action is warranted at this time, but reserves its right to take such action in the future if necessary.

This letter is being issued in concurrence with Ohio EPA and does not excuse any violations of local, state and federal laws or regulations regarding air pollution control. Violations of air pollution control laws may be pursued in local court or referred to Ohio EPA for an enforcement action. Should you have any questions, please call Karen Kassouf at (216) 420-8050.

Sincerely,

Raymond D. Broussard  
Chief of Field Enforcement, CLAA

RDB/kek

cc: Northeast District Office, Ohio EPA  
Michael J. Krzywicki, Program Coordinator, CLAA  
Tom Rigo, Manager, Ohio EPA FOPS (Certified Mail # 70012510000506830761)  
Facility File and I:\envr\apc\inspections\American Recycling\Non-EAR.doc

February 25, 2002

**CONFIDENTIAL**

Mr. Drew Koler  
American Recycling Company, LTD.  
P.O. Box 27486  
Cleveland, Ohio 44127

Dear Mr. Koler:

I regret to inform you that after receiving and reviewing bids from several companies, the Cleveland Clinic Foundation has elected to switch to another company for the recycling of fluorescent lamps. The reasons for the switch are that the company that was selected offered recycling for not only fluorescent bulbs but also lamp ballasts, nickel/cadmium and lead acid batteries, and computer monitors and components, which will fit in better with our expanding recycling programs. Their price list for the various recycling streams and shipping were more cost effective than the others that were received.

There was also a regulatory concern following a visit by the Ohio EPA at the American Recycling Company facility where several significant violations were noted. There was also a question as to whether the use of phosphor powder constituted recycling.

Since 1999 I felt that American Recycling Company provided good recycling service for the Cleveland Clinic. However, with the current economic climate being what it is, the Purchasing Department Bid Committee decided to make the switch of vendors. American Recycling Company will be kept on the list for when future bids for this service go out.

Thank you for your service the past three years.

Sincerely,



Kenneth W. Doyle, HEM  
HazMat Coordinator

Mercury Refining Company	1218 Central Avenue Albany, NY 12205	(518)459-3505 (800)833-3505	N/A	mercury compo mercury contam debris
--------------------------	---	--------------------------------	-----	---

**OHIO**

American Recycling Co., LTD.	3203 W. 71st Street Cleveland, OH 44102	(216)281-9200 (210)281-5505 Fax	N/A	ML, C, MCD, D
Clean Harbors (customer service)	4879 Spring Grove Avenue Cincinnati, OH 45232	(513)681-5738 (800)444-4244	(513)681-6246	ML, C, Ni-Cd b:
Dlubaks Glass Company	11567 County Highway 110 Upper Sandusky, OH 43351	(419)294-4466	N/A	ML, C, halogen windshield glass
Environmental Recycling	527 E Woodland Cir. Bowling Green, Oh 43402	(419)354-6110 (800)284-9107	(419)269-5110	ML, B, C, BA, M Electronic Equip
I.G., Incorporated	4560 State Rd Cleveland, OH 44109	(216)661-7710	(216)631-7711	ML, C, B, glass
Lightsout, Inc.	2301 Hamilton Avenue Cleveland, OH 44114	(216)621-6367	(216)621-7908	ML, B, BA, Transformers
Redemtech, Inc.	4089 Leap Road Hilliard, Oh 43026	(614)850-3366		Computers and I Equipment
ONYX Superior Special Services	4220 Perimeter Drive Columbus, OH 43228	(614)276-3000 (800)831-2852	N/A	ML, MCD, Hg Hg powder, MC Fac has Hg retor Electronic Equip
Special Waste Systems, Inc.	400 South Tecumseh Road Springfield, OH 45506	937-882-9231 fax: 937-882-6816	N/A	
Sunpro	7392 Whipple Avenue, NW North Canton, OH 44720	(330)966-0910	(330)966-1954	ML, elemental n MCD, T, P
USA Lamp & Ballast Recycling	5366 Este Avenue Cincinnati, OH 45232	(800)778-6645	(513)641-4156	ML, B, C, Batte: Elemental Hg, E scrap <a href="http://www.usalr.com">www.usalr.com</a>

**PENNSYLVANIA**

American Waste Management, Inc	948 5th Avenue Coraopolis, PA 15108	(412)262-0702	(412)262-0701	ML
Bethlehem Apparatus Co., Inc.	890 Front Street Hellertown, PA 18055	(610)838-7034	N/A	ML, MCD, dent

FILE MODE	OPTION	ADDRESS (GROUP)	RESULT	PAGE
586	MEMORY TX	DHWM CO	OK	P. 9/9

REASON FOR ERROR

E-1) HANG UP OR LINE FAIL  
E-3) NO ANSWER

E-2) BUSY  
E-4) NO FACSIMILE CONNECTION



P.O. Box #27486 • Cleveland, OH 44127-0486  
Phone: (216) 281-9200 • FAX (216) 281-5505

March 19, 2002

Certified Mail

Ms. Sheryl K. Slone  
Ohio EPA – Northeast District Office  
Division of Hazardous Waste Management  
2110 E. Aurora Road  
Twinsburg, OH 44087-1969

Post-It® Fax Note	7671	Date	3/22/02	# of PAGES	9
To	JEANETTE SMITH	From	SHERYL SLONE		
Co./Dept	CO-DHWM	Co.	NEDD		
Phone #		Phone #			
Fax #		Fax #			

Dear Ms. Slone:

This letter is a follow up to your visit at American Recycling Company, Ltd. (ARC) on February 12, 2002 and my letter to you dated December 18, 2001. The purpose of the Ohio EPA (OEPA) February 12<sup>th</sup> visit at ARC that you indicated in your letter February 4, 2002 (copy attached) was to observe the reprocessing of some intermediate lamp glass/phosphor powder product mixture (product mixture) through the ARC lamp recycling system. The observation/visit was initiated at Randy Ohlemacher's request during our visit to the OEPA NE District Office on October 25, 2001. At our meeting on October 25<sup>th</sup> Mr. Ohlemacher stated his opinion that the ARC product mixture was mostly phosphor powder with a small amount of lamp glass and alleged that ARC was not legitimately recycling or reclaiming this product mixture. I informed Randy and you at the October 25<sup>th</sup> meeting that ARC had randomly selected and reprocessed two product mixture drums in July 2001 and found that a large percentage of those two product

# Memo

**To:** File  
**From:** Sherry Slone  
**Date:** February 13, 2002  
**Subject:** ARC - Observation of reprocessing of a drum of powder

***Present were Drew Kollar, Dan Bickley and Dave of ARC, and Randy Ohlemacher and Sherry Slone of Ohio EPA***

On February 12, 2002, Randy Ohlemacher and I visited ARC for the purpose of observing ARC reprocess a drum of powder, doing a weight comparison between the input materials and the output materials, and determining the percentages of each of the output materials. There were 18 drums of powder being stored. We lifted the lids on a majority of these drums and selected drum #P-36 to run through the treatment system. The container with its ring but without its lid was weighed. We agreed some unprocessed lamps could be fed through as needed to keep the equipment from clogging up. 47 pounds of unprocessed lamps were available to feed through if needed. About 10:00 AM Dave began to feed the contents of P-36 through their system one scoop at a time. By 2:30 PM he had finished processing the contents of drum P-36. Weights of each output were taken. 70 pounds were unaccounted for in the output materials. The system was run an additional 10-15 minutes while the ducts and joints of the system were tapped and about 42 more pounds of output material was collected. The system was run another 10 minutes while again the ducts were tapped and another 20 pounds of output material was collected. These additional run times reduced the unaccounted for output material from 70 pounds to 8 pounds. Drew believes that these last 8 pounds are probably also still stuck to the inside of the equipment.

Drew indicated there are 18 drums of powder left to be reprocessed and 17 drums of sand/screener fines are being accumulated and all of these have been dated and labeled. Twelve cardboard boxes of crushed glass were noted in the warehouse.

During our wrap-up discussion, Drew indicated that my February 4, 2002 letter stated there were 14 drums of sand left but he said there were only 11. I agreed to look into this matter. He also requested copies of the checklists for the visits done at Environmental Recycling and USA Lamp and Ballast by Ohio EPA. Randy agreed to send him a copy of these.

### Weights

586# drum P-36 full of powder, with ring, without lid  
47# unprocessed lamps if needed to feed into system  
12# plastic drum collecting glass fines, no lid  
~0# plastic pail collecting end caps, no lid  
47# empty steel drum with lid and ring  
~7# steel lid  
9# leftover box of unprocessed lamps not needed to be fed into system

---

### Weight of materials fed into system

586 Drum P-36 full of powder with ring  
-40 Drum and ring  
546# Powder going in  
  
47 Unprocessed lamps available  
-9 Unprocessed lamps leftover  
38# Unprocessed lamps fed into the system

Therefore...

546 Powder  
+38 Unprocessed lamps  
**584# Total material fed into system**

### Weights of materials coming out of system

349 Crushed glass in plastic drum  
-12 Plastic drum  
337# Glass  
  
7 Pail with end caps  
-0 Pail  
7# End caps  
  
160 Screener fines with steel drum  
-40 Steel drum  
120# Screener fines  
  
97 Drum of reprocessed powder with ring and lid  
-47 Steel drum, ring and lid  
50# Powder

Therefore...

337 Glass  
7 End caps  
120 Sand  
+50 Powder  
**514# Total material exiting the system**

---

584 Incoming materials  
-514 Exiting materials  
70 # Unaccounted for

*After running the system 10 -15 minutes more:*

1 Sand/screener fines  
+41 Powder  
42# More material exiting

*After running the system ~10 minutes more:*

3 Sand /screener fines  
6 Glass  
+11 Powder  
20# More material exiting

Therefore....

---

343#	59%	Glass exiting system
7#	1%	End caps exiting system
124#	21%	Sand/screener fines exiting system
102#	17%	Powder exiting system
<u>8#</u>	<u>1%</u>	<u>Lost</u>
584#	100%	Incoming materials

**American Recycling Company  
February 12, 2002  
Photos**

*\* photos taken by Sherry Slone with a Sony Mavica digital camera*

- #1 view of drum contents of P-36, labelled "phosphor powder, 12/99"
- #2 drum P-36, this drum was fed back through the process equipment on 2/12/02
- #3 drum P-11, another drum of powder that would like to feed through if time allows
- #4 view of contents of drum P-11

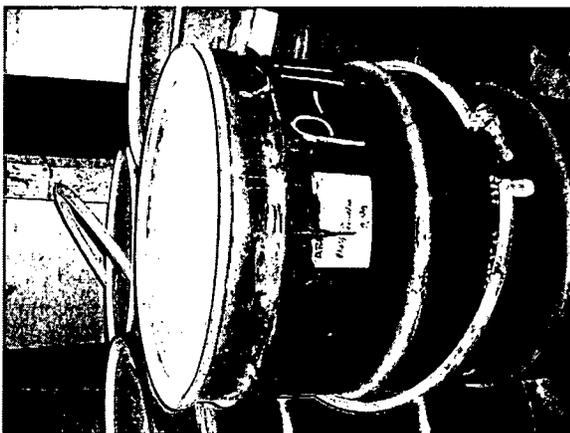
#1



#2

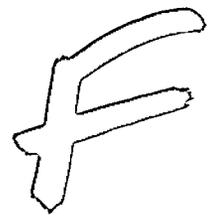


#3  
#4





State of Ohio Environmental Protection Agency  
Northeast District Office



2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

February 4, 2002

RE: AMERICAN RECYCLING CO., LTD.  
OHD000720110  
CUYAHOGA COUNTY

Mr. Drew Koler  
American Recycling Co., LTD.  
P.O. Box #27486  
Cleveland, OH 44127-0486

Dear Mr. Koler:

This letter is written to respond to your letter dated December 18, 2001 and to follow up our recent visit to your facility with Karen Kassouf of the Cleveland Local Air Agency (CLAA). On November 29, 2001, Tim Fischer of Ohio EPA - Division of Air Pollution Control, Randy Ohlemacher of Ohio EPA - Division of Hazardous Waste Management, and I accompanied Ms. Kassouf on her inspection of your facility. She was inspecting for compliance with air pollution control laws. The CLAA sent you a letter of warning dated December 7, 2001 concerning that inspection.

You submitted manifests documenting that all eight drums of solvent/PCB wastes have been properly removed from the site. We understand ARC has been gradually reprocessing drums of mixed phosphor powder and glass through the recycling system. Manifests were submitted demonstrating that sixteen drums of the reprocessed mercury contaminated phosphor powder were properly removed from the site as a D009 hazardous waste. You indicated that as of December 17, 2001 there were 25 drums of the glass/powder mixture to be reprocessed.

Fourteen drums of screener fines/sand are being stored near the recycling equipment. In the past, you mixed the screener fines with the larger pieces of glass going to Strategic Materials for recycling. About one drum of screener fines was mixed into the middle of each gaylord of larger glass. Since our June 28, 2001 sampling results showed this waste stream as hazardous for mercury, we asked that you suspend this practice until you could demonstrate its legitimacy. With your December 18, 2001 letter, you submitted a proposed sampling plan describing how a representative sample of this waste stream will be collected and analyzed. That plan continues to be reviewed.

You requested that specifics of your recycling equipment be treated confidentially as trade secrets. Randy Ohlemacher faxed to you a copy of the rule that addresses confidentiality requests and gave you related instructions. You requested information on other fluorescent lamp handlers that Ohio EPA visited in 2001. Enclosed are copies of letters sent to other facilities from Ohio EPA in 2001 that manage fluorescent lamps. I was unable to obtain comparative mercury lamp generator inspection activity in other Region 5 states that you requested.

AMERICAN RECYCLING CO., LTD.  
FEBRUARY 4, 2002  
PAGE - 2 -

You stated that all drums of PCB and non-PCB recycled ballast parts have been removed from the former facility site at 6701 Hubbard Avenue.

We have mutually set February 12, 2002 as the date we plan to visit ARC for the purpose of observing the mercury contaminated powder be reprocessed through your equipment. We understand all of the receptacles for the various production streams will be empty and weighed. We will be able to pick a drum to run through the system. You will run the drum through and weigh each receptacle with its contents. This procedure may be repeated for comparison purposes.

If you have any questions related to this letter, please feel free to contact me at (330) 963-1226.

Sincerely,



Sheryl K. Slone, P.E.  
Environmental Engineer  
Division of Hazardous Waste Management

SKS:ddw

Enclosure

cc: Natalie Oryshkewych, DHWM, NEDO  
Tammy McConnell, DHWM, CO  
Randy Ohlemacher, CAS, DHWM, CO  
Kenneth Zolnierczyk, USEPA, Region V  
Jeanette Smith, CAS, DHWM, CO  
Marcus Glasgow, AGO  
Greg Poulos, AGO

**NOTICE:**

**Ohio EPA's failure to list specific deficiencies or violations in this letter does not relieve your company from having to comply with all applicable regulations.**



State of Ohio Environmental Protection Agency  
Northeast District Office

2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

March 22, 2001

RE: SUNPRO  
OHO 000 333 336  
STARK COUNTY  
RCRA CEI NOV  
TRANSPORTER/TRANSFER FACILITY

Kenneth G. Kozak  
Sunpro  
7392 Whipple Ave., N.W.  
N. Canton, OH 44720-7140

A

RECEIVED  
OHIO EPA

MAR 26 2001

Dear Mr. Kozak:

DIV. OF HAZARDOUS  
WASTE MGT.

On March 13, 2001, Steve Pekarcik, Robert Almquist and myself, representing the Ohio Environmental Protection Agency (OEPA), Division of Hazardous Waste Management (DHWM), conducted an inspection for compliance with Ohio's hazardous waste regulations, as found in Chapter 3734 of the Ohio Revised Code (ORC), and Chapter 3745 of the Ohio Administrative Code (OAC) at Sunpro, located at 7392 Whipple Avenue N.W., N. Canton, Ohio. The purpose of the inspection was also to determine the following: how fluorescent lamps are being managed; how each "product" of the recycling/dismantling operation is being used; how material/waste is being handled on-site; and to determine the quantity of fluorescent lamps and other materials being managed. You represented the facility. The inspection included an inspection of company operations, and a review of written documentation.

Sunpro acts as a broker, transfer facility, and a transporter of fluorescent lamps, PCB wastes, hazardous and non-hazardous wastes. Sunpro also conducts the following services: environmental site services (i.e. PCB clean up, decontamination, remediation, and closure activities); electrical services (i.e. sampling/analysis of PCB equipment; transformer maintenance, and upgrades of electrical equipment); emergency response (i.e. spill cleanup, coordination with first responder agencies, and responding to in-plant hazardous/non-hazardous material accidents). Sunpro is not a generator of hazardous waste. Regarding fluorescent lamps, Sunpro receives used lamps from generators on a bill-of-lading, and then sends them to a lamp recycler (i.e. Superior, Luminar, or American Recycling). Sunpro usually receives the spent fluorescent bulbs in the same packaging the bulbs were bought in. They also receive metal halide and high pressure sodium bulbs. They receive approximately 500 bulbs per month, and they may store them for a few weeks or months.

A copy of our checklist is enclosed for your information. At the time of the inspection, Sunpro was evaluated for compliance with applicable Hazardous Waste Regulations. The inspection revealed that Sunpro is in violation of the following regulations:

**VIOLATIONS:**

1. Sunpro stored manifested hazardous waste in containers without proper Department of Transportation (DOT) packaging, in violation of Ohio Administrative Code (OAC) rule 3745-53-12.

It was noted during the inspection that there were four 1-gallon pails which contained D001 hazardous waste, none of which were labeled with the words "Hazardous Waste," or any other labeling.



SUNPRO  
MARCH 22, 2001  
PAGE - 2 -

To abate this violation, Sunpro shall work with Eslich Wrecking, the generator of the waste, and place the proper labeling on the containers. Sunpro shall take photographs of the properly labeled containers and send them to the Ohio EPA's Northeast District Office (NEDO).

2. Sunpro failed to sign a hazardous waste manifest in violation of OAC rule 3745-53-20.

It was noted during the inspection that manifest #95515 from Eslich Wrecking was transported by Sunpro on March 9, 2001, but there was no transporter signature on the manifest.

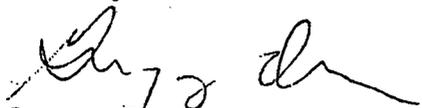
To abate this violation, Sunpro shall determine why the manifest was not signed. If the driver forgot to sign it, Sunpro shall sign the manifest with the date that the waste was transported. Sunpro shall document compliance by submitting an explanation and/or the signed manifest to the Ohio EPA's NEDO.

Failure to list specific deficiencies in this communication does not relieve you from the responsibility of complying with all applicable regulations. Please be advised that present or past instances of non-compliance can continue as subjects of pending or future enforcement actions.

You can find copies of the rules and other information on the hazardous waste division's web page at <http://www.epa.state.oh.us/dhwm>. Ohio EPA also has helpful information about pollution prevention at the following web address: <http://www.epa.state.oh.us/opp>.

Should you have any questions or concerns, please do not hesitate to call me at (330) 963-1189.

Sincerely,



Gregory Orr  
Environmental Specialist  
Division of Hazardous Waste Management

GO:ddw

cc: Natalie Oryshkewych, DHWM, NEDO  
Linda Neumann, DHWM, CO  
Steve Pekarck, DHWM, CO

Enclosure



State of Ohio Environmental Protection Agency  
Northeast District Office

2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

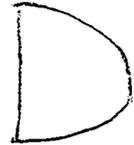
TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

August 15, 2001

RE: AMERICAN RECYCLING CO., LTD.  
OHD000720110  
CUYAHOGA COUNTY  
NOV #3

CERTIFIED MAIL



Mr. Drew Koler  
American Recycling Co., Ltd.  
P.O. Box #27486  
Cleveland, Ohio 44127-0486

Dear Mr. Koler:

On June 28, 2001, Ohio EPA visited your facility for the purpose of sampling American Recycling Co., Ltd.'s (ARC) wastes that are stored on-site. Ohio EPA had informed you of the purpose of our visit in a telephone call on June 22, 2001. Randy Ohlemacher, Eric Schultz, Frank Zingales, Nyall McKenna and I represented Ohio EPA. We met with you and Dan Bickley, the Plant Manager. Mr. Bickley assisted with the sampling and gave permission for photographs to be taken.

At the time of Ohio EPA's June 28, 2001, visit, Ohio EPA observed approximately 136 containers of unevaluated waste at the facility. Specifically, Ohio EPA observed 60 containers of waste phosphor powder, 8 containers of waste solvent, and 68 containers of waste you described as "screening fines" or "sand." You informed us that the 74 drums of mercury contaminated phosphor powder we observed during our March 12, 2001, visit to the facility had been consolidated into 60 drums and 6 of those had been reprocessed. You further explained that two of the ten drums of solvent that Ohio EPA observed during the March 12, 2001, visit had been determined to be virgin product.

During the June 28, 2001, sampling event, Ohio EPA opened each of the 60 drums of phosphor powder and 8 drums of solvent one at a time and observations were noted for each drum. Ohio EPA obtained grab samples from 3 of the solvent drums and 11 of the phosphor powder drums. One grab sample was obtained from one container of the "screening fines/sand."

The results from Ohio EPA's sampling show the following:

1. two of the three solvent drums sampled had a flash point < 140 degrees making them ignitable (D001) hazardous waste. All three of the solvent drums contained PCB's at greater than 50 mg/kg;
2. nine of the 11 phosphor powder drums had concentrations of mercury above the hazardous waste regulatory limit making them a toxic hazardous waste (D009); and

AMERICAN RECYCLING CO., LTD.  
AUGUST 15, 2001  
PAGE 2

3. the sample of "screening fines/sand" was also above the regulatory limit for mercury making the contents of the drum hazardous waste (D009) if not legitimately and in a timely manner recycled.

ARC is in violation of the following hazardous waste laws:

1. **Waste Evaluation - OAC Rule 3745-52-11**

ARC has failed to evaluate the waste phosphor powder, solvent, and "screening fines/sand," to determine if these wastes are hazardous waste, in violation of Ohio Administrative Code (OAC) rule 3745-52-11. ARC needs to immediately evaluate each container of waste phosphor powder, solvent, and "screening fines/sand" to determine if the wastes are hazardous waste or ARC can conservatively consider the remaining unevaluated drums to be hazardous waste and manage them as such.

If ARC claims the "screening fines/sand" is not a waste, ARC must submit appropriate documentation in accordance with OAC 3745-51-02(F) to support this claim. Ohio EPA can provide you with criteria for this documentation and would make a determination based on the documentation submitted.

2. **Illegal Storage of a Hazardous Waste at an Unpermitted Facility - Ohio Revised Code (ORC) 3734.02(E) & (F)**

Since ARC has accumulated at least twelve but as many as 136 containers of hazardous waste over approximately six years without a permit, it is the operator of an unpermitted hazardous waste storage facility, in violation of ORC § 3734.02(E) and (F). Therefore, ARC is subject to the requirements of OAC rules 3745-50-40 to 3745-50-62 and OAC Chapters 3745-54 to 57 and 3745-65 to 3745-69.

ARC must immediately arrange for the proper transportation and treatment or disposal of all containers of hazardous waste. Also, ARC must submit to Ohio EPA a written plan describing how these wastes will be managed as they continue to be generated.

3. **Illegal Transportation of a Hazardous Waste to an Unpermitted Facility - Ohio Revised Code (ORC) 3734.02(F)**

ORC 3734.02(F) prohibits any person from transporting, or causing to be transported, hazardous waste to an unpermitted facility. ARC transported, or caused to be transported, approximately 50 drums of D009 hazardous waste illegally from its previous location to the current location in approximately February 1999, in violation of ORC 3734.02 (F). Transporters are subject to the requirements of OAC Chapter 3745-53.

AMERICAN RECYCLING CO., LTD.  
AUGUST 15, 2001  
PAGE 3

4. Container Management - OAC 3745-52-34(A)

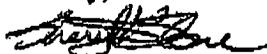
None of the drums of phosphor powder, "screening fines/sand," or solvents were labeled as hazardous waste. All containers of hazardous waste must be immediately labeled with the words "hazardous waste." All potential drums of hazardous waste must be labeled as such until you can confirm or document that they are not hazardous waste. All drums of hazardous waste must be closed except when actively adding or removing wastes from them in accordance with OAC 3745-66-73(A). Until all of these drums have been removed from the site as hazardous waste or have been documented not to be hazardous waste, they must be inspected weekly and aisle space maintained to access them.

Please submit documentation demonstrating the measures you have taken to return to compliance with each of the above rules, within 30 days of the date of this letter. Be advised that because of the above significant violations, we have referred your facility for consideration of escalated enforcement action.

A copy of the hazardous waste laws can be found on our web site at [www.epa.state.oh.us](http://www.epa.state.oh.us). If you should have any questions related to this letter, please feel free to contact me at (330) 963-1226.

The absence of listing a specific deficiency in this letter does not relieve ARC from the responsibility to comply with all applicable hazardous waste laws.

Sincerely,



Sherry Sloane  
Environmental Specialist  
Division of Hazardous Waste Management

SS:bo

cc: Natalie Oryshkewych, NEDO, DHWM  
Linda Neuman, CO

ec: Randy Ohlemacher, CAS, DHWM  
Todd Anderson, Legal  
Jeanette Smith, CAS, DHWM

To: Drew Koler, American Recycling Company, LTD. via fax

From: Randy Ohlemacher, Ohio EPA

cc: Sherry Stone, Ohio EPA

RE: Request for Confidentiality (OAC Rule 3745-50-30)

Drew,

Attached please find a copy of the rule the references the request for confidentiality. It may also be found on the web at [www.epa.state.oh.us/dhwm/laws.html](http://www.epa.state.oh.us/dhwm/laws.html). Click on Ohio Administrative Code (OAC). You do not have to include the language on every document as indicated in the rule, but should submit a letter with all appropriate information outlined in OAC 37445-50-30 including specific details of what ARC considers confidential and why. Ohio EPA would review the file and remove any confidential information if a public records request were to occur.

If you have any questions please feel free to contact me.

Randy

Chapter 3745-50

§ 3745-50-30. (A) The director may require additional information to evaluate the merits of the petition.

§ 3745-50-30. (B) The director may require additional information to evaluate the merits of the petition.

Ohio Administrative Code (OAC)

→ 3745-50-30 Trade secrets- request for confidentiality.

(A) Any record, report or other information obtained under the hazardous waste rules or Chapter 3734. of the Revised Code shall not be available to the public upon a showing satisfactory to Ohio EPA that all or part of such record, report or other information (other than discharge or emission data) would divulge methods or processes entitled to protection as trade secrets of such person, in which instance Ohio EPA must consider such record, report or other information or part thereof confidential and administer such record, report or other information pursuant to this rule.

(B) A request for confidentiality must be submitted to EPA simultaneously with submission of the specific record, report or other information, and such request must be accompanied by sufficient supporting documentation. Failure to make such timely request must constitute a waiver of the right to prevent public disclosure.

(C) A decision as to the confidentiality request must be made by Ohio EPA within forty-five days of receipt of a request filed in accordance with rule 3745-49-031 of the Administrative Code. Until such decision is made, the record, report, or other information or part thereof, must be confidential. The person requesting confidentiality must be notified by mail of the decision.

(D) Any record, report or other information determined to be confidential may be disclosed, without such person's consent:

- (1) To officers, employees, or authorized representatives of the state or federal agency;
- (2) In any judicial proceeding; and
- (3) In any hearing conducted by Ohio EPA or the board.

(E) As used in this rule, "trade secrets" mean any formula, plan, pattern, process, tool, mechanism, compound, procedure, production data or compilation of information which is not patented, which is known only to certain individuals within a commercial concern who are using it to fabricate, produce, or compound an

article, trade or service having commercial value, and which gives its user an opportunity to obtain a business advantage over competitors who do not know or use it.

Effective: 3/9/01  
Prior effective dates: 4/15/81, 5/22/81 (Emer.), 8/26/81 (Emer.), 12/2/81, 12/30/89  
119.032 review dates: 9/21/00, 9/21/05

Also can be found on internet site under DHWM, rules and regs. "OAC".

3745-50-31 Exemptions.

(A) The director by order may exempt any person from the requirements of this rule for the collection, storage, handling, transportation, disposal, or treatment of hazardous waste in such quantities or under such circumstances that in the determination of the director, the likelihood of adversely affecting public health or safety or the environment from any release of hazardous waste from such facility is negligible and the release complies with the requirements of Chapter 3734 of the Revised Code and related provisions of the federal Resource Conservation and Recovery Act of 1976, 90 Stat. 2691, 42 U.S.C. 6921, as amended, except as otherwise provided in Chapter 3734 of the Revised Code.

(B) Applications for exemptions must contain such detail plans, specifications and information regarding objectives, procedures, controls and other pertinent data as are necessary to satisfactorily demonstrate to the director that the issuance of the exemption will not adversely affect public health or safety or the environment. The director may require such additional information as he deems necessary.

(C) An incomplete application must not be considered. Within sixty days of the date of receipt of an incomplete application, the applicant must be notified in writing of the nature of any deficiency and of the director's refusal to consider the application until it is complete.

§ 3745-50-31. (D) The director may require additional information to evaluate the merits of the petition.

Effective: 3/9/01  
Prior effective dates: 4/15/81, 5/22/81 (Emer.), 8/26/81 (Emer.), 12/2/81, 3/4/85  
119.032 review dates: 9/21/00, 9/21/05



# AMERICAN RECYCLING COMPANY, LTD.

P.O. Box #27486 • Cleveland, OH 44127-0486  
Phone: (216) 281-9200 • FAX (216) 281-5505

## FAX COVER SHEET

SEND TO - Company Name OEPA - NE DISTRICT OFC	FROM DREW KOLER
Attention SHERYL SLONE	Date 12/27/01
Office location TWINS BURG	Office location
Fax number 330-487-0769	Phone number 216-281-2828

Urgent   
 Reply ASAP   
 Please comment   
 Please review   
 For your information

Total pages, including cover: 2

### COMMENTS

SHERYL, I HAVE ENCLOSED A COPY OF  
MANIFEST JOC # 01220 FOR THE SIX (6) DRUMS  
OF PHOSPHOR POWDER LIGHTING RESOURCES PICKED UP  
FROM ARC ON 12/20/01 - PLEASE SEE MY  
LETTER TO YOU DATED 12/18/01

PLEASE CALL ME WITH ANY QUESTIONS.

THANKS,  
DREW

cc. PHILIP S. - 550

Open to 5 PM (NO TIME) (3 AM) (1)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039.

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>OH D000720110</b>		Manifest Document No. <b>01220</b>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <b>Mr. Drew Kolar American Recycling Company 3203 W. 71st St. Cleveland, OH 44102</b>		4. Generator's Phone ( <b>216</b> ) <b>281-2828</b>		5. Transporter 1 Company Name <b>Lighting Resources, Inc.</b>		6. US EPA ID Number <b>IN 0000351387</b>		A. State Manifest Document Number	
7. Transporter 2 Company Name		8. US EPA ID Number		9. Designated Facility Name and Site Address <b>Lighting Resources, Inc. 498 Park 800 Drive Greenwood, IN 46143</b>		10. US EPA ID Number <b>IN 00003512387</b>		B. State Generator's ID	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
a. <b>RQ, Hazardous Waste Solid, No. 6., 9, NA3077, PGIII, (phosphor powder containing mercury)</b>		No. <b>006</b> Type <b>DRM</b>		<b>03900</b>		<b>P</b>		<b>0000</b>	
b. <i>Handwritten: Dry ... WASTE ...</i>		No. <b>001</b> Type <b>F</b>						<i>Handwritten: 0001</i>	
c.									
d.									
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above			
<b>11a. Drums of Calcium Phosphor Powder for Retort (recycling)</b>						<b>T-47 (recycling)</b>			
15. Special Handling Instructions and Additional Information									
<b>Chem-Tel 24HR Emergency Contact: 1-800-255-3924</b>						<b>Deliver (6) Steel Drums for Replacements</b>			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name <b>Rich Hill</b>				Signature <i>Rich Hill</i>		Month Day Year <b>12/27/01</b>			
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed/Typed Name <b>Bryan Key Driver for LRI</b>		Signature <i>Bryan Key</i>		Month Day Year <b>12/27/01</b>	
18. Transporter 2 Acknowledgement of Receipt of Materials				Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name				Signature		Month Day Year			



GENERATOR COPY

\* \* \* COMMUNICATION RESULT REPORT ( JAN. 4.20 9:19AM ) \* \* \*

FILE MODE	OPTION	ADDRESS (GROUP)	TTI OHIO EPA NEDO	RESULT	PAGE
529	MEMORY TX	DHWM CO		OK	P. 8/8

REASON FOR ERROR

E-1) HANG UP OR LINE FAIL  
E-3) NO ANSWER

E-2) BUSY  
E-4) NO FACSIMILE CONNECTION

Post-It® Fax Note	7671	Date	01/04/02	# of Pages	8
To	RANDY OHLEWACH	From	SHERRY SLOVE		
Co./Dept.	CO-DHWM	Co.	NEDO		
Phone #		Phone #	X226		
Fax #		Fax #			

RECEIVED  
DEC 20 2001  
OHIO EPA NEDO

American Recycling Company, Ltd.  
3203 West 71<sup>st</sup> Street  
Cleveland, Ohio

Proposed Quality Assurance Project Plan  
for  
TCLP Characterization of Screener Sand for Mercury

December 14, 2001



AMERICAN RECYCLING  
COMPANY, LTD.

P.O. Box #27486 • Cleveland, OH 44127-0486  
Phone: (216) 281-9200 • FAX (216) 281-5505

FILE  
RECEIVED  
DEC 20 2001  
OHIO EPA NEDO

December 18, 2001

Certified Mail

Ms. Sheryl K. Slone  
Ohio EPA – Northeast District Office  
Division of Hazardous Waste Management  
2110 E. Aurora Road  
Twinsburg, OH 44087-1969

Dear Ms. Slone:

We have the following comments on your letter dated November 21<sup>st</sup> and our meeting at the OEPA Twinsburg Office on October 25<sup>th</sup>:

- Please see the enclosed ARC Proposed Quality Assurance Project Plan for TCLP Characterization of Screener Sand for Mercury from Amendola Engineering. Let me know if you want any changes to the proposed plan and then we can schedule a mutually agreeable sampling date at ARC. A sampling date the week of January 7<sup>th</sup> is okay with us. The sampling plan and test results are part of our demonstration that ARC current and past handling of the Screener/Fines Sand glass is legitimate recycling.
- We have an update on the waste plan we submitted on October 25<sup>th</sup>:
  1. 10 Hg phosphor powder drums were picked up by Lighting Resources on November 13<sup>th</sup> (See enclosed Manifest Document No. 01112). I gave you a copy of this manifest when you were at ARC on November 29<sup>th</sup> for your visit with OEPA-DAPC. Lighting Resources is scheduled to pick up 6 more drums of the Hg phosphor powder on December 21<sup>st</sup>. All Hg phosphor powder drums we reclaimed in 2001 will be removed from ARC for beneficial reuse with the December 21<sup>st</sup> pick up.
  2. Please see our attachment which shows the breakdown for the 74 total drums you originally assumed all contained Glass/Hg Phosphor Powder during your visit on March 12<sup>th</sup>. We discussed the breakdown of these drums on June 28<sup>th</sup> when you were at ARC to sample some of these drums. At that time you observed 60 drums for your random sampling. The breakdown you requested again on October 25<sup>th</sup> demonstrates that all the original and remaining intermediate glass/phosphor powder drums we are reprocessing are accounted for. The attachment also shows the test results for 2 glass/phosphor powder drums we chose at random to determine the weight percentage of the main constituents- metal end caps, phosphor powder, glass fines-sand and glass pieces. The 2 drums were reprocessed thru the lamp recycling system in July.

The total net drum constituent weights and weight percentages after reprocessing are shown. This clearly demonstrates on an individual drum and combined drum average weight basis that the glass fines-sand/glass are the majority percentage of these drums with end caps/phosphor powder comprising a minority percentage. We are proposing a mutually agreeable date the first half of January 2002 for OEPA to observe the reprocessing of some intermediate glass/phosphor powder material at ARC.

3. Safety-Kleen PPM removed the 8 drums of waste solvent from ARC on December 13<sup>th</sup> (See enclosed Hazardous Waste Manifest Document No. 12131).

and PCB's

4. EnviroServe removed 11 PCB/Non-PCB recycled light ballast parts drums on November 19<sup>th</sup> and the remaining 10 drums of this material on December 17<sup>th</sup> (See enclosed Waste Manifest Document No.'s 21001 and 21003 respectively). All of the PCB/Non-PCB recycled light ballast parts drums have now been removed from the former ARC 6701 Hubbard Avenue location. An ARC employee originally reported in October that there were 22 full light ballast parts drums at the former location but discovered that one of these drums was empty, so the total drum number was 21, not 22 that I indicated in our proposed plan dated October 24<sup>th</sup>.

- We provided copies of information on our high efficiency phosphor powder collector and carbon filters to you during your visit on November 29<sup>th</sup> with OEPA-DAPC representatives.
- We are requesting the following information and support from OEPA to assist ARC with our lamp recycling program:
  1. We have requested on several occasions, including at our meeting in Twinsburg on October 25<sup>th</sup> and your recent visit to ARC on November 29<sup>th</sup>, that all OEPA personnel and OEPA subcontractors/vendors treat all ARC lamp recycling equipment and process information (including photographs) and know how as strictly confidential and trade secrets. Although you have assured us that this is the case, Randy Ohlemacher stated that our simply asking that this be done and marking documents "confidential" was not sufficient, and that we would need to mark all photographs we wanted treated as confidential/trade secrets appropriately. Randy stated that he would send information on how to accomplish the confidential/trade secret protection. We have still not received any response from Randy, or official verification that OEPA will protect ARC confidential/trade secret information. We have no way to mark any photographs that were taken with your digital camera as confidential/trade secret, but these photographs must be protected. Please send me your response and verification on this matter as soon as possible.

2. Randy Ohlemacher indicated at our October 25<sup>th</sup> meeting that he would forward us all the information available pertaining to lamp recycling broker and processing facility inspections conducted by OEPA this year.

As I indicated in my letter to you dated May 15<sup>th</sup> and our meeting on October 25<sup>th</sup>, it is crucial for ARC and other Ohio lamp recyclers to have appropriate OEPA support for legitimate Ohio lamp recyclers to remain competitive and prosper.

ARC lamp recycling sales volume is less than 10% of our original plan of 5 million lamps per year and is growing only modestly. This is critical because unlike some of our larger Ohio competitors, who have more funding sources available to them, ARC revenues are based entirely on lamp recycling sales.

We would also like to have all information OEPA has on inspection activity and results for mercury lamp generators in Ohio. Any information you have on comparative mercury lamp generator inspection activity in other Region 5 states, like Minnesota and Wisconsin would also be useful.

If you need further clarification or have any questions please call me at 216-281-2828.

Sincerely,



Drew Koler  
Managing Member  
American Recycling Co., Ltd. (ARC)

Enclosures

Cc: Dan Bickley-ARC  
Philip Schillawski-SSD

**American Recycling Company (ARC)  
Intermediate Glass/Phosphor Powder Drum Reprocessing Inventory  
&  
Weight Percent Analysis for Two Glass/Phosphor Powder Mixture Drums**

- 74 – OEPA assumed Glass/Phosphor Powder Drum count on March 12<sup>th</sup> ARC visit
- 2 – Drums of Alkaline Batteries (ARC discovered before June 28<sup>th</sup> sampling)
- 2 – Drums of Screener Glass Fines/Sand
- 2 – Drums of Broken/Crushed Customer Lamps
- 8 – Drums of Glass/Phosphor Powder mixture that were reprocessed after March 12<sup>th</sup>
- 4 – Drums of Glass/Phosphor Powder mix in reprocessing staging area, not sampled\*
- + 4 – Drums of Final Hg Phosphor Powder (2 of 4 powder drs. sampled-No. 25 & 60)

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- = 60 – Total Drums in June 28<sup>th</sup> sampling plan (56 Drums of Glass/Phosphor Powder mixture + 4 Drums of Final Hg Phosphor Powder)
- 60 – Total Drums of Glass/Phosphor Powder mixture left for reprocessing on June 28<sup>th</sup> (56 drums in sampling plan + 4 drums in reprocessing staging area)
- 25 – Drums of Glass/Phosphor Powder mixture we reprocessed between June 28<sup>th</sup> and September 18<sup>th</sup> visits to ARC by OEPA

---

- = 35 – Total Drums of Glass/Powder left at ARC for reprocessing on September 18<sup>th</sup> (Randy Ohlemacher recommended that ARC keep track of each Glass/Phosphor drum we reprocess from now on during the September 18<sup>th</sup> visit)
- 7 – Drums of Glass/Phosphor Powder mixture we reprocessed between 9/18-10/24/01

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- = 28 – Drums of Glass/Phosphor left to reprocess on 10/24/01 (The 7 drums that were reprocessed between 9/18 and 10/24 include Drum No's 53, 59, 50, 56, 54, 48, and one (1) unnumbered drum from March 12<sup>th</sup> reprocessing staging area\*)  
We thought the total Drums of Glass/Phosphor left to reprocess was 27 on 10/24/01, but one (1) partially full drum on the reprocessing platform was not counted, so the actual total on 10/24/01 was 28 drums.
- 3 – Drums of Glass/Phosphor reprocessed between 10/25 and 12/17/01 (Drum No's 55, 49, and 46)

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- = 25 – Drums of Glass/Phosphor left to reprocess as of 12/17/01 (Drum No's 3,4,5,6,7,8,9,11,12,13,14,15,16,22,31,34,36,37,38,39,44,45,47,51,and 57)

**Weight Percent Analysis for Two Glass/Phosphor Powder Mixture Drums**

Drum ID:	No. 23	Unnumbered Drum	Combined Drums
Components: (Weight/%)*			
Metal End Caps:	14 / 2%	7 / 1%	21 / 2%
Phosphor Powder:	110 / 18%	10 / 2%	120 / 11%
Glass Sand:	157 / 25%	99 / 20%	256 / 23%
Glass Pieces:	339 / 55%	380 / 77%	719 / 64%
Totals:	620 / 100%	496 / 100%	1,116 / 100%

\* Total Net Reprocessing Recovery Weights in Pounds

DEC 20 2001

OHIO EPA NEDO

8.30 - 4:00 pm

(2)

Form Approved. OMB No. 2050-0039.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. OH D 0 0 0 7 2 0 1 1 0	Manifest Document No. 0 1 1 1 2	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address <b>Drew Kolar</b> American Recycling Company 3203 W. 71st St. Cleveland, OH 44102			A. State Manifest Document Number		B. State Generator's ID		
4. Generator's Phone ( 216 ) 281-2823			C. State Transporter's ID		D. Transporter's Phone 317-888-3889		
5. Transporter 1 Company Name <b>Lighting Resources, Inc.</b>		6. US EPA ID Number I N O 0 0 0 3 5 1 3 8 7		E. State Transporter's ID		F. Transporter's Phone	
7. Transporter 2 Company Name		8. US EPA ID Number		G. State Facility's ID		H. Facility's Phone	
9. Designated Facility Name and Site Address <b>Lighting Resources, Inc.</b> 498 Park 800 Drive Greenwood, IN 46143			10. US EPA ID Number I N O 0 0 0 3 5 1 3 8 7		317-888-3889		
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	13. Total Quantity	14. Unit W/Vol	1. Waste No.	
	a.	RM RQ, Hazardous Waste Solid, N.O.S., 9, HA3077, PGLII, (phosphor powder containing mercury)	0 1 0	D M	0 6 5 0 0	P	D009
	b.						
	c.						
	d.						
J. Additional Descriptions for Materials Listed Above <b>11a. Bags of Calcium Phosphor Powder for Recycling</b>			K. Handling Codes for Wastes Listed Above <b>T-47 (recycling)</b>				
15. Special Handling Instructions and Additional Information <b>Chem-Tel 24HR Emergency Contact # 1-800-255-3924</b> <i>Deliver (10) steel Repackaging drums</i>							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name <i>[Signature]</i>			Signature <i>[Signature]</i>		Month Day Year 11/1/01		
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials						
	Printed/Typed Name <b>Bryan Key Driver for LRI</b>			Signature <i>[Signature]</i>		Month Day Year 11/1/01	
	18. Transporter 2 Acknowledgement of Receipt of Materials			Signature		Month Day Year	
FACILITY	19. Discrepancy Indication Space						
	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.			Signature		Month Day Year	



GENERATOR COPY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>OHCFAD RT26 112131</b>	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <b>American Recycling 3203 W. 71st St. Cleveland, OH 44102</b>		4. Generator's Phone <b>216-281-2828</b>		A. State Manifest Document Number		
5. Transporter 1 Company Name <b>Safety-Kleen(TG) Inc.</b>		6. US EPA ID Number <b>SCR000074591</b>		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone	<b>800-995-9762</b>	
9. Designated Facility Name and Site Address <b>Safety-Kleen(PM) Inc. 1672 E. Highland Rd Twinsburg, OH 44087</b>		10. US EPA ID Number <b>OH D 9 8 6 9 7 5 3 9 9</b>		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone	<b>800-995-9762</b>	
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
	a.	<b>RM, Polychlorinated Biphenyls, Liquid, 9, UN2315, PGI II</b>	No. <b>009</b> Type <b>DM</b>	<b>0.600</b>	<b>K</b>	
	b.					
	c.					
	d.					
J. Additional Descriptions for Materials Listed Above <b>A. PCB Oil/Kerosene</b>			K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information <b>24hr emergency response 800-458-1760</b>						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name <b>David L Buckley</b>		Signature <i>[Signature]</i>		Month Day Year <b>12/13/01</b>		
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials					
	Printed/Typed Name <b>Felix Creecher</b>		Signature <i>[Signature]</i>		Month Day Year <b>12/13/01</b>	
	18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year		
FACILITY	19. Discrepancy Indication Space					
	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name		Signature		Month Day Year		



**GENERATOR COPY**



WASTE MANAGEMENT DIVISION  
MICHIGAN DEPARTMENT OF  
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE

ATT.  DIS.  REJ.  PR.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. **OH D002321321** Manifest Document No. **2100**

2. Page 1 of 1 Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number **MI 8278207**

B. State Generator's ID

C. State Transporter's ID

D. Transporter's Phone **(216)642-1311**

E. State Transporter's ID

F. Transporter's Phone **(000)000-0000**

G. State Facility's ID

H. Facility's Phone **(800) 592-5489**

3. Generator's Name and Mailing Address **AMERICAN RECYCLING COMPANY  
6701 HUBBARD AVENUE  
CLEVELAND, OH 44127**

4. Generator's Phone **216 281-2828**

5. Transporter 1 Company Name **ENVIROSERVE, J.V.**

7. Transporter 2 Company Name

9. Designated Facility Name and Site Address **WAYNE DISPOSAL, INC. (SITE #2)  
49350 N I-94 DRIVE  
BELLVILLE, MI 48111**

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER) **HM RQ, WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, UN2315, PGII. (PCB Ballasts)**

a.	X	12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
		<b>011</b>	<b>02200</b>	<b>K</b>	<b>PCB5</b>
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above  
 A: **1011011PBF ERG#171 (Attached EQ continuation sheet)**  
 B:  
 C:  
 D:

K. Handling Codes

a
b
c
d

15. Special Handling Instructions and Additional Information  
**Del 11-16-01 0900 EQ-T  
 24 HOUR EMERGENCY CONTACT: 800-642-1311 (ENVIROSERVE)**

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name **Rich Hill** Signature **Rich Hill** Date **11/19/01**

17. Transporter 1 Acknowledgement of Receipt of Materials  
 Printed/Typed Name **GREGORY RUDNICK** Signature **Greg Rudnick** Date **11/19/01**

18. Transporter 2 Acknowledgement of Receipt of Materials  
 Printed/Typed Name \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  
 Printed/Typed Name \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

CENTER AT 1-800-424-6802 24 HOURS PER DAY



WASTE MANAGEMENT DIVISION  
MICHIGAN DEPARTMENT OF  
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE  
ATT.  DIS.  REJ.  PR.

Required under authority of Part 111 and Part 121 of Act 461, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-252-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-6802 24 HOURS PER DAY.

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. O H D 0 0 2 3 2 1 3 2 1 2 1 0 0 3		Manifest Document No. 2 1 0 0 3	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address AMERICAN RECYCLING COMPANY 6701 HUBBARD AVENUE CLEVELAND, OH 44127				A. State Manifest Document Number MI 8178856		B. State Generator's ID	
4. Generator's Phone 216) 281-2828		6. US EPA ID Number O H D 9 8 7 0 5 0 5 6 4		C. State Transporter's ID		D. Transporter's Phone (216) 642-1311	
5. Transporter 1 Company Name ENVIROSERVE, J.V.		8. US EPA ID Number		E. State Transporter's ID (000) 000-0000		F. Transporter's Phone	
7. Transporter 2 Company Name		10. US EPA ID Number L M I D 0 4 8 0 9 0 6 3 3		G. State Facility's ID		H. Facility's Phone (800) 592-5469	
9. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. (SITE #2) 49350 N I-94 DRIVE BELLVILLE, MI 48111				13. Total Quantity		14. Unit Wt/Vol	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER) HM a. X RQ, WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, UN2315, PGII, (PCB Ballasts)				12. Containers No. Type 010 D M 01700 K		15. Waste No. PCB5	
J. Additional Descriptions for Materials Listed Above 11a) 1011011PBF ERC/171				K. Handling Codes			
15. Special Handling Instructions and Additional Information 24 HOUR CONTACT # 1-800-642-1311 (EnviroServe)							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed/Typed Name Rich Hill		Signature Rich Hill	
18. Transporter 2 Acknowledgement of Receipt of Materials				Printed/Typed Name GREGORY PLONIK		Signature Greg Plonik	
19. Discrepancy Indication Space				Printed/Typed Name		Signature	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.				Printed/Typed Name		Signature	

FILE

RECEIVED  
DEC 20 2001  
OHIO EPA NEDO

**American Recycling Company, Ltd.  
3203 West 71<sup>st</sup> Street  
Cleveland, Ohio**

**Proposed Quality Assurance Project Plan  
for  
TCLP Characterization of Screener Sand for Mercury**

**December 14, 2001**

**Prepared for American Recycling Company, Ltd.**

**by**

**Amendola Engineering, Inc.  
20220 Center Ridge Road, Suite 236  
Rocky River, Ohio**

**Quality Assurance Project Plan  
TCLP Characterization of Screener Sand for Mercury**

**1. Introduction**

American Recycling Company, Ltd., (ARC) processes spent glass fluorescent light tubes and spent glass high intensity discharge (HID) lights for recovery of aluminum, glass and phosphor powder at its facility located in Cleveland, Ohio. The aluminum is recycled off-site; the glass is processed off-site into fiberglass products; and, the phosphor powder containing mercury is processed off-site for recovery of mercury. Over a period of several months the raw material mix can be 75 to 90 per cent standard fluorescent tubes and the balance HID lights. The ARC process comprises pre-inspection of incoming materials and a series of crushing, screening and separation steps to produce the above materials. The operations are conducted in enclosed systems under negative pressure such that phosphor powder containing mercury is captured in a high-efficiency dust collector and residual mercury vapor is captured on a granular activated carbon filter.

The crushed glass is screened and visually inspected for removal of metal light filaments and other non-metal contaminants. The fine screen stream, which is primarily glass fines, is called screener sand. Until recently, screener sand had been mixed with the recovered glass and transported off site for beneficial reuse in manufacture of fiberglass.

Screener sand is produced at a rate of approximately one 55-gallon drum per week, depending upon the production schedule. Per request of Ohio EPA, ARC has segregated and maintained screener sand in drums on site. At this writing, there are approximately twenty-six, 55-gallon drums of screener sand on site pending completion of this study. Information about process operations and the specific raw materials processed when 15 of those drums were generated is not available. Since August 17, 2001, ARC has generated 11 additional drums of screener sand, and has kept records of process operations when those drums were generated.

There have been two Toxicity Characteristic Leaching Procedure (TCLP) tests conducted on screener sand for mercury, one below and one above the regulatory threshold (RT) of 0.20 mg/L:

<u>Sample Date</u>	<u>Sampler</u>	<u>Sample Number</u>	<u>Hg, mg/L</u>
02/05/01	ARC	B0105-02	0.08
06/28/01	Ohio EPA	C1F0263-15	0.249

The objective of this sampling program is to obtain sufficient data using SW 846 methods and data evaluation protocols to determine whether screener sand would be characterized as hazardous for mercury using the TLCP. The basic approach is to test a number of drums of screener sand generated recently at ARC under known typical operating conditions. The sampling and analysis program will be conducted under

controlled conditions and protocols identified in this quality assurance project plan (QAPP). The samples will be analyzed using the SW 846 TCLP, Method 1311 and specifically for mercury using Method 7471A. The results will be evaluated statistically using protocols set out in Chapter 9 of SW846.

## **2.0 Sampling and Analytical Plan**

### **2.1 Regulatory and Scientific Objective**

The objective of this project is to determine whether screener sand generated by ARC under typical operating conditions contains mercury at hazardous levels as defined by the TCLP. The regulatory threshold (RT) for mercury is 0.2 mg/L.

### **2.2 Physical Characteristics of Screener Sand**

Screener sand has the appearance of coarse quartz sand and contains fine particulate matter other than glass resulting from the process. The particulate matter other than glass comprises broken filaments, small pieces of ceramic and other detritus from the grinding and sizing operations. The screener sand appears visually homogeneous in nature in terms of size and composition within drums that were physically inspected and from drum to drum.

### **2.3 Type of Sampling Program**

Based on the physical characteristics of screener sand generated under typical operating conditions, the sampling program is designed as a systematic random sampling program under which up to eight drums generated during the period September 24, 2001, to December 12, 2001, will be sampled. Stratified-random sampling, which might be used in cases where differences in results might be expected for sub-populations or strata within a larger population, is not judged appropriate in this instance. It is anticipated that samples from six to eight drums will be analyzed and the results will be applicable to all drums of screener sand that have been maintained on site.

### **2.4 Sample Types**

The prior samples of screener sand subjected to TCLP testing referenced above were grab samples taken from two drums at different periods when operating conditions were not thoroughly documented. These samples may or may not have been representative of the material generated over several days time for each drum.

To ensure representative samples are collected for this study, a thief sampler will be used to collect top-to-bottom composite samples from the center of each drum (see Table 9-7, SW 846). Based on observation of the process and the method in which drums are filled over time, a top-to-bottom composite sample collected from the center of a drum is judged a representative sample. This has the advantage of collecting material

generated during the entire period over which the drum is filled (i.e., generally two to four days, depending on the production schedule).

## **2.5 Field Sampling Program and Quality Assurance/Quality Control**

### **2.5.1 Field Sampling and Sample Equipment Preparation**

Sampling will be conducted during one designated sampling day by a sampling technician from Environmental Control Laboratories (EC Labs) of Strongsville, Ohio. Amendola Engineering will witness the sampling program, provide assistance as necessary and ensure field quality assurance/quality control procedures are maintained. Any deviations from the sampling plan will be documented such that potential impacts on results can be assessed.

A template of the top of a drum will be prepared to permit sampling of each drum as close to the center of the cross-section as is reasonably possible. This will be done to ensure a consistent sampling approach, particularly for collection of the field duplicate sample (see below). Each drum to be sampled will be assigned a unique sample number that will be tracked throughout the study. The entire volume of sample collected with the thief sampler will be deposited into a pre-cleaned wide-mouth glass sample jar for transport to the laboratory. The lid on the sample jar will be taped shut and the jars will be labeled with the sample identification number and the date and time of sampling. No preservatives will be added to the sample; however, they will be chilled and maintained at approximately 4°C through delivery to the laboratory per Method 7471A.

EC Labs, the sampling and analytical contractor, will ensure new sampling equipment will be kept clean during transportation to the site and kept clean while at the site (see procedures noted below under Field Quality Assurance/Quality Control).

### **2.5.2 Field Quality Assurance/Quality Control**

Filed quality assurance/quality control (QA/QC) includes adherence to established sampling protocols and collection of selected QA/QC samples. Such samples may include trip blanks, filed duplicates and field spike samples. The physical characteristics of the screener sand and the pollutant of concern (mercury) are such that field spike samples are not feasible for this study.

New, pre-cleaned sample bottles and thief samplers will be used for each sample. Thus, cleaning of sampling equipment in the field between samples will not be necessary. Given the method detection level for mercury with Method 7471A, that new pre-cleaned sampling equipment and glassware will be used, and the low probability there would be significant mercury contamination of the glassware and sampling equipment, preparation and analyses of a trip blank sample and a field blank sample are not planned.

One field duplicate sample will be collected from the fourth drum that is sampled. The field duplicate sample will be collected in the same location and in the same manner as the original sample prior to sampling the next drum. The field duplicate will be processed and analyzed with the entire batch of samples as if it was an original sample.

### **2.5.3 Sample Chain of Custody**

Chain of custody protocols used by EC Labs will be followed for this study. Chain of custody and identification of samples will be documented from point of sample collection, transport and delivery of samples to the analytical laboratory and through analysis and reporting of results. Copies of chain of custody records will be provided with the analytical report from EC Labs.

### **2.5.4 Field Health and Safety**

Potential exposure routes of mercury at ARC are inhalation and dermal absorption. Standard field safety equipment will be used for this study (hard hats, safety shoes, safety glasses with side shields, latex gloves). Although significant dusting during sample collection is not anticipated, fabric filter face masks will be available should field personnel judge that dusting during sample collection may be a concern.

## **3.0 Laboratory Operations and Quality Assurance/Quality Control**

### **3.1 Analytical Methods and Quality Assurance/Quality Control**

Samples will be analyzed using Method 1311 – Toxicity Characteristic Leaching Procedure (TLCP) and Method 7471A for mercury in solid samples. The laboratory will follow all of the quality assurance/quality control procedures required by SW 846, the specific methods used in this study and its own quality assurance/quality control and laboratory health and safety programs. These are not repeated here but are available for review.

One laboratory duplicate sample will be analyzed for this study. The laboratory duplicate sample will be selected by the laboratory from one of the original samples other than the fourth drum sampled where a field duplicate sample was collected.

### **3.2 Sample Handling and Preparation**

The laboratory shall ensure the particle size of each sample meets the specifications set out in Methods 1311 and 7471A. If it is determined that particle size reduction is required for one or more samples, all samples will be processed in a similar manner. The laboratory shall also ensure that a representative sub-sample of each sample is prepared for analysis.

### 3.3 Data Reporting

The analytical laboratory will issue a data report to Amendola Engineering upon completion of the analyses. The report will include a summary of analytical results for each field and quality assurance sample collected and/or analyzed, internal laboratory quality assurance/quality control data and sample chain of custody records. Any deviations from the method protocols and any sample-specific analytical issues will be fully reported.

### 4.0 Assessment of Hazard Characteristic and Reporting of Study Results

The study results will be evaluated using the statistical protocols set out in Chapter 9 of SW846; specifically, the procedures set out in Box 1 of Chapter 9 – *Strategy for Determining if Chemical Contaminants of Solid Wastes are Present at Hazardous Levels*. Briefly, the sample mean, sample variance, standard deviation, and standard error will be calculated.

If the sample mean is equal to or greater than the RT for mercury of 0.2 mg/L and there is no process operating information that might lead to a different conclusion, mercury will be considered to be present in screener sand at a hazardous level. If the sample mean is less than the RT, the confidence interval for mercury concentrations will be determined. If the upper bound of the confidence interval is less than the RT using the statistic set out in SW846, then mercury will not be considered present in screener sand at a hazardous level.

If the mean is less than the RT but the upper bound of the confidence interval is above the RT, under SW 846 ARC has the option of collecting additional samples of screener sand to add to the database with the objective of determining the waste does not contain mercury at hazardous levels. This procedure may be repeated until additional sampling becomes impractical.

Amendola Engineering will prepare the final study report for ARC and any interim reports that may be necessary.

AMENDOLA ENGINEERING

DEC 20 2001

OHIO EPA NEDO

8.30 - 4:00 p.m.

(2)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039.

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. OH D 0 0 0 7 2 0 1 1 0	Manifest Document No. 0 1 1 1 2	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address <b>Drew Kolar</b> American Recycling Company 3203 W. 71st St. Cleveland, OH 44102				A. State Manifest Document Number			
4. Generator's Phone ( 216 ) 281-2823				B. State Generator's ID			
5. Transporter 1 Company Name <b>Lighting Resources, Inc.</b>		6. US EPA ID Number I N O 0 0 0 3 5 1 3 8 7		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 317-888-3889			
9. Designated Facility Name and Site Address <b>Lighting Resources, Inc.</b> 498 Park 800 Drive Greenwood, IN 46143		10. US EPA ID Number I N O 0 0 0 3 5 1 3 8 7		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility's ID			
				H. Facility's Phone 317-888-3889			
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
	a.	RM RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PGLII, (phosphor powder containing mercury)	0 1 0	D M	0 6 5 0 0	P	D009
	b.						
	c.						
	d.						
J. Additional Descriptions for Materials Listed Above <b>11a. Drums of Calcium Phosphor Powder for Recycling</b>				K. Handling Codes for Wastes Listed Above <b>T-47 (recycling)</b>			
15. Special Handling Instructions and Additional Information <b>Chem-Tel 24HR Emergency Contact # 1-800-255-3924</b>							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name <i>[Signature]</i>			Signature <i>[Signature]</i>		Month Day Year 11/1/01		
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials						
	Printed/Typed Name <b>Bryan Key Driver for LRI</b>			Signature <i>[Signature]</i>		Month Day Year 11/1/01	
	18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name			Signature		Month Day Year		
FACILITY	19. Discrepancy Indication Space						
	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name			Signature		Month Day Year		



GENERATOR COPY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of		Information in the shaded areas is not required by Federal law.	
		3. Generator's Name and Mailing Address		6. US EPA ID Number		A. State Manifest Document Number			
4. Generator's Phone		5. Transporter 1 Company Name		7. Transporter 2 Company Name		B. State Generator's ID			
9. Designated Facility Name and Site Address		10. US EPA ID Number		12. Containers		13. Total Quantity		14. Unit Wt/Vol	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		15. Special Handling Instructions and Additional Information		16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.		17. Transporter 1 Acknowledgement of Receipt of Materials		18. Transporter 2 Acknowledgement of Receipt of Materials	
19. Discrepancy Indication Space		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.							

GENERATOR

TRANSPORTER

FACILITY



**GENERATOR COPY**



City of Cleveland  
Michael R. White, Mayor

Department of Public Health  
Division of the Environment  
1925 St. Clair Avenue  
Cleveland, Ohio 44114-2080  
216/664-2300

SERVING OHIO EPA  
AS AGENCY 13 FOR  
CUYAHOGA COUNTY

CERTIFIED MAIL 7001 0360 0000 5380 6298  
RETURN RECEIPT REQUESTED

FILE:ARC

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DEC 13 2001  
OHIO EPA NEDO

December 7, 2001

DREW KOLER  
AMERICAN RECYCLING COMPANY  
P.O. BOX #27486  
CLEVELAND, OH 44127-0486

**LETTER OF WARNING: RECORD KEEPING**

Dear Mr. Koler:

On November 29, 2001, the Cleveland Local Air Agency (CLAA) conducted an inspection of American Recycling Company located at 3203 West 71<sup>st</sup> Street in Cleveland. A CLAA representative inspected all air contaminant sources within your facility. A requirement of that inspection is that a compliance determination be completed for each air contaminant source. This letter serves as notification that you are operating sources in violation of applicable statutes, regulations, or permit conditions.

American Recycling Company's operation of the ARC Lamp Recycling System violates Ohio Administrative Code rule (OAC) rule 3745-15-05 (D), in that records of actual operation to demonstrate that daily emissions do not exceed 10 lbs/day were not kept.

Unless you undertake some type of corrective action with respect to the above noted violations, you will remain in non-compliance.

American Recycling Company must demonstrate that emissions do not exceed de minimis levels to ensure the Lamp Recycling System emits no more than 10 lbs/day of particulate emissions. The CLAA request that American Recycling begin record keeping upon receipt of this letter and send photocopies of records 30 days after receipt of this letter. The records should contain actual operation that demonstrate that the daily emissions from the source were maintained at or below the de minimis exemption level of 10 lbs/day. Records can be sent to the Enforcement Representative below:

Karen E. Kassouf  
Cleveland Local Air Agency  
1925 St. Clair Avenue NE  
Cleveland, Ohio 44114

Assistance with state and/or federal regulations, rules, laws or permit conditions can be provided at no charge through Ohio EPA Small Business Assistance Program (SBAP). SBAP can be contacted at <http://www.epa.state.oh.us/dapc/sba/sbaintro.html> or (614)644-4830. CLAA makes no guarantee that the facility will meet the qualifying guidelines established by the SBAP.

Facilities that want to investigate methods of pollution prevention to reduce raw material usage and waste production can contact the Ohio EPA Office of Pollution Prevention (OPP). OPP can be contacted at <http://www.epa.state.oh.us/opp> or (614)644-3469 and there is no charge for their services.

This letter is being issued in concurrence with Ohio EPA and does not excuse any violations of local, state and federal laws or regulations regarding air pollution control. Violations of air pollution control laws may be pursued in local court or referred to Ohio EPA or USEPA for an enforcement action. Should you have any questions, please call Karen E. Kassouf at (216) 420-8050.

Sincerely,



Michael J. Krzywicki  
Program Coordinator, CLAA

MJK/kek

cc: Northeast District Office, Ohio EPA  
Tom Rigo, Manager, Ohio EPA FOPS (Certified Mail # 7001036000053806267)  
~~Sheryl Slone, NEDO, Division of Hazardous Waste Management (Certified Mail #7001036000053806274)~~  
Randy Ohlemacher, CAS, Division of Hazardous Waste Management (Certified Mail #7001036000053806281)  
Facility File and I:\envr\apc\inspections\minorsource2001\American Recycling\WarningLetter.doc



**AMERICAN RECYCLING  
COMPANY, LTD.**

P.O. Box #27486 • Cleveland, OH 44127-0486  
Phone: (216) 281-9200 • FAX (216) 281-5505

**ARC Memorandum**

Date: 3/18/97  
To: ARC Lamp Recycling System APC Design File  
From: D. Koler  
Re: Phone discussions and documentation from Dennis Bush & Nancy Meli of OEPA-Twinsburg Office demonstrating that the ARC Lamp Recycling System is a "De Minimis"/Exempt air source

Dennis B. returned my call on 3/17/97 and we discussed new ARC Fluorescent Lamp Recycling design/operation and applicability of "De Minimis"/Exempt air source status.

Two exemption categories were discussed per OAC Rule 3745-15-05

1. **Before Control Device (Dust Collector and Carbon Filter)**  
"De Minimis"/Exemption applies if less than 10 lb per day maximum potential for particulates (lamp phosphor powder) and less than 1 ton per year for hazardous air pollutants-HAPs (residual mercury vapor)

**OR**

2. **After Control Device (Dust Collector and Carbon Filter)**  
"De Minimis"/Exemption applies if less than 10 lb per day and ARC documents via APC equipment manufacturers control/removal efficiencies and calculations (See attached Manufacturers letters and ARC emissions calculations.

Dennis mailed me a copy of OAC Rule 3745-15-05 on 3/18/97 (see attached) for backup on the "De Minimis" air source rules.

Nancy M. also returned my call on 3/17/97 and verified what Dennis had discussed with me on the de minimis/exempt status of the ARC lamp recycling system.

In addition to Dennis's comments she felt that the lamp recycling system maybe classified as a grinding operation because we crush or grind the lamps before the control device.

Nancy did not feel that the mercury HAP rules applied to ARC because of the low actual-calculated mercury emissions and because ARC is not a major mercury user like mercury battery manufacturers.

Nancy faxed me sections of OAC Rule 3745-31-03 and 3745-35-02 on PTI/PTO exemptions on 3/18/97 for backup (see attached).

See attached backup ARC lamp recycling emission calculations and documentation.

**Calculations Demonstrating and Verifying that the ARC Lamp Recycling System  
is classified as "De Minimis/Exempt per OAC Rule 3745-15-05"**  
(Prepared 3/17/97 by D. Koler based on available/supplied information)

Calculations are based on OAC Rule 3745-15-05 actual controlled emissions.

**ARC phosphor powder dust collector calculations (██████████ Co.):**

0.005 grains/cf – dust collector mfg's particulate emissions – see letter dated 1/10/97  
x 1,250 cfm – lamp recycling system design air flow rate  
6.25 grains/minute  
x 60 minutes/hr  
375 grains/hr  
x 7 hrs/day – actual/typical daily lamp recycling schedule  
2,625 grains/day  
x 0.0648 grains/gram  
**170.1 grains/day divided by 454 grams per pound equals 0.37 pounds per day  
particulate emissions**

0.37 pounds per day of particulate emissions from the ARC dust collector is well below the de minimis limit of 10 pounds per day actual emissions.

Also note that the mercury carbon filter (see below) has a particulate pre-filter that will further increase the particulate removal efficiency-the carbon pre-filter removal efficiency was not included in the above calculations-the manufacturer rates the pre-filter particulate removal efficiency at 30%.

**ARC mercury vapor carbon filter calculations (██████████ Co.):**

250,000 lamps/year – ARC estimated annual lamp recycling volume  
x 25 mg mercury/lamp – avg. Hg concentration in lamps per various lamp mfg's  
6,250,000 mg Hg/year  
/ 1,000 mg/gram  
6,250 grams Hg/year  
/ 454 grams/pound  
**13.7 pounds/year of potential Hg emissions before the carbon filter**  
x 0.15 - the removal factor at 85% removal efficiency per mfg. letter dated 1/9/97  
**2.1 pounds/year of actual controlled Hg emissions after carbon filter\***  
This is well below the 1 ton (2,000 lb) per year de minimis limit.

\* The actual Hg emissions are much lower because these calculations assume all of the mercury in the lamps is in the vapor form which is not accurate. The U.S. EPA and lamp manufacturers report that much of the mercury in lamps stays in the solid lamp phosphor powder/particulate during recycling and is not released in the vapor form. This demonstrates that most of the mercury is removed by the ARC dust collector with the lamp phosphor powder/particulate before it reaches the carbon filter which is after the dust collector (see pg. 4 of enclosed U.S. EPA Report, Management of Used Fluorescent Lamps: Preliminary Risk Assessment – Final Report, October 1992.

REC'D 3/18/97 'AK

OAC 3745-15-05 "De Minimis" Air Contaminant Source Exemption.

- (A) For purposes of this rule, the following definitions apply:
- (1) "Actual emissions" means the amount of emissions an air contaminant source actually emits on a calendar day or calendar year basis, whichever is applicable.
  - (2) "Air contaminant" means particulate matter, dust, fumes, gas, mist, radionuclides, smoke, vapor, or odorous substances, or any combination thereof, but does not include water by itself.
  - (3) "Air contaminant source" or "source" means each separate operation or activity that results or may result in the emission of any air contaminant.
  - (4) "Air pollution control equipment" shall mean control equipment which is not, aside from air pollution control requirements, vital to production of the normal product of the source or to its normal operation. Equipment is vital if the source could not produce its normal product or operate without it.
  - (5) "Hazardous air pollutant" means any pollutant listed pursuant to Section 112(b) of the federal Clean Air Act.
  - (6) "Potential to emit" or "potential emissions" shall mean the amount of emissions of an air contaminant which would be emitted from a source during a twenty-four hour calendar day or calendar year basis, whichever is applicable, if that source was operated without the use of air pollution control equipment unless such control equipment is, aside from air pollution control requirements, necessary for the facility to produce its normal product or is integral to the normal operation of the source. Potential emissions shall be based on maximum rated capacity.
  - (7) "Similar sources" are:
    - (a) Sources for which construction and operation are essentially the same, although, the capacity of each source is not necessarily the same;
    - (b) Sources in which the physical or chemical process occurring in each source is essentially the same; and
    - (c) Sources from which essentially the same air pollutants are emitted.
- (B) Except as provided in Paragraphs (C), (D) and (H) of this rule and Division (B) of Section 3704.011 of the Revised Code, any air contaminant source is exempt from Chapter 3704 of the Revised Code and rules adopted thereunder, unless the potential emissions of any one of the following exceeds ten pounds per day: particulate matter, sulfur dioxide, nitrogen oxides, organic compounds, carbon monoxide,

lead or any other air contaminant.

- (C) The exemption contained in Paragraph (B) of this rule shall not apply to a source if any of the following applies:
- (1) A requirement established under the federal Clean Air Act or regulations adopted under it limits the emissions of an air pollutant from the source to less than ten pounds per day or restricts the operation of the source in a manner equivalent to an emission limit of less than ten pounds per day;
  - (2) The source is subject to an emission limit adopted by the Director to achieve and maintain the national ambient air quality standards or a rule adopted by the Director to protect public health and welfare limits the emissions from the source to less than ten pounds per day of an air pollutant or restricts the operation of the source in a manner equivalent to an emission limit of less than ten pounds per day;
  - (3) The source emits radionuclides;
  - (4) The source alone or in combination with similar sources at the same facility, would result in potential emissions of any air pollutant in excess of twenty-five tons per year. In determining the total emissions from a group of similar sources, an enforceable permit emission limit shall be used in lieu of the potential to emit for such source or sources; or
  - (5) The source emits more than one ton per year of any hazardous air pollutant or combination of hazardous air pollutants.
- (D) The exemption provided in Division (A) of Section 3704.011 of the Revised Code does not apply to an air contaminant source having potential emissions greater than ten pounds per day (or one ton per year of one or more hazardous air pollutants) of any air contaminant unless the owner or operator of the source maintains records that are adequate to demonstrate that actual emissions from the source did not exceed ten pounds per day (or one ton per year of one or more hazardous air pollutants) and unless that source is not subject to the limitations specified in Paragraph (C) of this rule.
- (E) In order to verify that actual emissions from a source described in Paragraph (D) of this rule complied with the requirements of Divisions (A) and (C) of Section 3704.011 of the Revised Code during its operations, the owner or operator of the source shall maintain records that show that emissions of any air contaminant from the source did not exceed ten pounds per day on each day the source emitted air contaminants, and that the source in any one year did not emit more than one ton of hazardous air pollutants as defined in Division (1) of Section 3704.03 Of the Revised Code, and that the emissions from the source, in combination with similar air contami-

nant sources at the same facility, did not result in potential emissions of any air contaminant from the facility in excess of twenty-five tons during the preceding calendar year. All the following information, if applicable, shall be adequate to make that demonstration:

- (1) A narrative description of how the emissions from the source were determined and maintained at or below the daily exemption level, and, for emissions of hazardous air pollutants, at or below the annual exemption level;
  - (2) A description of the air pollution control equipment used on the source and a statement that the source is not capable of operating without that pollution control equipment functioning;
  - (3) If air pollution control equipment is used, a copy of any report of the results of any emission test that was conducted following Ohio EPA approved methods, if applicable, or any other emission evaluation;
  - (4) A description of all production constraints required for the source to comply with the exemption levels;
  - (5) Records of actual operations that demonstrate that the daily and annual emissions from the source were maintained at or below the exemption level by the use of the necessary production constraints or pollution control equipment;
  - (6) A list of all similar sources at the same facility and a statement for each such source of the annual potential emissions. Compliance with Paragraph (C)(4) of this rule shall be demonstrated; and
  - (7) A summation of the total emissions from each exempt or similar source, a summation of stated potential emissions from all sources identified in Paragraph (E)(6) of this rule, and a certification under oath that the applicable exemption levels were complied with.
- (F) Records developed under Paragraph (E) of this rule shall be maintained by the owner of the source at a location at the facility for a period of two years following the recording of the information, and shall be provided to the director upon his request or upon the request of his authorized representative.
- (G) The owner or operator of such an exempt source not subject to Paragraph (E) of this rule, upon the request of the Director or his authorized representative concerning such source, shall provide information that is adequate to demonstrate that the source qualifies for the exemption.

- (H) Nothing in this rule shall be construed to exempt any source from requirements of the federal Clean Air Act, including its being considered for purposes of determining whether a facility constitutes a major source or is otherwise regulated under Chapter 3745-77 of the Administrative Code. In addition, THIS RULE DOES NOT EXEMPT any source that is a part of a major new source or major modification THAT would be required to meet any requirements under applicable state or federal regulations.
  
- (I) If a source exempt under this rule should at any time exceed the exempt emission levels provided in Paragraphs (B) and (D) of this rule, the owner or operator of such source shall immediately submit a written report describing the nature and cause of the exceedance. Upon request by the Director, the owner or operator of such source shall submit an application for a permit to install if required by Chapter 3745-31 of the Administrative Code and an application for a permit to operate pursuant to Chapter 3745-35 of the Administrative Code.

Effective: November 18, 1994

Certification: (signed by Donald R Schregardus, Director)  
November 3, 1994

Date

Promulgated under: R.C. Chapter 119  
Rule amplifies: R.C. Sections 3704.03  
and 3704.011  
Prior effective date: 4/20/94

st-it* Fax Note	7671	Date	3/18	pg	2
From	DREW KOLER				
From	Nancy Meli				
Co./Dept.	AMERICAN RECYCLING DEPA				
Phone #		Phone #	963 1239		
Fax #	371 4551	Fax #	487 0769		

3745-31-03

5

*Controlled*

- (w) Solvent cold cleaners that meet the provisions of paragraph (O) of rule 3745-21-09 of the Administrative Code and have a liquid surface area less than or equal to ten square feet or a reservoir opening of less than six inches in diameter.
- (x) Ink-jet printers.
- (y) Grinding and machining operations, abrasive blasting, pneumatic conveying, and wood working operations controlled with a fabric filter, scrubber, or mist collector designed to emit not more than 0.03 grains of particulate per dry standard cubic foot of exhaust gas with less than four thousand acfm volume, venting inside a building, and emitting less than ten pounds per day of non particulate air contaminants.
- (z) Uncontrolled grinding, machining, and sanding operations, abrasive cleaning operations (dry or wet), pneumatic conveying and woodworking operations that have no visible emissions, vent to the inside of a building and emit less than ten pounds per day of non particulate air contaminants.
- (aa) Parts washers and rinse tanks using detergent cleaners.
- (bb) Aluminum die-casting machines.
- (cc) Air contaminant sources at nonproduction research and development operations with a potential to emit from any air contaminant source of less than one ton per year of any criteria pollutant per air contaminant source.
- (dd) Vegetable oil storage tanks and pumps and valves used in vegetable oil processing operations.
- (ee) Gasoline dispensing facilities, as defined in paragraph (H) of rule 3745-21-01 of the Administrative Code, or other motor fuel dispensing facilities that are equipped with Stage I vapor control and are not located in Ashtabula, Butler, Clark, Clermont, Clinton, Columbiana, Cuyahoga, Delaware, Franklin, Geauga, Greene, Hamilton, Jefferson, Lake,

**3745-35-02 Permits to operate**

(A) No person may cause, permit, or allow the operation or other use of any air contaminant source without applying for and obtaining a permit to operate from the Director in accordance with the requirements of this rule except

- if PTE exempted here also*
- (1) as otherwise provided in paragraph (h) of this rule and in rules 3745-35-03 and 3745-35-05 of the Administrative Code; or
  - (2) if the air contaminant source is a source listed under permanent exemptions in paragraph (a)(1) of rule 3745-31-03 of the Administrative Code or a source for which the director has granted a discretionary exemption under paragraph (a)(2) of rule 3745-31-03 of the Administrative Code; or
  - (3) if the air contaminant source is part of a facility, as defined in chapter 3745-77 of the Administrative Code, that is required to obtain a Title V permit under chapter 3745-77 of the Administrative Code; or
  - (4) as otherwise provided by section 3704.011 and division (f) of section 3704.03 Of the Revised Code and rule 3745-15-05 of the Administrative Code.

*DE MINIMIS*

(B) Applications for permits to operate.

- (1) Applications for permits to operate shall be signed, in the case of a corporation, by a principal executive officer of at least the level of vice president, or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the emission described in the application originates.
- (2) Applications for permits to operate shall be signed, in the case of a partnership, by a general partner.
- (3) Applications for permits to operate shall be signed, in the case of sole proprietorship, by the proprietor.
- (4) Applications for permits to operate shall be signed, in the case of municipal, state, federal or other governmental facility, by the principal executive officer, the ranking elected official,



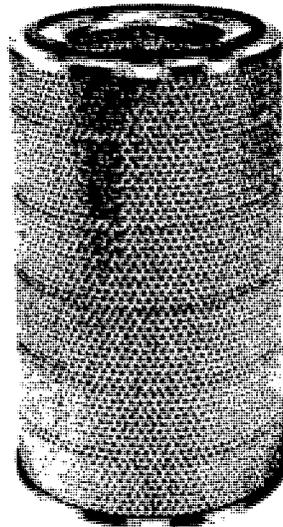
# DUST COLLECTORS

New [REDACTED] Cartridge Collector permits higher than normal filter rates at reduced pressure drop without loss of efficiency.

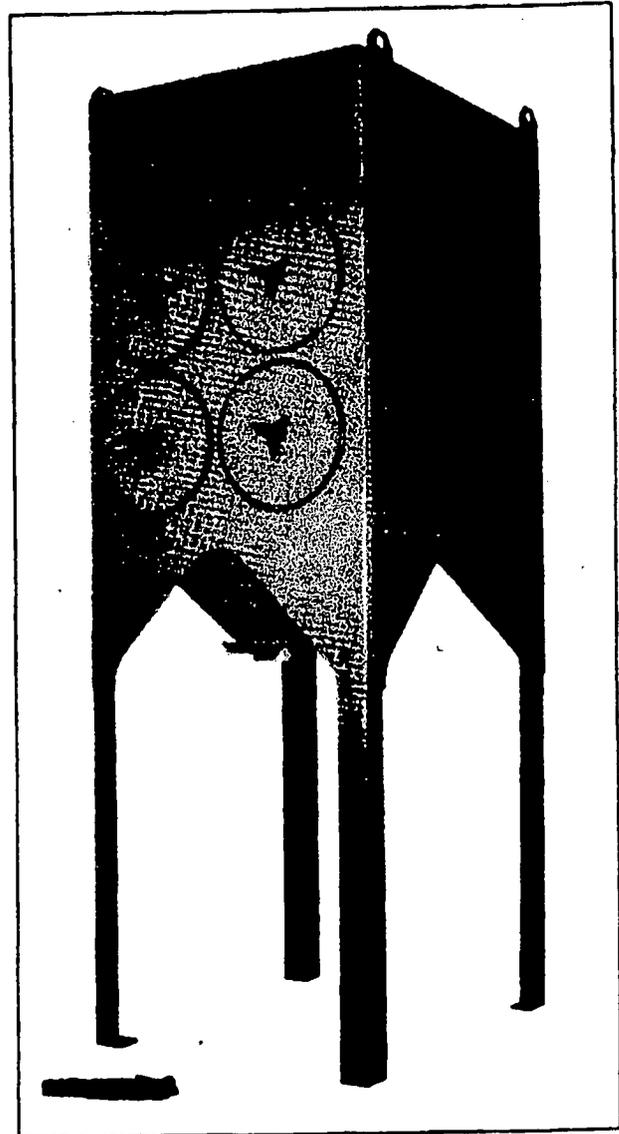
## EFFICIENT FILTRATION TECHNOLOGY

Designed for easy maintenance. Units can be serviced without the need for walkways or platforms; a benefit of [REDACTED] unique front cartridge removal design. Service personnel gain entry into cartridge compartment through convenient access portholes. Unscrew the knob/handle and remove the door to expose cartridges. Workers are always outside the unit, on the clean air side, away from hazardous conditions.

WITH QUICK-CHANGE  
[REDACTED] FILTER ELEMENTS



In normal pulse-jet collector operation, air enters the hopper and flows upward. When bags or cartridges are pulse-jet cleaned, some dislodged dust is re-entrained thus reducing cleaning and filtering efficiency. But [REDACTED] design reverses the direction of airflow, taking advantage of gravity and airflow direction, forcing dislodged dust to fall directly into the collector hopper. This results in much cleaner filters and lower operating pressure drop. High filtration velocity and fine particulate applications will be especially benefited by [REDACTED] design.



Directional downflow of contaminated air, assisted by gravity, minimizes re-entrainment of dust dislodged by cleaning pulse of 90 psig compressed air.

ARC DUST COLLECTOR

[REDACTED]

ARC CARBON FILTER

[REDACTED]

[REDACTED]

January 09, 1997

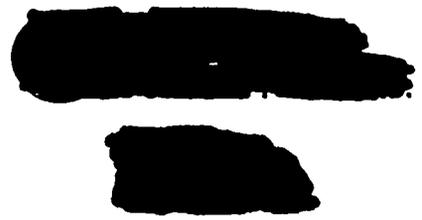
Mr. Drew Koler  
American Recycling Company, Ltd  
P. O. Box 27486  
Cleveland, Ohio 44127-0486

Dear Mr. Koler:

With regards to your request for some type of statement from [REDACTED] Corporation on the efficiency of our unit when used to adsorb Mercury Vapor in an air treatment application, we offer the following.

We have suggested a 99% efficient unit and also, by request, have suggested a unit that is considered approximately 85% efficient. The efficiency of the unit is calculated as a mechanical efficiency. By putting two of the 85% mechanical efficient units in series and gasketing them on the filters and doors, we could then consider these units to be in the range of 95% efficient. Any mercury that would not be adsorbed in the first unit would then be adsorbed in the second unit. Considering the hazardous nature of the contaminant in question (mercury), we feel that the exhaust airstream from the carbon units should NOT be recirculated.

# Product Information



## SUGGESTED SPECIFICATIONS FOR FLS LOADING CARBON ADSORBERS

The side loading adsorber assembly shall be [REDACTED] series with 2" thick panels. Access to both sides of each assembly is provided by means of hinged access doors.

The housing shall be fabricated from 14 gauge minimum cold rolled steel, painted, galvanized or 304 stainless steel with 2" wide x 1/8" thick minimum inlet and outlet carbon steel flange angles.

Vertical support channels shall be on 24" nominal spacing. The overall length of the units shall be 34" maximum (the depth would be 33" maximum, if bolted access panels are supplied in lieu of hinged access door) and shall house 4" prefilter along with the appropriate carbon panels. The prefilter slides in a sheet metal channel frame. For other custom options, please refer to [REDACTED] Corporation-supplied drawing.

The carbon panels shall be arranged in a "V" bank with 8 panels per each 24 inch height allowance. The minimum included angle between carbon panels should be no less than 6°. At 0.25 sec. residence time, the face velocity shall be 312.5 fpm and a pressure drop of 0.75 in. W.C. At 0.125 sec. residence time, the face velocity shall be 625 fpm and a pressure drop of 1.5 in. W.C. Particulate filter pressure drops are not included in the above pressure drop calculations. With proper particulate filtration, carbon bed pressure drops shall not increase.

Carbon panels for standard air purification are fabricated from 28 gauge cold rolled perforated screen coated with enamel, galvanized, plastic or stainless steel. The screens have .062" diameter holes on 3/32" staggered centers. For more corrosive atmospheres, [REDACTED] would suggest either plastic or stainless steel panels depending on the owners specific requirements.

The [REDACTED] adsorbent base material shall be as shown on the [REDACTED] Corporation-supplied drawing.



RC ACTIVATED CARBON  
**PRODUCT INFORMATION**

**ACTIVATED CARBON**

**TYPE CBII  
COAL BASED CARBON**

STANDARD SPECIFICATION

CCL, Activity Level, ASTM D-3467	60% Minimum
Moisture Content, ASTM D-2867	5% Maximum
Particle Size, ASTM D-2862	4x10 US mesh

TYPICAL PROPERTIES

Hardness, ASTM D-3802	95
Bulk Density, ASTM D-2854	.58 g/cm <sup>3</sup>
Ash Content, ASTM D-2866	10

PACKAGING

50 pound bags	15 gallon drums
55 gallon drums	1,000 or 1,100 pound bulk sacks
Bulk tanker	

NOTES

Unless otherwise specified, particle size distribution will be 5% maximum on the top screen and 5% maximum through the bottom screen.

An MSDS is available for all [REDACTED] activated carbons.

In the event the moisture exceeds our 5% maximum, [REDACTED] will weight adjust to the 5% limit.

[REDACTED]

# Management of Used Fluorescent Lamps: Preliminary Risk Assessment

## *Final Report*

*Submitted to:*

Mr. David Layland  
U. S. Environmental Protection Agency  
Office of Solid Waste  
Characterization and Assessment Division  
Washington, D. C. 20460

*Submitted by:*

Robert S. Truesdale  
Stephen M. Beaulieu  
Terrence K. Pierson, Ph.D.

Research Triangle Institute  
Post Office Box 12194  
Research Triangle Park, North Carolina 27709

*Authorized by:*



T. K. Pierson, Manager  
Environmental Risk Analysis Department



D. F. Naugle, Center Director  
Center for Environmental Analysis

## Section 1

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Table 1-1 lists, by type and manufacturer, average mercury content of used mercury-containing lamps received for recycling by Mercury Technologies, Inc. Table 1-2 lists the ranges of mercury and other metals in typical mercury-containing lamps, along with their total weights. Since 1988, cadmium in fluorescent lamps has been eliminated or reduced to insignificant quantities. However, lamps manufactured earlier than 1988 can contain significant amounts of cadmium (about 8,000 mg/kg; Walitsky, 1992) and many of these lamps are still in service. Lighting Resources, Inc., a California recycler of fluorescent lamps, reports that phosphor powder reclaimed from used lamps currently must be disposed of as a hazardous waste because of its cadmium content (~4,000 mg/kg). With older lamps being removed from service, these cadmium levels should decrease sharply over the next 2-3 years.

Table 1-3 shows mercury contents of both new and used 4-foot fluorescent lamps, measured in a recent EPA study. Although the average mercury content of this sample is about 30 mg/lamp, there is considerable lamp-to-lamp variability. NEMA has reported to EPA that the average mercury content of four foot fluorescent lamps has decreased from 48 mg in 1985 to 41 mg in 1990, and will continue to decrease to 27 mg in 1995 (Walitsky, 1992).

\* The phosphor powder in cool white fluorescent lamps is typically chlorofluorohydroxyapatite (CaHPO<sub>4</sub>) crystals (Walitsky, 1992). Although the phosphor powder contains no mercury when added during the manufacture of new lamps, it tends to hold much of a lamp's mercury when it is removed during recycling operations. Table 1-4 shows an elemental analysis of phosphor powder removed from used fluorescent lamps by a California recycler. Calcium is the major component in this analysis, with mercury and cadmium concentrations of 4,700 ppm and 1,000 ppm, respectively. Analyses of 12 samples of phosphor powder by Mercury Technology, Inc. (another California recycler) indicated a mercury content ranging from 868 ppm to 10,200 ppm, with an average of about 5,000 ppm.

Based on the information presented above, we are assuming that a typical 4-foot fluorescent lamp contains about 40 mg of mercury and that the concentration of mercury in the phosphor powder removed from used lamps is about 5,000 ppm. It follows that there are about 6 to 8 grams of phosphor powder per 4-foot lamp.

Rec'd 11/29/01

**ARC** AMERICAN RECYCLING  
COMPANY, LTD.

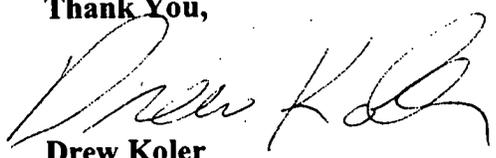
P.O. Box #27486 • Cleveland, OH 44127-0486  
Phone: (216) 281-9200 • FAX (216) 281-5505

To All Local, State, Federal Agency Personnel and Other Visitors to ARC

ARC considers all information related to the ARC 5M Series Lamp Recycling System and components thereof to be proprietary information and trade secrets.

Please handle all information whether oral and/or written (including photographs) that is presented by ARC authorized personnel or which is collected during your visit and/or discussions as strictly ARC confidential and trade secrets.

Thank You,



Drew Koler  
Managing Member  
American Recycling Company (ARC)

Revised 11/20/01

**ENVIROMATRIX, INC.****Analytical Services & Environmental Consulting**7777 Wall Street  
Valley View, Ohio 44125  
216/524-0888  
Fax 216/524-2090Mr. Drew Koler  
American Recycling Co. LTD.  
P.O. Box # 27486  
Cleveland, Ohio 44127-0486

October 24, 2001

Dear Mr. Koler,

On September 28, 2001 EnviroMatrix Inc. ran several flash points for American Recycling Co. The samples were analyzed using a Boekel Industry, model # 152800, Pensky-Martens closed cup tester. As a matter of routine, EnviroMatrix Inc. analyzes a test mixture of Xylenes with an established flash point of 80°F (plus/minus 1 degree) (SW 846, Method 1010). On the above date, the recorded flash point of the QA/QC standard was 79°F. The thermometer used to measure these flash points was also recently calibrated against an NIST certified thermometer. Simultaneous readings in boiling water produced the following readings:

ASTM Thermometer	Flash Point Thermometer
210.7 °F	212 °F

These particular samples were expected to have a flash point between 130 °F and 150 °F. Each sample was removed from the refrigerator, shaken and poured into the testing cup. The samples were heated at approximately 10 °F per minute until the temperature reached 110 °F. During this heating period, the test flame was applied to the sample at 5 ° intervals. After the temperature reached 110 °F, the heater control was lowered to slow the rate of heating to approximately 5 ° per minute. The test flame was applied to the sample at 2 °F intervals from this point on until a flash was recorded. All samples were stirred during heating, with the stirring mechanism shut off during application of the test flame. The analyst performing these tests has over 10 years experience in the laboratory.

If you have any further questions regarding these results or the testing method employed, feel free to contact us at (216) 524-0888.

Sincerely,

  
Michael J. Baraona  
Laboratory Manager

8:30 - 4:00 PM Rec'd 11/29/01 (2)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039.

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>OH0000720110</b>		Manifest Document No. <b>01112</b>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address <b>American Recycling Company Drew Kolar 3203 W. 71st St. Cleveland, OH 44102</b>						A. State Manifest Document Number				
4. Generator's Phone ( <b>216</b> ) <b>281-2828</b>						B. State Generator's ID				
5. Transporter 1 Company Name <b>Lighting Resources, Inc.</b>			6. US EPA ID Number <b>INO000351387</b>			C. State Transporter's ID				
7. Transporter 2 Company Name			8. US EPA ID Number			D. Transporter's Phone <b>317-888-3889</b>				
9. Designated Facility Name and Site Address <b>Lighting Resources, Inc. 498 Park 800 Drive Greenwood, IN 46143</b>			10. US EPA ID Number <b>INO000351387</b>			E. State Transporter's ID				
						F. Transporter's Phone				
						G. State Facility's ID				
						H. Facility's Phone <b>317-888-3889</b>				
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers		13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
	a. <b>RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PGLII, (phosphor powder containing mercury)</b>					<b>0 1 0 D M</b>		<b>0 6 5 0 0</b>	<b>P</b>	<b>D009</b>
	b.									
	c.									
	d.									
J. Additional Descriptions for Materials Listed Above <b>11a. Drums of Calcium Phosphor Powder for Recycling</b>						K. Handling Codes for Wastes Listed Above <b>T-47 (recycling)</b>				
15. Special Handling Instructions and Additional Information <b>Chem-Tel 24HR Emergency Contact # 1-800-255-3924</b>										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.										
Printed/Typed Name <i>[Signature]</i>				Signature <i>[Signature]</i>			Month Day Year <b>11 11 01</b>			
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials									
	Printed/Typed Name <b>Bryan Key Driver for LRI</b>				Signature <i>[Signature]</i>			Month Day Year <b>11 11 01</b>		
	18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name				Signature			Month Day Year			
FACILITY	19. Discrepancy Indication Space									
	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name				Signature			Month Day Year			





WASTE MANAGEMENT DIVISION  
MICHIGAN DEPARTMENT OF  
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE

ATT.  DIS.  REJ.  PR.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

→ RA

Please print or type.

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. O H D 0 0 2 3 2 1 3 2 1		Manifest Document No. 2 1 0 0 0		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address AMERICAN RECYCLING COMPANY 6701 HUBBARD AVENUE CLEVELAND, OH 44127						A. State Manifest Document Number MI 8178999				
4. Generator's Phone ( 216 ) 281-2828						B. State Generator's ID				
5. Transporter 1 Company Name ENVIROSERVE, J.V.				6. US EPA ID Number O H D 9 8 7 0 5 0 5 6 4		C. State Transporter's ID				
7. Transporter 2 Company Name						D. Transporter's Phone (216) 642-1311				
9. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. (SITE #2) 49350 N I-94 DRIVE BELLVILLE, MI 48111						8. US EPA ID Number M I D 0 4 8 0 9 0 6 3 3		E. State Transporter's ID (000) 000-0000		
						F. Transporter's Phone				
						G. State Facility's ID				
						H. Facility's Phone (800) 592-5489				
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM RQ. WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, UN2315, PGII, (PCB Ballasts)						12. Containers No. Type		13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. X						010 DM		2,000	K	PCB5
b.										
c.										
d.										
J. Additional Descriptions for Materials Listed Above A: 1011011PBF ERG#171 (Attached EQ continuation sheet) B: C: D:						K. Handling Codes a. b. c. d.				
15. Special Handling Instructions and Additional Information 24 HOUR EMERGENCY CONTACT: 800-642-1311 (ENVIROSERVE)										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.										
Printed/Typed Name x Rich Hill						Signature Rich Hill		Date 11/01/2001		
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name GARY GREENAWALT		Signature Gary Greenawalt		Date 11/01/2001
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name		Signature		Date
19. Discrepancy Indication Space										
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						Printed/Typed Name		Signature		Date

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

GENERATOR

TRANSPORTER

FACILITY



WASTE MANAGEMENT DIVISION  
MICHIGAN DEPARTMENT OF  
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE  
ATT.  DIS.  REJ.  PR.

Required under authority of Part 111 and  
Part 121 of Act 461, 1994, as amended.

Failure to file may subject you to  
criminal and/or civil penalties under  
Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. OH D 0 0 2 3 2 1 3 2 1 2 1 0 0 3	Manifest Document No. 3	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address AMERICAN RECYCLING COMPANY 6701 HUBBARD AVENUE CLEVELAND, OH 44127			A. State Manifest Document Number MI 8178856		B. State Generator's ID	
4. Generator's Phone 216, 281-2828		6. US EPA ID Number OH D 9 8 7 0 5 0 5 6 4		C. State Transporter's ID		D. Transporter's Phone (216) 642-1311
5. Transporter 1 Company Name ENVIROSERVE, J.V.		8. US EPA ID Number		E. State Transporter's ID (000) 000-0000		F. Transporter's Phone
7. Transporter 2 Company Name		10. US EPA ID Number		G. State Facility's ID		H. Facility's Phone (800) 592-5469
9. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. (SITE #2) 49350 N I-94 DRIVE BELLVILLE, MI 48111						
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM a. X RQ, WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, UN2315, PGII, (PCB Ballasts)			12. Containers No. Type 010 D M 01700	13. Total Quantity	14. Unit Wt/Vol K	Waste No. PCB5
J. Additional Descriptions for Materials Listed Above 11a) 101101-PBF ERC-171			K. Handling Codes			
15. Special Handling Instructions and Additional Information 24 HOUR CONTACT # 1-800-642-1311 (EnviroServe)						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name Rich Hill		Signature Rich Hill		Date 12/17/01		
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name GREGORY RESNICK		Signature Greg Resnick		Date 12/17/01		
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Date		
19. Discrepancy Indication Space WAYNE OHIO						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name		Signature		Date		

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-252-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-9802 24 HOURS PER DAY.



WASTE MANAGEMENT DIVISION  
MICHIGAN DEPARTMENT OF  
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE

ATT.  DIS.  REJ.  PR.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12116 MCL.

Please print or type.

Form Approved OMB No. 2050-0039

**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. **OH D 0 0 2 3 2 1 3 2 1 2 1 0 0**  
Manifest Document No.

2. Page 1 of 1  
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address  
**AMERICAN RECYCLING COMPANY  
6701 HUBBARD AVENUE  
CLEVELAND, OH 44127**

A. State Manifest Document Number  
**MI 8278207**

4. Generator's Phone ( **216** ) **281-2828**

B. State Generator's ID

5. Transporter 1 Company Name  
**ENVIROSERVE, J.V.**

6. US EPA ID Number  
**OH D 9 8 7 0 5 0 5 6**

C. State Transporter's ID

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone  
**(216) 642-1311**

E. State Transporter's ID  
**(000) 000-0000**

F. Transporter's Phone

9. Designated Facility Name and Site Address  
**WAYNE DISPOSAL, INC. (SITE #2)  
49350 N I-94 DRIVE  
BELLVILLE, MI 48111**

10. US EPA ID Number  
**MI D 0 4 8 0 9 0 6 3 3**

G. State Facility's ID

H. Facility's Phone  
**(800) 592-5480**

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).  
HM

12. Containers No. Type  
13. Total Quantity  
14. Unit Wt/Vol  
15. Waste No.

a.	b.	c.	d.
X			

011	DM	02200	K	PCB5

J. Additional Descriptions for Materials Listed Above  
A: **1011011PBF ERG#171 (Attached EQ continuation sheet)**  
B:  
C:  
D:

K. Handling Codes

a
b
c
d

15. Special Handling Instructions and Additional Information  
**Del 11-16-01 0900 EQ-T  
24 HOUR EMERGENCY CONTACT: 800-642-1311 (ENVIROSERVE)**

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: **Rich Hill** Signature: *Rich Hill* Date: **11/19/01**

17. Transporter 1 Acknowledgement of Receipt of Materials  
Printed/Typed Name: **GREGORY RUSNICK** Signature: *Gregory Rusnick* Date: **11/19/01**

18. Transporter 2 Acknowledgement of Receipt of Materials  
Printed/Typed Name: Signature: Date:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  
Printed/Typed Name: Signature: Date:

CENTER AT 1-800-424-8802 24 HOURS PER DAY. GENERATOR FACILITY



State of Ohio Environmental Protection Agency

Northeast District Office

2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

# FAX Transmittal Sheet

To: Drew KOLBE

Fax Number: 216 281 5505

Subject: SAMPLE RESULTS FOR SOLVENTS

Drew - All 8 of our samples indicate all 8 drums of solvent are hazardous because of ignitability. It is our opinion all 8 drums should be managed as a haz waste.

From: Sherry Stone

Date: 11/29/01

Pages to Follow: 15  
(Include Cover Sheet)

If you have any questions, call (330) 963-1200, ask for sender  
Return Fax number (330)487-0769



**DLZ**  
LABORATORIES, INC.

ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES

RECEIVED  
OCT 09 2001  
OHIO EPA NEDO

October 4, 2001

Attention: Sherry Slone  
Ohio EPA - (NEDO)  
2110 East Aurora Road  
Twinsburg, OH 44087

RE: C110110

Dear Ms. Slone,

The procedures used to analyze environmental samples, specified on the enclosed analytical report comply with the USEPA method requirements. Sample identification, time and date of sample collection, and method of analysis are included on the analytical report. Enclosed is a copy of the Chain of Custody.

DLZ Laboratories, Inc., located in Columbus Ohio, follows strict QA/QC criteria for analytical testing. QA/QC documentation is retained by the laboratory for a period of ten years after completion of analysis. QA/QC reports are available to the client by request and is available for review at any time.

The following is a brief summary of QA/QC procedures at DLZ Laboratories, Inc.:

- Matrix spike and matrix spike duplicate analyses are performed at a rate of ten percent for inorganic analysis samples and at a rate of five percent for organic analysis sample by sample matrix. (Aqueous and solid samples are treated separately.)
- Method and analytical blanks are analyzed at a rate of at least one per batch of samples unless required more frequently by the method.
- An independent known standard is analyzed at a rate of at least one per batch of samples.
- In all cases, DLZ Laboratories, Inc. follows the QA/QC requirements as stated in "40 CFR" and all applicable methods, including "SW-846", "Standard Methods" etc...
- Specific exceptions to DLZ's QA/QC procedures are listed on the last page of the report.

Thank you for allowing DLZ Laboratories, Inc. to assist you in your analytical testing needs. Should you have any further questions, do not hesitate to call.

Sincerely,

*Michael H. Davis*

Michael H. Davis, Ph.D.

QC Coordinator



Client Name: OEPA (NEDO)  
Contact: Sherry Stone  
Address: 2110 East Aurora Road  
Twinsburg OH, 44087

Page: Page 1 of 13  
Project: ARC (Cuyahoga County)  
Project #: DNE 010918-HW  
Report Date: 10/04/01 08:40

Attached is our analytical report for the samples received for your project. Below is a list of your individual sample descriptions with our corresponding laboratory number. We also have enclosed a copy of the Chain of Custody that was received with your samples. Please note any unused portion of the samples may be discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department at the phone number below.

### Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
C110110-01	S-01	Other (W)	09/18/01 09:45	09/18/01 15:50
C110110-02	S-02	Other (W)	09/18/01 09:55	09/18/01 15:50
C110110-03	S-03	Other (W)	09/18/01 10:02	09/18/01 15:50
C110110-04	S-04	Other (W)	09/18/01 10:08	09/18/01 15:50
C110110-05	S-05	Other (W)	09/18/01 10:13	09/18/01 15:50
C110110-06	S-06	Other (W)	09/18/01 10:20	09/18/01 15:50
C110110-07	S-07	Other (W)	09/18/01 10:25	09/18/01 15:50
C110110-08	S-08	Other (W)	09/18/01 10:28	09/18/01 15:50



**DLZ**  
LABORATORIES, INC.

ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES

Client Name: OEPA (NEDO)  
Contact: Sherry Stone  
Address: 2110 East Aurora Road  
Twinsburg OH, 44087

Page: Page 2 of 13  
Project: ARC (Cuyahoga County)  
Project #: DNE 010918-HW  
Report Date: 10/04/01 08:40

Lab Sample #: C110110-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
S-01	Other (W)	09/18/01 09:45	09/18/01

<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
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**Physical Parameters by APHA/ASTM/EPA Methods**

Ignitability by Flashpoint	118	1	°F	EPA 1010	09/26/01 09:40	JRO	
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\*Reportable Detection Limit



# DLZ

LABORATORIES, INC.

ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES

Client Name: OEPA (NEDO)  
Contact: Sherry Slone  
Address: 2110 East Aurora Road  
Twinsburg OH, 44087

Page: Page 3 of 13  
Project: ARC (Cuyahoga County)  
Project #: DNE 010918-HW  
Report Date: 10/04/01 08:40

Lab Sample #: C110110-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
S-02	Other (W)	09/18/01 09:55	09/18/01

<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
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**Physical Parameters by APHA/ASTM/EPA Methods**

Ignitability by Flashpoint	82		1 °F	EPA 1010	10/01/01 08:26	JRO	
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\*Reportable Detection Limit



Client Name: OEPA (NEDO)  
 Contact: Sherry Stone  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

Page: Page 4 of 13  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010918-HW  
 Report Date: 10/04/01 08:40

Lab Sample #: C110110-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
S-03	Other (W)	09/18/01 10:02	09/18/01

<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
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**Physical Parameters by APHA/ASTM/EPA Methods**

Ignitability by Flashpoint	69		1 °F	EPA 1010	10/01/01 08:26	JRO	
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\*Reportable Detection Limit



Client Name: OEPA (NEDO)  
 Contact: Sherry Stone  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

Page: Page 5 of 13  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010918-HW  
 Report Date: 10/04/01 08:40

Lab Sample #: C110110-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
S-04	Other (W)	09/18/01 10:08	09/18/01

<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
<b>Physical Parameters by APHA/ASTM/EPA Methods</b>							
Ignitability by Flashpoint	76		1 °F	EPA 1010	10/01/01 08:26	JRO	

\*Reportable Detection Limit



Client Name: OEPA (NEDO)  
 Contact: Sherry Slone  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

Page: Page 6 of 13  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010918-HW  
 Report Date: 10/04/01 08:40

Lab Sample #: C110110-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
S-05	Other (W)	09/18/01 10:13	09/18/01

<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
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**Physical Parameters by APHA/ASTM/EPA Methods**

Ignitability by Flashpoint	121		1 °F	EPA 1010	10/02/01 08:30	JRO	
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\*Reportable Detection Limit



**DLZ**  
LABORATORIES, INC.

ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES

Client Name: OEPA (NEDO)  
Contact: Sherry Slone  
Address: 2110 East Aurora Road  
Twinsburg OH, 44087

Page: Page 7 of 13  
Project: ARC (Cuyahoga County)  
Project #: DNE 010918-HW  
Report Date: 10/04/01 08:40

Lab Sample #: C110110-06

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
S-06	Other (W)	09/18/01 10:20	09/18/01

<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
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**Physical Parameters by APHA/ASTM/EPA Methods**

Ignitability by Flashpoint	113		1 °F	EPA 1010	10/02/01 08:30	JRO	
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\*Reportable Detection Limit



Client Name: OEPA (NEDO)  
 Contact: Sherry Sione  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

Page: Page 8 of 13  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010918-HW  
 Report Date: 10/04/01 08:40

Lab Sample #: C110110-07

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
S-07	Other (W)	09/18/01 10:25	09/18/01

<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
<b>Physical Parameters by APHA/ASTM/EPA Methods</b>							
Ignitability by Flashpoint	129		1 °F	EPA 1010	10/03/01 08:27	JRO	

\*Reportable Detection Limit



Client Name: OEPA (NEDO)  
 Contact: Sherry Stone  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

Page: Page 9 of 13  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010918-HW  
 Report Date: 10/04/01 08:40

Lab Sample #: C110110-08

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
S-08	Other (W)	09/18/01 10:28	09/18/01

<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
<b>Physical Parameters by APHA/ASTM/EPA Methods</b>							
Ignitability by Flashpoint	124		1 °F	EPA 1010	10/03/01 08:27	JRO	

\*Reportable Detection Limit

Client Name: OEPA (NEDO)  
Contact: Sherry Slone  
Address: 2110 East Aurora Road  
Twinsburg OH, 44087

Page: Page 10 of 13  
Project: ARC (Cuyahoga County)  
Project #: DNE 010918-HW  
Report Date: 10/04/01 08:40

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CI12709 - General Preparation</b>										
<b>Blank (CI12709-BLK1)</b>				Prepared & Analyzed: 09/26/01						
Ignitability by Flashpoint	> 200	1	°F							FLSH
<b>Duplicate (CI12709-DUP1)</b>				Source: C110110-01 Prepared & Analyzed: 09/26/01						
Ignitability by Flashpoint	133	1	°F		118			12	20	
<b>Reference (CI12709-SRM1)</b>				Prepared & Analyzed: 09/26/01						
Ignitability by Flashpoint	78	1	°F	81		96	80-120			
<b>Reference (CI12709-SRM2)</b>				Prepared & Analyzed: 09/26/01						
Ignitability by Flashpoint	76	1	°F	81		94	80-120			
<b>Batch CJ10302 - General Preparation</b>										
<b>Blank (CJ10302-BLK1)</b>				Prepared & Analyzed: 10/01/01						
Ignitability by Flashpoint	> 200	1	°F							FLSH
<b>Duplicate (CJ10302-DUP1)</b>				Source: C110110-02 Prepared & Analyzed: 10/01/01						
Ignitability by Flashpoint	79	1	°F		82			4	20	
<b>Duplicate (CJ10302-DUP2)</b>				Source: C110110-03 Prepared & Analyzed: 10/01/01						
Ignitability by Flashpoint	73	1	°F		69			6	20	
<b>Duplicate (CJ10302-DUP3)</b>				Source: C110110-04 Prepared & Analyzed: 10/01/01						
Ignitability by Flashpoint	76	1	°F		76			0	20	
<b>Reference (CJ10302-SRM1)</b>				Prepared & Analyzed: 10/01/01						
Ignitability by Flashpoint	77	1	°F	81		95	80-120			

\*Reportable Detection Limit



# DLZ

LABORATORIES, INC.

ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES

Client Name: OEPA (NEDO)  
Contact: Sherry Sione  
Address: 2110 East Aurora Road  
Twinsburg OH, 44087

Page: Page 11 of 13  
Project: ARC (Cuyahoga County)  
Project #: DNE 010918-HW  
Report Date: 10/04/01 08:40

### Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CJ10302 - General Preparation</b>										
<b>Reference (CJ10302-SRM2)</b>				Prepared & Analyzed: 10/01/01						
Ignitability by Flashpoint	74	1	°F	81		91	80-120			
<b>Batch CJ10303 - General Preparation</b>										
<b>Blank (CJ10303-BLK1)</b>				Prepared & Analyzed: 10/02/01						
Ignitability by Flashpoint	> 200	1	°F							FLSH
<b>Duplicate (CJ10303-DUP1)</b>				Source: C110110-05		Prepared & Analyzed: 10/02/01				
Ignitability by Flashpoint	127	1	°F		121			5	20	
<b>Duplicate (CJ10303-DUP2)</b>				Source: C110110-06		Prepared & Analyzed: 10/02/01				
Ignitability by Flashpoint	95	1	°F		113			17	20	
<b>Reference (CJ10303-SRM1)</b>				Prepared & Analyzed: 10/02/01						
Ignitability by Flashpoint	76	1	°F	81		94	80-120			
<b>Reference (CJ10303-SRM2)</b>				Prepared & Analyzed: 10/02/01						
Ignitability by Flashpoint	75	1	°F	81		93	80-120			
<b>Batch CJ10401 - General Preparation</b>										
<b>Blank (CJ10401-BLK1)</b>				Prepared & Analyzed: 10/03/01						
Ignitability by Flashpoint	> 200	1	°F							FLSH
<b>Duplicate (CJ10401-DUP1)</b>				Source: C110110-07		Prepared & Analyzed: 10/03/01				
Ignitability by Flashpoint	132	1	°F		129			2	20	

\*Reportable Detection Limit



Client Name: OEPA (NEDO)  
 Contact: Sherry Slone  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

Page: Page 12 of 13  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010918-HW  
 Report Date: 10/04/01 08:40

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CJ10401 - General Preparation</b>										
<b>Duplicate (CJ10401-DUP2)</b>		<b>Source: C110110-08</b>			<b>Prepared &amp; Analyzed: 10/03/01</b>					
Ignitability by Flashpoint	109	1	°F		124			13	20	
<b>Duplicate (CJ10401-DUP3)</b>		<b>Source: C110123-01</b>			<b>Prepared &amp; Analyzed: 10/03/01</b>					
Ignitability by Flashpoint	73	1	°F		72			1	20	
<b>Reference (CJ10401-SRM1)</b>					<b>Prepared &amp; Analyzed: 10/03/01</b>					
Ignitability by Flashpoint	76	1	°F	81		94	80-120			
<b>Reference (CJ10401-SRM2)</b>					<b>Prepared &amp; Analyzed: 10/03/01</b>					
Ignitability by Flashpoint	74	1	°F	81		91	80-120			

\*Reportable Detection Limit



Client Name: OEPA (NEDO)  
Contact: Sherry Slone  
Address: 2110 East Aurora Road  
Twinsburg OH, 44087

Page: Page 13 of 13  
Project: ARC (Cuyahoga County)  
Project #: DNE 010918-HW  
Report Date: 10/04/01 08:40

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### Notes and Definitions

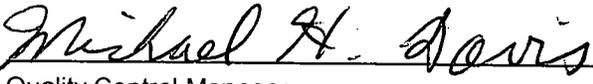
FLSH > 200  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

---

### Approval

Enclosed are the analytical results for the submitted sample(s). DLZ Laboratories certify the data presented as part of this report meets the minimum quality standards in the referenced analytical methods. Any exceptions have been noted. DLZ Laboratories, Inc. and its officers and employees assume no responsibility and make no warranty, express or implied, for uses or interpretations made by any recipients, intended or unintended, of this report.

  
\_\_\_\_\_  
Project Manager

  
\_\_\_\_\_  
Quality Control Manager

C1I0110

DLZ Laboratories - Columbus

Client: OEPA (NEDO)
Project: ARC (Cuyahoga County)

Project Manager: Deborah Griffiths
Project Number: DNE 010918-HW

Report To:
OEPA (NEDO)
Sherry Slone
2110 East Aurora Road
Twinsburg, OH 44087
Phone: (330) 963-1272
Fax: (330)487-0769

Handwritten signature and date 9/18

Invoice To:
Ohio EPA Division of Haz Waste
Eric Schultz
122 S. Front St
Columbus, OH 43215
Phone :(614) 644-2917
Fax: N/A

Date Due: 10/18/01 15:00 (22 day TAT)

Received By: David Chute

Date Received: 09/18/01 15:50

Logged In By: David Chute

Date Logged In: 09/18/01 16:03

Samples Received at: 4°C
All containers intact: Yes
Sample labels/COC agree: Yes
Samples Preserved Properly: Yes
Custody Seals Present: No
QALevel:
Report Level: ClientFinalQC.rpt
EDD Level:
InvoiceLevel:

Table with columns: Analysis, Due, TAT, Expires, Comments, Pricing. Contains 8 rows of sample analysis data (C1I0110-01 to C1I0110-08).

Reviewed By: [Signature]

Date: 9/19/01



\* \* \* COMMUNICATION RESULT REPORT ( OCT. 9.2001 1:42PM ) \* \* \*

FILE MODE	OPTION	ADDRESS (GROUP)	TTI OHIO EPA NEDO RESULT	PAGE
566	MEMORY TX	DHWM CO	OK	P. 16/16

REASON FOR ERROR

E-1) HANG UP OR LINE FAIL  
E-3) NO ANSWER

E-2) BUSY  
E-4) NO FACSIMILE CONNECTION



Post-it® Fax Note	7671	Date	10/09/01	# of pages	16
TO	RANDY OHLEMACHER	From	SHERRY SLONE		
Co./Dept.	CO - DHWM	Co.	O EPA - NEDO		
Phone #		Phone #	X226		
Fax #		Fax #			

RECEIVED  
OCT 09 2001  
OHIO EPA NEDO

October 4, 2001

Attention: Sherry Slone  
Ohio EPA - (NEDO)  
2110 East Aurora Road  
Twinsburg, OH 44087

RE: C110110

Dear Ms. Slone,

The procedures used to analyze environmental samples, specified on the enclosed analytical report comply with the USEPA method requirements. Sample identification, time and date of sample collection, and method of analysis are included on the analytical report. Enclosed is a copy of the Chain of Custody.

DLZ Laboratories, Inc., located in Columbus Ohio, follows strict QA/QC criteria for analytical testing. QA/QC documentation is retained by the laboratory for a period of ten years after completion of analysis. QA/QC reports are available to the client by request and is available for review at any time.

\* \* \* \* \* RESERVE REPORT ( OCT. 9.2001 1:35PM ) \* \* \* \* \*

TTI OHIO EPA NEDO

THIS FILE WAS NOT STORED DUE TO DOCUMENT MISFEED.

FILE	MODE	OPTION	ADDRESS (GROUP)	PAGE
565	MEMORY TX		DHWM CO	P. 1



Post-It® Fax Note 7671		Date: 10/09/01	# of pages: 16
To: RANDY ONLEMACHER	Co./Dept: CO - DHWM	From: SHERRY SLONE	Co: OEPA - NEDO
Phone #	Fax #	Phone #	Fax #
		X2216	

RECEIVED  
OCT 09 2001  
OHIO EPA NEDO

October 4, 2001

Attention: Sherry Slone  
Ohio EPA - (NEDO)  
2110 East Aurora Road  
Twinsburg, OH 44087

RE: C110110

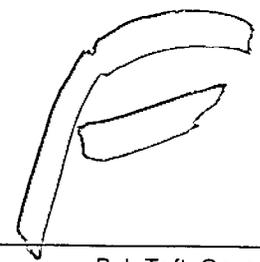
Dear Ms. Slone,

The procedures used to analyze environmental samples, specified on the enclosed analytical report comply with the USEPA method requirements. Sample identification, time and date of sample collection, and method of analysis are included on the analytical report. Enclosed is a copy of the Chain of Custody.

DLZ Laboratories, Inc., located in Columbus Ohio, follows strict QA/QC criteria for analytical testing. QA/QC documentation is retained by the laboratory for a period of ten years after completion of analysis. QA/QC reports are available to the client by request and is available for review at any time.



State of Ohio Environmental Protection Agency  
Northeast District Office



2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

November 21, 2001

Re: **American Recycling Co., LTD.**  
**OHD000720110**  
**Cuyahoga County**

**Certified Mail**

Mr. Drew Koler  
American Recycling Co., LTD.  
P.O. Box #27486  
Cleveland, Ohio 44127-0486

Dear Mr. Koler:

This letter is written to respond to your letter dated October 24, 2001, and to follow-up our meeting on October 25, 2001, at the northeast district office (NEDO) of Ohio EPA. Present at the meeting representing ARC were you and Phillip Schillawski of Squire Sanders. Representing Ohio EPA were Marcus Glasgow of the Office of the Ohio Attorney General, Randy Ohlemacher of the Inspection Support Unit, Jeanette Smith of the Enforcement Unit, and myself of the NEDO.

You reviewed your lamp recycling process for us. Intact fluorescent tubes are fed into the process equipment from an elevated platform. Mercury contaminated phosphor powder drops out via a hose into a drum. Big pieces of glass, filaments and end caps drop out into a large open cardboard box. Sand size pieces of glass, called sand or screener fines, come out in another box that has hand holes in it and then this stream is placed in drums. There is an exterior exhaust from the system. The exhaust passes through a high efficiency filter, which is periodically cleaned by a back flow process, and then the exhaust passes through carbon filters, which have never been changed. Then the exhaust exits to the outside of the building through the back wall.

You indicated the scrap metal is being sold to recyclers for reuse. You are paying Strategic Materials to take the larger pieces of glass. They are using them to make fiberglass insulation. The mercury contaminated powder is now being managed as a hazardous waste after reprocessing. About one drum per month of the powder continues to be generated. All accumulated and currently generated drums of mercury contaminated powder will be properly removed using hazardous waste manifests by the end of December 2001.

In the past, and you proposed to continue in your October 24, 2001 letter, to mix the screener fines with the larger pieces of glass going to Strategic Materials. About one drum of screener fines has been mixed into the middle of each gaylord of larger glass. This is about a nine to one ratio. Our sampling results from June 28, 2001, determined the screener fines are hazardous for mercury. You indicated Strategic Materials would probably not accept this stream separately. It appears mixing the screener fines in with the

Mr. Drew Koler  
American Recycling Co., LTD.  
November 21, 2001  
Page 2

larger pieces of glass is not legitimate recycling but rather a way to dispose of a hazardous waste. **We asked that you suspend this practice until you could demonstrate its legitimacy.** We provided you with a copy of a USEPA memo dated April 26, 1989 discussing legitimate recycling.

Our sample results show that the screener fines are characteristically hazardous and silica is not. You indicated you are paying Strategic Materials to take your screener fines indicating they have less economic value than silica. Also you indicated more of your revenue comes from charging generators to take their lamps rather than from selling the secondary materials from your process. We know the toxic constituent in the phosphor powder, mercury, is not necessary to the production of insulation but is merely "along for the ride". You stated Strategic Materials probably would not take the screener fines by themselves indicating these are not valued as a replacement for silica.

If you would like us to consider the legitimacy of this practice further, please answer the following questions:

1. How similar are the screener fines to the raw material, silica, they are replacing?
2. Are the screener fines as effective as silica in the production of fiberglass insulation?
3. Are the screener fines fed directly into the process of making the insulation or do they need to be processed in any way first?
4. Are the screener fines a recognized commodity?
5. Are there industry-recognized quality specifications for screener fines or the silica?
6. How does Strategic Materials manage the screener fines?
7. Does Strategic Materials have any history of mismanaging hazardous wastes?
8. Does Strategic Materials keep records of the screener fines received and how when they are used?

We also discussed your practice of reprocessing the powder back through your system. In March you told us you had 74 drums of phosphor powder. In June we observed 60 drums of powder. In September the total number of powder drums was 46 with 14 of those being reprocessed. You stated that currently you have 42 drums of powder with 15 of those being reprocessed. You explained this large reduction is a result of reprocessing and that a 4 to 1 reduction in the powder was common. You agreed to feed through powder, at a mutually agreed to time and day, so that we could observe the output of this reprocessing.

Please provide us with any manufacturer's product specifications or maintenance recommendations of the high efficiency and carbon filters within 30 days of the date of this letter.

Mr. Drew Koler  
American Recycling Co., LTD.  
November 21, 2001  
Page 3

You committed to disposing of all eight spent solvent drums as hazardous waste at Safety Kleen PPM by the end of December 2001. Please be advised they should be managed as PCB wastes as well. Our sample results from June 2001 found that all of the drums of solvent sampled contained PCB's at greater than 50 ppm.

Further, you committed to removing the remaining 22 drums of ballast wastes from your former location at Hubbard Ave. by the end of December 2001 and to remove 10 drums per month of PCB ballast wastes from your current site until all of them have been removed. We will forward this information to USEPA for their follow-up.

Please submit copies of all hazardous waste manifests for all wastes sent off-site within 7 days of those wastes being shipped.

Again as emphasized in our meeting, we are expecting complete cooperation in resolving the above issues expeditiously. If you should have any questions related to this letter, please feel free to contact me at (330) 963-1226.

Sincerely,

 (DW)

Sheryl K. Slone, P.E.  
Environmental Engineer  
Division of Hazardous Waste Management

SKS:cl

cc: Natalie Oryshkewych, NEDO, DHWM      Kenneth Zolnierczyk, USEPA Region V  
Linda Neumann, CO, DHWM                  Marcus Glasgow, AGO  
Randy Ohlemacher, CAS, DHWM              Greg Poulos, AGO  
Jeanette Smith, CAS, DHWM

**NOTICE:**

**Ohio EPA's failure to list specific deficiencies or violations in this letter does not relieve your company from having to comply with all applicable regulations.**



State of Ohio Environmental Protection Agency

FILE ↓

**STREET ADDRESS:**

Lazarus Government Center  
122 S. Front Street  
Columbus, OH 43215-1099

TELE: (614) 644-3020 FAX: (614) 644-2329

**MAILING ADDRESS:**

P.O. Box 1049  
Columbus, OH 43216-1049

**INTER-OFFICE COMMUNICATION**

**TO:** Donna Waggoner, Supervisor, Fiscal Administration  
**FROM:** <sup>HES</sup> Harry Sarvis, Enforcement Coordinator, Division of Hazardous Waste Management  
**SUBJECT:** *Request for Ability-to-Pay Analysis for American Recycling Company*  
**DATE:** November 6, 2001

This memo is written to request the assistance of your Economist Section in the review of financial documents submitted by American Recycling Company (ARC) which is the subject of an ongoing enforcement action for violations of the state's hazardous waste laws. DHWM is currently concerned with ARC's ability to finance the proper disposal of numerous containers of hazardous waste stored at the facility.

ARC has told us that they are a struggling company and may be unable to pay for the hazardous waste disposal. DHWM has estimated the disposal cost to be approximately \$22,000. Please review the financial information submitted to determine if American Recycling Company is capable of paying for the disposal of the hazardous waste. If ARC cannot pay the disposal, please assess the maximum amount that they are capable of paying.

Please provide a written evaluation of the requested ability to pay at your earliest convenience. If you are unable to evaluate the information by November 21, 2001, please contact Jeanette Smith of my staff at 4-2973.

Due to the confidential nature of the attached financial documents, I request that they not be copied and that they be returned to Jeanette Smith once the review is complete.

Thank you for your assistance. As always, if I can provide any additional information related to this matter, please let me know.

G:\USERS\JSMITH\Abl2payARC110201.wpd

**Attachments**

cc w/o attachments: Marcus Glasgow, AGO, EES  
Sherry Slone, DHWM, NEDO

Bob Taft, Governor  
Maureen O'Connor, Lieutenant Governor  
Christopher Jones, Director

**RECEIVED**

NOV 08 2001

**OHIO EPA NEDO**



P.O. Box #27486 • Cleveland, OH 44127-0486  
 Phone: (216) 281-9200 • FAX (216) 281-5505

October 24, 2001

Ms. Sheryl K. Slone  
 Ohio EPA – Northeast District Office  
 Division of Hazardous Waste Management  
 2110 E. Aurora Road  
 Twinsburg, OH 44087-1969

Via Fax No. 330-487-0769

Page 1 of 7

Dear Ms. Slone:

We are proposing the following plan to address the violations noted in your letter dated August 15, 2001:

- 1.) We currently have 15 total drums of finished Hg phosphor powder that are from ARC reprocessing some of our intermediate lamp glass/phosphor powder mixture drums and new lamp recycling since January 2001.  
 We had Lighting Resources-Greenwood, IN pick up 2 drums of the finished Hg phosphor powder and 1 five-gallon pail of liquid Hg articles for retorting on October 11<sup>th</sup> (See enclosed Manifest Document No. 44102).  
 We propose to have Lighting Resources pick up 10 more drums of finished Hg phosphor powder in November at \$350.00 per drum plus \$150.00 for transportation. We propose to remove the remaining 5 drums plus any additional processed final phosphor powder drums at \$375.00 per drum plus \$150.00 for transportation in December.  
 Total November/December final Hg phosphor powder drum reclaim/retort costs based on 15 drums is \$5,675.00.  
 We have 27 drums of the original 74 intermediate lamp glass/phosphor powder drums that you observed on June 28<sup>th</sup> to reprocess at ARC.  
 We propose to remove future final Hg phosphor powder drums via Lighting Resources or other appropriate reclaim/retort facility following applicable reclamation rules found in OAC Section 3745-51.
- 2.) We currently have 14 drums of the original 68 drums of screener fines/sand that you observed on June 28<sup>th</sup>. This material comes from the same screening process as the majority of our bulk recycled lamp larger glass pieces. We do not consider this material to be a separate recycling process stream; it is just smaller glass pieces of the same recycled lamp material. Typically we bulk mix this material with the larger recycled lamp glass pieces in a 8-10 larger glass screener material to 1 screener fines/sand material volume equivalent ratio before we ship it to Strategic Materials for reclamation into fiberglass building insulation. Our current cost to transport and reclaim this material at Strategic Materials is around \$30.00 per ton.

- 2.) cont.: We plan on bulk shipping the remaining 14 drums of screener fines glass material with the next regularly scheduled shipment to Strategic Materials sometime in November. I have enclosed some previous and recent test results showing this reclaimed material is non-hazardous (See EnviroMatrix report dated 2/8/01 for the screener fines/sand test results and report dated 10/15/01 for the recycled glass pieces/screener fines bulk mixture test results).  
We propose to periodically sample/test this reclaimed material if we make any significant changes to our lamp recycling equipment or process parameters.
- 3.) We propose to have Safety-Kleen PPM-Twinsburg, OH remove the 8 drums of spent cleaning solvent in December. The cost to ARC is \$150.00 per drum plus \$350.00 for transportation, with total ARC cost of \$1,550.00.  
Please see the enclosed EnviroMatrix test report dated 10/1/01 for the samples we split with the Ohio EPA on September 18<sup>th</sup> that show 6 of the 8 solvent drums were non-hazardous for flash point/ignitability (D001).

We want to share the following proposed plan for the PCB and Non-PCB light ballast and recycled ballast parts drums at the former ARC location on Hubbard Avenue and at our current West 71<sup>st</sup> Street location even though they were not part of the Ohio EPA August 15<sup>th</sup> letter:

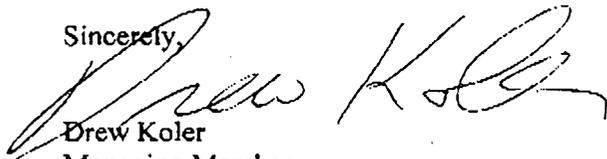
- 1.) There are currently 22 drums of PCB/Non-PCB recycled light ballast parts at the former Hubbard Avenue location.  
We propose to have EnviroServe, J.V.-Cleveland, OH remove 11 ballast drums in November and 11 drums in December at \$110.00 per drum with total ARC cost of \$2,420.00.
- 2.) We propose to have EnviroServe remove 10 drums per month of the 300+ PCB light ballast drums at the current ARC location on West 71<sup>st</sup> Street starting in January 2002. ARC cost at \$110.00 drum is \$1,100.00 per month.

Please note that any significant changes in the ARC costs above or the ARC overall financial condition could impact the ARC plan proposal.  
We may be able to expedite the ballast drum removal at the ARC current location if/when ARC closes on a lamp recycling system sale in South America.

We trust you will find the ARC plan proposal acceptable considering the poor financial condition of ARC as demonstrated via copies of the ARC 1996-2000 U.S. Partnership tax returns.

Please call me at 216-281-2828 with any questions you may have.

Sincerely,



Drew Koler  
Managing Member  
American Recycling Company, Ltd. (ARC)

Enclosures

Cc: Frank Maresh, Daryl Marttala, Tom Weber – ARC; Geoff Barnes - SSD



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039.

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>OH D 0,0 0 7 2 0 1 1 0</b>	Manifest Document No. <b>4 4 1 0 2</b>	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address <b>American Recycling Company Drew Koler 3203 W. 71st St. Cleveland, OH 44102</b>				A. State Manifest Document Number				
4. Generator's Phone ( <b>216</b> ) <b>281-2828</b>				B. State Generator's ID				
5. Transporter 1 Company Name <b>Lighting Resources, Inc.</b>		6. US EPA ID Number <b>INO 0 0 0 3 5 1 3 8 7</b>		C. State Transporter's ID				
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone <b>317-888-3889</b>				
9. Designated Facility Name and Site Address <b>Lighting Resources, Inc. 498 Park 800 Drive Greenwood, IN 46143</b>		10. US EPA ID Number <b>INO 0 0 0 3 5 1 3 8 7</b>		E. State Transporter's ID				
				F. Transporter's Phone				
				G. State Facility's ID				
				H. Facility's Phone <b>317-888-3889</b>				
GENERATOR	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Containers	13. Total	14. Unit	15. Waste No.	
				No.	Quantity	Wt/Vol		
	a.	<b>RQ, Hazardous Waste Solid, N.O.S., 9, NA3077, PGIII (mercury) (phosphor Powder)</b>		<b>0 0 2</b>	<b>DM</b>	<b>1200</b>	<b>P</b>	<b>D009</b>
	b.	<i>1 56 gallon liquid mercury</i>		<i>0 0 2</i>	<i>B</i>	<i>18</i>	<i>P</i>	<i>D009</i>
	c.	<i>/ / / / /</i>						
d.	<i>/ / / / /</i>							
J. Additional Descriptions for Materials Listed Above <b>11a. Calcium Phosphate Powder for Recycling</b>				K. Handling Codes for Wastes Listed Above <b>T-47. (recycling &amp; rebot).</b>				
15. Special Handling Instructions and Additional Information <b>Chem-Tel 24 HR Emergency # 1-800-255-3924</b>								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.								
Printed/Typed Name <b>David Bickley</b>			Signature <i>David Bickley</i>			Month Day Year <b>10/1/01</b>		
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials							
	Printed/Typed Name <b>Ron Roller Driver for LRI</b>			Signature <i>Ron Roller</i>			Month Day Year <b>10/1/01</b>	
	18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name			Signature			Month Day Year		
19. Discrepancy Indication Space								
FACILITY	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.							
	Printed/Typed Name <b>RANDALL SLENKER</b>			Signature <i>Randall Slenker</i>			Month Day Year <b>10/1/01</b>	



# ENVIROMATRIX, INC.

## Analytical Services & Environmental Consulting

7777 Wall Street  
Valley View, Ohio 44125  
216/524-0888  
Fax 216/524-2090

Date Received: 2/5/01  
Date Reported: 2/8/01

Client Sample I.D.: Glass Sample

American Recycling Co. Ltd  
PO Box #27486  
Cleveland, Ohio 44127-0486  
Attn. Dan

EMX Sample I.D.: B0105-2  
Sampled by: Client  
P.O. #: \_\_\_\_\_  
Sample Description: Clear and Amber  
Ground Glass

TCLP Extraction SW 846 method 1311

Extraction Start Date 2/5/01 by ACG  
End Date 2/6/01 by ACG

SW-846; Method 6020 (Analyzed 2/8/01 by ACG )  
\*Method 7471 (Analyzed 2/8/01 by ACG)

	Results TCLP 1311 mg/L	Detection Limit mg/L	Standard Recovery %	Regulatory Limit mg/L
Arsenic	<2.0	0.01	88	5.0
Barium	2.10	0.01	102	100.0
Cadmium	<0.01	0.01	99	1.0
Chromium	<2.0	0.01	99	5.0
Lead	0.18	0.01	111	5.0
Mercury	0.08	0.01	91	0.2
Selenium	<2.0	0.01	116	1.0
Silver	<0.01	0.01	108	5.0

  
Michael J. Baraona  
LABORATORY MANAGER

# ENVIROMATRIX, INC.

## Analytical Services & Environmental Consulting

7777 Wall Street  
Valley View, Ohio 44125  
216/524-0888  
Fax 216/524-2090

Date Received: 10/9/01  
Date Reported: 10/15/01

Client Sample I.D.: See text of this report

American Recycling Company, LTD.  
PO Box #27488  
Cleveland, Ohio 44127-0488  
Mr. Drew Koler

EMX Sample I.D.: L0109-6,-7  
Sampled by: Client  
P.O. #: \_\_\_\_\_  
Sample Description: See text of this report

Client I.D. ARC-001, 10/3/01; EMX I.D. L0109-6, White soild flakes, glass

TCLP Extraction SW 846 method 1311

Extraction Start Date 10/11/01 (MJB)  
End Date 10/12/01 (MJB)

\*Method 7471 (Analyzed 10/15/01 by ACG)

	Results TCLP 1311 <u>mg/L</u>	Detection Limit <u>mg/L</u>	Standard Recovery <u>%</u>	Regulatory Limit <u>mg/L</u>
Mercury*	0.16	0.01	75	0.2

Client I.D. ARC-002, 10/3/01; EMX I.D. L0109-7, White soild flakes, glass

TCLP Extraction SW 846 method 1311

Extraction Start Date 10/11/01 (MJB)  
End Date 10/12/01 (MJB)

\*Method 7471 (Analyzed 10/15/01 by ACG)

	Results TCLP 1311 <u>mg/L</u>	Detection Limit <u>mg/L</u>	Standard Recovery <u>%</u>	Regulatory Limit <u>mg/L</u>
Mercury*	0.11	0.01	75	0.2

Michael J Baraona  
LABORATORY MANAGER

# Memo

To: File  
From: Sherry Slone <sup>4/1</sup>  
Date: September 18, 2001  
Subject: ARC - Split Sampling of Solvent Drums

*Present were Drew Koler and Dan Bickley of ARC, Bob Haddad of EnviroMatrix, and Randy Ohlemacher and Sherry Slone of Ohio EPA*

On September 18, 2001, Randy Ohlemacher and I met Bob Haddad at American Recycling Company to observe his sampling of the 8 solvent drums and split samples with him. Bob was hired by ARC to sample their solvent drums.

## 9:30

Arrived at the facility and let Drew know we were there. Bob arrived about 9:35 and we prepared for sampling. Randy donned his air purifying respirator, a coated disposable coverall, and two pairs of nitrile gloves. He changed his outer gloves after obtaining a sample from each drum. Bob wore a coated disposable coverall and one pair of latex gloves. He changed his gloves after sampling each drum. Dan observed the sampling. Sherry observed the sampling, labeled jars, took notes and took photographs. Drew stated all of the bungs had been loosened the day before on the solvent drums.

All samples were taken by inserting a coliwasa into the drum through the bung to the bottom of the drum, allowing the coliwasa to fill, removing it and emptying it into a plastic sample container for ARC and then repeating this procedure and emptying it into a glass sample container for Ohio EPA. Bob put his samples in a cooler with blue ice. We put our samples inside a zip lock bag and then into a cooler with ice.

## 9:45

S-01 collected by BH.

## 9:55

S-02 collected by BH.

## 10:02

S-03 collected by BH.

## 10:08

S-04 collected by BH. This drum was only about half full so two insertions of the coliwasa were required for each sample.

**10:13**

S-05 collected by BH.

**10:20**

S-06 collected by BH.

**10:25**

S-07 collected by BH. This drum was about 40% full so two insertions of the coliwasa were required for each sample.

**10:28**

S-08 collected by BH.

Bob Haddad left about 10:45. He was taking his samples to analyze in his laboratory for flash point and PCB's. Randy took our samples under a chain of custody to DLZ labs to be analyzed for flash point.

Randy and I talked with Dan about the other drums, took an inventory and pictures.

**Solvent Drum Inventory**

**S-01** black full metal drum, labeled "solvent"

**S-02** black full metal drum, labeled "solvent"

**S-03** black full metal drum, labeled "solvent"

**S-04** black half full metal drum, PCB label, HW label, "waste combustible liquid, D001, 8/17/01"

**S-05** red full metal drum, PCB label, HW label, "waste combustible liquid, D001, 8/17/01"

**S-06** red full metal drum, ARC label, "spent solvent, 1/9/98"

**S-07** red 40% full metal drum, ARC label, "spent solvent, 1/9/98"

**S-08** red full metal drum, PCB label, ARC label, "spent solvent, 1/9/98"

Dan indicated many of the previous 60 phosphor powder drums had been reprocessed to remove more of the glass. There were 32 drums of phosphor powder that had not yet been reprocessed, 14 drums of reprocessed powder and 14 drums of sand/fines. Dan indicated that for every four drums of phosphor powder reprocessed, one drum of phosphor powder and about ½ drum of glass is generated. About one drum per day of phosphor powder is being reprocessed. ARC has been applying hazardous waste labels to the drums of powder after they have been reprocessed. Also they applied HW labels to all of the drums of fines. These labels read "HW solids, D009, 8/17/01". Dan said they were collecting glass in the bottom of a gaylord, then adding a drum of sand/fines in the middle, and then filling the gaylord the rest of the way with glass. He said they stopped doing this after they received my 8/15/01 NOV and have not sent any fines off since.

**Phosphor Powder Drum Inventory**

The phosphor powder drums remaining include P-03, 04, 05, 06, 07, 08, 09, 11, 12, 13, 14, 15, 16, 22, 31, 34, 36, 37, 38, 39, 44, 45, 46, 47, 48, 49, 50, 51, 54, 55, 56, and 57.

**Reprocessed Phosphor Powder Drum Inventory**

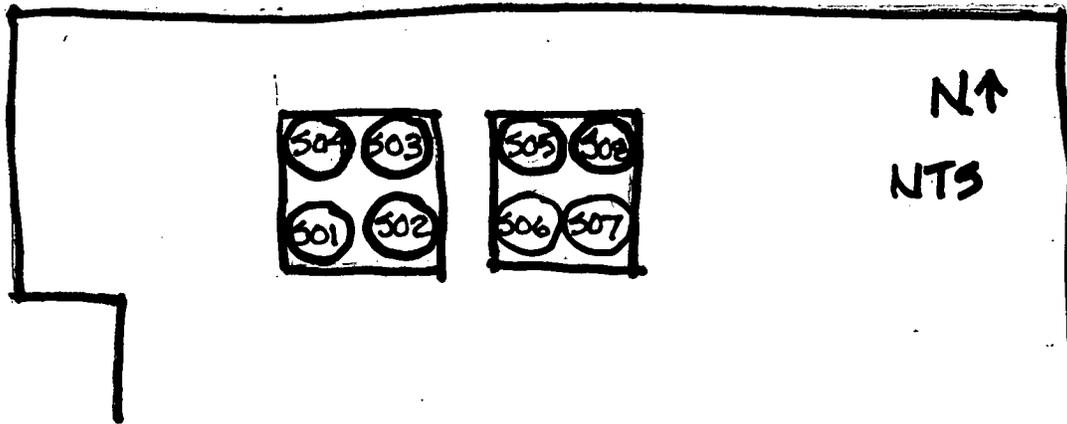
Reprocessed phosphor powder drums totaled 14 and are located on the attached map.

**P-17** HW label, "8/17/01, D009, hazardous waste solids", ARC label, "phosphor powder"  
**P-18** HW label, "8/17/01, D009, hazardous waste solids", ARC label, "phosphor powder, 5/21/01"  
**R-01** HW label, "8/17/01, D009, hazardous waste solids", ARC label, "phosphor powder, 5/21/01-7/3/01"  
**R-02** HW label, "8/17/01, D009, hazardous waste solids", ARC label, "phosphor powder, 7/23/01-8/20/01"  
**R-06** HW label, "8/17/01, D009, hazardous waste solids", ARC label, "phosphor powder, 8/30/01-9/2/01"  
**R-05** HW label, "8/17/01, D009, hazardous waste solids", ARC label, "phosphor powder, 8/27/01-8/27/01"  
**R-09** HW label, "8/17/01, D009, hazardous waste solids", ARC label, "phosphor powder, 9/6/01-9/11/01"  
**P-60** HW label, "8/17/01, D009, hazardous waste solids", ARC label, "powder"  
**R-03** HW label, "8/17/01, D009, hazardous waste solids", ARC label, "phosphor powder, 7/3/01-7/23/01"  
**R-04** HW label, "8/17/01, D009, hazardous waste solids", ARC label, "phosphor powder, 7/3/01-7/23/01"  
**R-07** HW label, "8/17/01, D009, hazardous waste solids", ARC label, "phosphor powder, 8/27/01-8/???"  
**R-08** HW label, "8/17/01, D009, hazardous waste solids", ARC label, "Screen fines, 2/19/98 start, 4/28/98 end"

#### **Fines/Sand Drum Inventory**

**F-01** HW label, "8/17/01, D009, hazardous waste solids", ARC label, "screening fines, 12/10/98"  
**F-02** HW label, "8/17/01, D009, hazardous waste solids", ARC label, "screening fines, 9/11/98"  
**F-03** HW label, "8/17/01, D009, hazardous waste solids"  
**F-04** HW label, "8/17/01, D009, hazardous waste solids"  
**F-05** HW label, "8/17/01, D009, hazardous waste solids", ARC label, "screener fines, start 8/4/97, end 8/12/97"  
**F-06** HW label, "8/17/01, D009, hazardous waste solids"  
**F-07** HW label, "8/17/01, D009, hazardous waste solids", ARC label, "screening fines, 10/5/98"  
**F-08** HW label, "8/17/01, D009, hazardous waste solids", ARC label, "screening fines, 2/19/98 start, 4/28/98 end"  
**F-09** HW label, "8/17/01, D009, hazardous waste solids", ARC label, "screening fines, start 12/3/97, end 2/19/98"  
**F-10** HW label, "8/17/01, D009, hazardous waste solids", no ARC label on the side of the drum  
**F-11** HW label, "8/17/01, D009, hazardous waste solids", no ARC label on the side of the drum  
**F-12** HW label, "8/17/01, D009, hazardous waste solids", no ARC label on the side of the drum, ARC label on the top of the drum but couldn't see all of it  
**F-13** HW label, "8/17/01, D009, hazardous waste solids", no ARC label on the side of the drum  
**F-14** HW label, "8/17/01, D009, hazardous waste solids", ARC label was partially scratched off

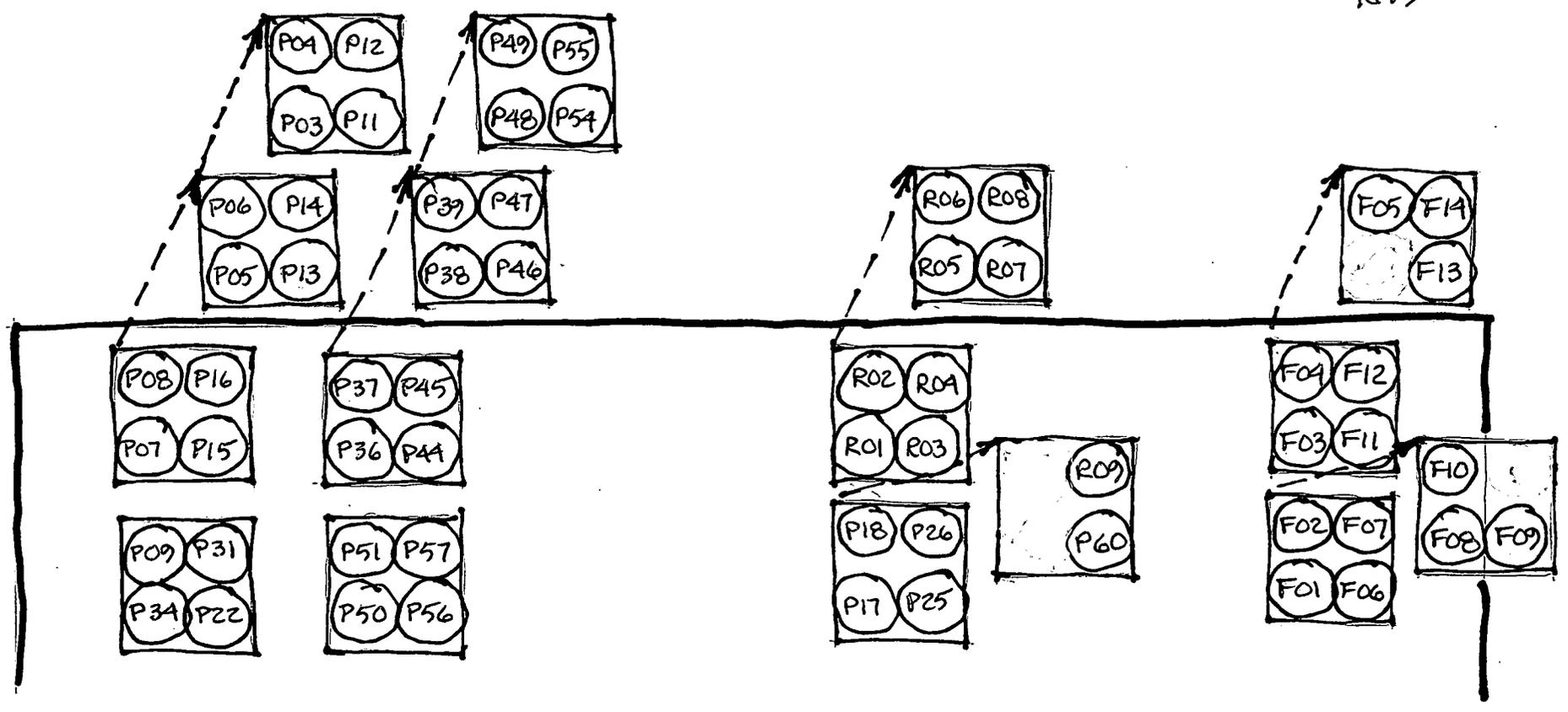
We talked with Drew before we left. He said they are considering using Lighting and Resources, a retort facility, in Indiana. Their phone number is 317-888-3889. The glass is still going to Strategic Materials. Randy advised Drew to keep the drums we numbered in July even if they are empty for accountability purposes. I told Drew that I was working with our Central Office staff to set up a meeting with them.



SOLVENT DRUMS @  
AMERICAN RECYCLING CO.

9/18/01

N →  
NTS



PHOSPHOR POWDER

RE-PROCESSED

FINES/SAND

AMERICAN RECYCLING CO.

9/18/01

**American Recycling Company**  
**Photo Log - 9/18/01**

\* Photos taken by Sherry Slone with a Sony Digital Camera

**Diskette #1**

- #1 - Bob Haddad sampling solvent drum S01
- #2 - " S02
- #3 - " S03
- #4 - " S04
- #5 - " S05
- #6 - " S05
- #7 - " S06
- #8 - " S07
- #9 - " S08
- #10 - " S08
- #11 - After sampling completed, solvent drums S01 and S02
- #12 - solvent drum S04 with PCB and HW labels
- #13 - solvent drums S03 and S04
- #14 - solvent drum S05 with PCB and HW labels
- #15 - "
- #16 - solvent drum S08 with PCB and ARC labels
- #17 - "
- #18 - solvent drum S08 with HW label
- #19 - solvent drum S07
- #20 - solvent drum S07 with ARC label
- #21 - solvent drum S06 with ARC label
- #22 - fourteen drums of fines/sand, HW labels have been added
- #23 - fourteen drums of reprocessed phosphor powder with HW labels
- #24 - thirty-two drums of phosphor powder
- #25 - drums of reprocessed phosphor powder
- #26 - Close-up of label on reprocessed powder container
- #27 - "
- #28 - Drums P17 and P18 of reprocessed phosphor powder
- #29 - Drums P50 and P56 of phosphor powder, ARC label
- #30 - Drum P56, ARC label, "phosphor powder 4/99"
- #31 - ARC label, "screening fines 12/10/98"
- #32 - "

#1



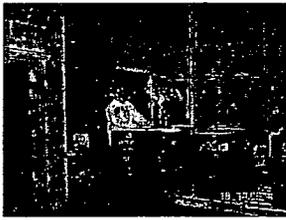
#2



#3



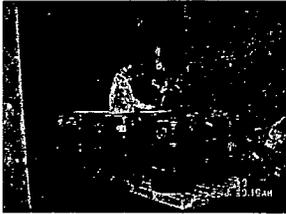
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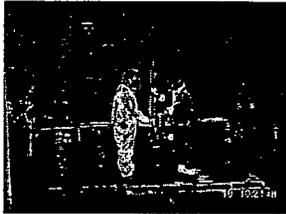
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#6



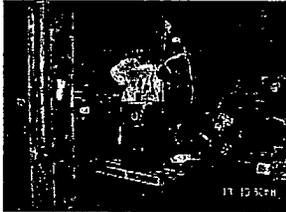
#7



#8



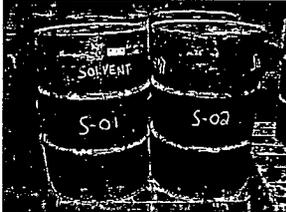
#9



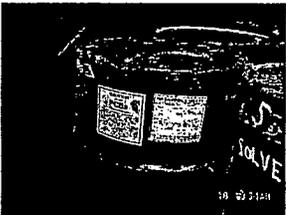
#10



#11



#12



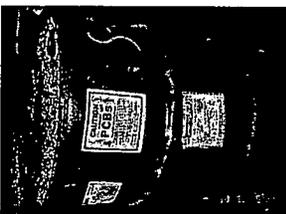
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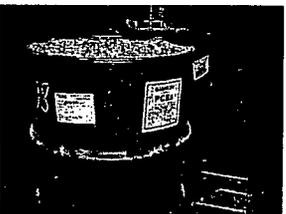
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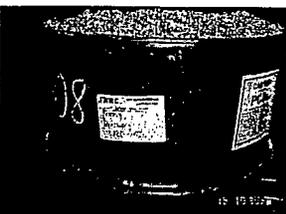
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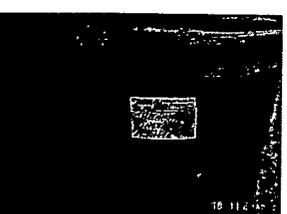
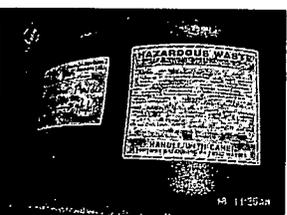
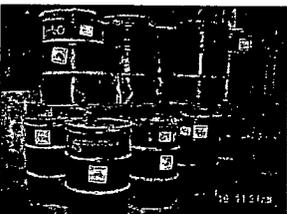
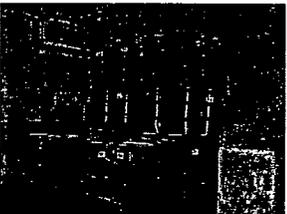
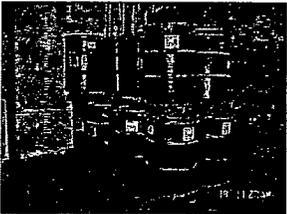
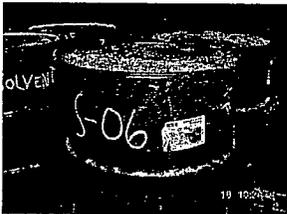
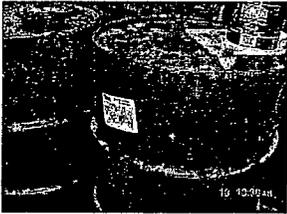
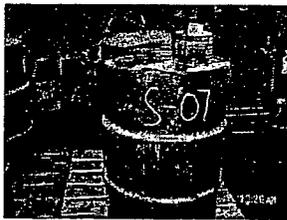
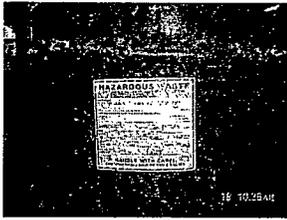


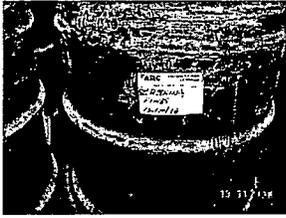
#16



#17









**AMERICAN RECYCLING  
COMPANY, LTD.**

P.O. Box #27486 • Cleveland, OH 44127-0486  
Phone: (216) 281-9200 • FAX (216) 281-5505

September 12, 2001

Ms. Sheryl Slone  
Division of Hazardous Waste Management  
Ohio EPA – Northeast District Office  
2110 E. Aurora Road  
Twinsburg, OH 44087-1969

Via Fax No. 330-487-0769

Dear Ms. Slone:

After careful review of your letter dated August 15, 2001 we have developed what we consider is a viable response plan based on ARC available current and potential future resources.

We are requesting a meeting with you and other appropriate officials at the Ohio EPA Central Office in Columbus to review our response plan with you at your earliest convenience.

We trust you will view our response plan timely understanding the recent tragic terrorist attacks on the U.S. that have temporarily diverted our focus on this important matter.

Please call me at 216-281-2828 or 216-281-9200 with any questions.

Sincerely,

Drew Koler  
Managing Member  
American Recycling Co., Ltd. (ARC)

Cc: Craig Butler-OEPA, CO Via Fax No. 614-644-3184  
Randy Ohlemacher-OEPA, CAS Via Fax No. 614-728-1245  
Tom Weber-ARC Via Fax No. 216-696-6831  
Geoff Barnes-SSD Via Fax No. 216-479-8776

**ARC** AMERICAN RECYCLING  
COMPANY, LTD.

P.O. Box #27486 • Cleveland, OH 44127-0486  
Phone: (216) 281-9200 • FAX (216) 281-5505

August 27, 2001

Ms. Sherry-Slone

Via Fax No. 330-487-0769

Division of Hazardous Waste Management  
Ohio EPA – Northeast District Office  
2110 E. Aurora Road  
Twinsburg, OH 44087-1969

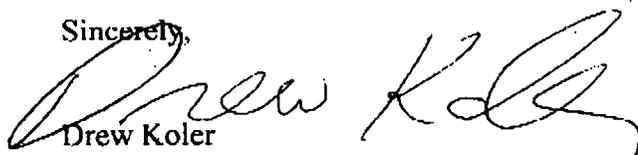
Dear Sherry:

Please send me a copy of the actual test results for Ohio EPA's sampling results that you summarize in your August 15, 2001 letter to ARC.

We would like to review the actual test results before responding to your letter.

Please fax the results to me at 216-281-5505 so we can expedite our review.

Sincerely,



Drew Koler  
Managing Member  
American Recycling Co., Ltd. (ARC)

Cc: T. Weber - ARC

SENT RESULTS 7/28/01  
VIA MAIL



File



State of Ohio Environmental Protection Agency

Northeast District Office

2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

August 15, 2001

RE: AMERICAN RECYCLING CO., LTD.  
OHD000720110  
CUYAHOGA COUNTY  
NOV #3

CERTIFIED MAIL

Mr. Drew Koler  
American Recycling Co., Ltd.  
P.O. Box #27486  
Cleveland, Ohio 44127-0486

Dear Mr. Koler:

On June 28, 2001, Ohio EPA visited your facility for the purpose of sampling American Recycling Co., Ltd.'s (ARC) wastes that are stored on-site. Ohio EPA had informed you of the purpose of our visit in a telephone call on June 22, 2001. Randy Ohlemacher, Eric Schultz, Frank Zingales, Nyall McKenna and I represented Ohio EPA. We met with you and Dan Bickley, the Plant Manager. Mr. Bickley assisted with the sampling and gave permission for photographs to be taken.

At the time of Ohio EPA's June 28, 2001, visit, Ohio EPA observed approximately 136 containers of unevaluated waste at the facility. Specifically, Ohio EPA observed 60 containers of waste phosphor powder, 8 containers of waste solvent, and 68 containers of waste you described as "screening fines" or "sand." You informed us that the 74 drums of mercury contaminated phosphor powder we observed during our March 12, 2001, visit to the facility had been consolidated into 60 drums and 6 of those had been reprocessed. You further explained that two of the ten drums of solvent that Ohio EPA observed during the March 12, 2001, visit had been determined to be virgin product.

During the June 28, 2001, sampling event, Ohio EPA opened each of the 60 drums of phosphor powder and 8 drums of solvent one at a time and observations were noted for each drum. Ohio EPA obtained grab samples from 3 of the solvent drums and 11 of the phosphor powder drums. One grab sample was obtained from one container of the "screening fines/sand."

The results from Ohio EPA's sampling show the following:

1. two of the three solvent drums sampled had a flash point < 140 degrees making them ignitable (D001) hazardous waste. All three of the solvent drums contained PCB's at greater than 50 mg/kg;
2. nine of the 11 phosphor powder drums had concentrations of mercury above the hazardous waste regulatory limit making them a toxic hazardous waste (D009); and



3. the sample of "screening fines/sand" was also above the regulatory limit for mercury making the contents of the drum hazardous waste (D009) if not legitimately and in a timely manner recycled.

ARC is in violation of the following hazardous waste laws:

1. **Waste Evaluation - OAC Rule 3745-52-11**

ARC has failed to evaluate the waste phosphor powder, solvent, and "screening fines/sand," to determine if these wastes are hazardous waste, in violation of Ohio Administrative Code (OAC) rule 3745-52-11. ARC needs to immediately evaluate each container of waste phosphor powder, solvent, and "screening fines/sand" to determine if the wastes are hazardous waste or ARC can conservatively consider the remaining unevaluated drums to be hazardous waste and manage them as such.

If ARC claims the "screening fines/sand" is not a waste, ARC must submit appropriate documentation in accordance with OAC 3745-51-02(F) to support this claim. Ohio EPA can provide you with criteria for this documentation and would make a determination based on the documentation submitted.

2. **Illegal Storage of a Hazardous Waste at an Unpermitted Facility - Ohio Revised Code (ORC) 3734.02(E) & (F)**

Since ARC has accumulated at least twelve but as many as 136 containers of hazardous waste over approximately six years without a permit, it is the operator of an unpermitted hazardous waste storage facility, in violation of ORC § 3734.02(E) and (F). Therefore, ARC is subject to the requirements of OAC rules 3745-50-40 to 3745-50-62 and OAC Chapters 3745-54 to 57 and 3745-65 to 3745-69.

ARC must immediately arrange for the proper transportation and treatment or disposal of all containers of hazardous waste. Also, ARC must submit to Ohio EPA a written plan describing how these wastes will be managed as they continue to be generated.

3. **Illegal Transportation of a Hazardous Waste to an Unpermitted Facility - Ohio Revised Code (ORC) 3734.02(F)**

ORC 3734.02(F) prohibits any person from transporting, or causing to be transported, hazardous waste to an unpermitted facility. ARC transported, or caused to be transported, approximately 50 drums of D009 hazardous waste illegally from its previous location to the current location in approximately February 1999, in violation of ORC 3734.02 (F). Transporters are subject to the requirements of OAC Chapter 3745-53.

AMERICAN RECYCLING CO., LTD.  
AUGUST 15, 2001  
PAGE 3

4. **Container Management - OAC 3745-52-34(A)**

None of the drums of phosphor powder, "screening fines/sand," or solvents were labeled as hazardous waste. All containers of hazardous waste must be immediately labeled with the words "hazardous waste." All potential drums of hazardous waste must be labeled as such until you can confirm or document that they are not hazardous waste. All drums of hazardous waste must be closed except when actively adding or removing wastes from them in accordance with OAC 3745-66-73(A). Until all of these drums have been removed from the site as hazardous waste or have been documented not to be hazardous waste, they must be inspected weekly and aisle space maintained to access them.

Please submit documentation demonstrating the measures you have taken to return to compliance with each of the above rules, within 30 days of the date of this letter. Be advised that because of the above significant violations, we have referred your facility for consideration of escalated enforcement action.

A copy of the hazardous waste laws can be found on our web site at [www.epa.state.oh.us](http://www.epa.state.oh.us). If you should have any questions related to this letter, please feel free to contact me at (330) 963-1226.

The absence of listing a specific deficiency in this letter does not relieve ARC from the responsibility to comply with all applicable hazardous waste laws.

Sincerely,



Sherry Slone  
Environmental Specialist  
Division of Hazardous Waste Management

SS:bo

cc: Natalie Oryshkewych, NEDO, DHWM  
Linda Neuman, CO

ec: Randy Ohlemacher, CAS, DHWM  
Todd Anderson, Legal  
Jeanette Smith, CAS, DHWM

**Sampling Visit Notes - June 28, 2001**  
**American Recycling Company, Ltd.**  
**Compiled from handwritten notes of Sherry Slone and Frank Zingales**

Facility, Address, and: American Recycling Company, Ltd. (ARC)  
Phone 3203 West 71<sup>st</sup> St.  
P.O. Box 27486  
Cleveland, OH 44127-0486  
Phone: (216) 281-2828  
Voice Mail: (216) 281-9200  
Fax: (216) 281-5505

Notification: 5/3/99 as SQG  
US EPA ID number: OHD000720110  
OEPA DHWM Inspectors: Sherry Slone (SS)  
Nyall McKenna (NM)  
Frank Zingales (FZ)  
Randy Ohlemacher (RO)  
Eric Schultz (ES)

Date of Visit: 6/28/01  
Time In: 8:55 AM  
Time Out: 6:15 PM  
Facility Representatives: Drew Koler (DK)  
Dan Bickley (DB)  
Purpose of Visit: Sampling.  
Sample(s) Taken: Yes  
Photograph(s) Taken: Yes, digital photos.  
Map(s): Yes  
Weather: Mid 80°F, sunny, humid

**FINDINGS:**

**8:55 AM**

Arrived at site. SS gave DK copy of 6/27/01 notice of violation letter.

**9:00 AM**

Reviewed site safety plan and sampling plan. FZ calibrated Photovac Tip II meter (PID) at 9:24AM, calibrated with standard gas - isobutylene at 100 PPM.

**9:50 AM**

Pre-meeting with DK and DB. DK told us that Hukill had already sampled the solvent wastes. RO indicated we still wanted to look at each of these drums and would probably want to sample also.

DK said that the previous 74 drums of phosphor powder had been reduced to 60 drums. Two of the drums were actually alkaline batteries. Two were crushed glass. Two were 'sand' and eight were sent through the process again to remove more of the glass and end caps.

We discussed safety issues and RO explained that we might have to use SCBA's if the proper cartridges did not arrive for our air purifying respirators. DK confirmed that the nearest medical facility is Metro Health on W. 25<sup>th</sup> St. and that 911 is available at this facility.

DB indicated he would be with us throughout the sampling and he wanted to collect split samples to retain. DK gave us a map of the facility.

Rich Hill is the third employee at this facility. He works processing lamps.

**10:15 AM**

Walked through the facility. SS asked DB for approval to take pictures. DB gave approval to obtain photographs. DB indicated that he had photographed area prior to OEPA sampling activities and will photograph OEPA during sampling activities. NM numbered drums of phosphor powder and solvents in the warehouse.

FZ discussed number of drums of phosphor powder with DB. DB explained that:

- 54 drums need to be processed to remove glass and end caps (staged in room);
- 5 drums have been processed (staged in room);
- 3 drums to be processed [staged on facility floor, near lamp recycling system (LRS)];
- 1 drum being processed (staged atop of platform where tubes feed into LRS).

DB indicated that ARC intends to process the 54 drums. DB indicated that ARC needs to identify use for remaining phosphor powder in the 5 drums. DB indicated that ARC has been working with Enviromatrix to find use, want to mix with cement product, currently running leachability tests. FZ stated that using this material in this manner constitutes disposal, cannot circumvent disposal in this manner. DB indicated that DK did not perceive this as disposal and wanted to know where in the regulations this was. FZ indicated that references to these regulations, if not already given to ARC, can be pointed out later. FZ directed DB to speak with SS.

DB indicated that other drums in room contain 'sand'. 'Sand' is glass that has been crushed to the degree that it has a sand-like appearance. DB indicated that sand is mixed with glass, 1 drum sand mixed with 1 gaylord box of glass, and sent to Strategic Materials in Indiana for use in the manufacturing of fiberglass insulation.

DB told SS that all of the floor drains had been plugged with concrete.

FZ drew map of warehouse identifying drums.

FZ made the following observations of drums:

Drums P-01 to P-51, P-54 to P-57, and P-60 were 55 gallon in size; drums P-52, P-53, P-58, and P-59 were 85 gallon in size. All drums had ring tops.

<u>Drum #</u>	<u>Labeling</u>
P-01	ARC label with words "Phosphor Powder", dated 4/00
P-02	ARC label with words "Phosphor Powder", dated 4/00
P-03	ARC label with words "Phosphor Powder", dated 10/99
P-04	ARC label with words "Phosphor Powder", dated 10/99
P-05	ARC label with words "Phosphor Powder", dated 6/13/00
P-06	ARC label with words "Phosphor Powder", dated 8/00 (date was lined out)
P-07	ARC label with words "Phosphor Powder Disposal", dated 5/13/98
P-08	ARC label with words "Phosphor Powder", dated 12/2/97
P-09	ARC label with words "Phosphor Powder", no date
P-10	ARC label with words "Broken Glass", dated 9/98
P-11	ARC label with words "Phosphor Powder", dated 10/99
P-12	ARC label with words "Phosphor Powder Mixed", dated 8/99
P-13	ARC label with words "Phosphor Powder", dated 12/3/97
P-14	ARC label with words "Phosphor Powder", dated 5/22/00
P-15	ARC label with words "Phosphor Powder", dated 10/10/98
P-16	ARC label with words "Phosphor Powder", dated 12/1/97
P-17	ARC label with words "Phosphor Powder", no date
P-18	ARC label with words "Phosphor Powder", dated 5/21/01
P-19	ARC label with words "Phosphor Powder", dated 10/9/98
P-20	Plain white address label with words "Phosphor Powder", no date
P-21	ARC label with words "Phosphor Powder", dated 1/00
P-22	ARC label with words "Phosphor Powder", no date
P-23	ARC label with words "Phosphor Powder", dated 9/4/97
P-24	No label
P-25	ARC label with words "Phosphor Powder", dated 3/5/01
P-26	ARC label with words "Phosphor Powder", dated 3/20/01 - 4/16/01
P-27	ARC label with words "Phosphor Powder", dated 12/28/98
P-28	ARC label with words "Phosphor Powder", dated 10/19/98
P-29	ARC label with words "Phosphor Powder", no date
P-30	ARC label with words "Phosphor Powder", no date
P-31	ARC label with words "Phosphor Powder Disposal", dated 8/21/98
P-32	No label
P-33	ARC label with words "Phosphor Powder", dated 4/99
P-34	Label torn off, some remnants of the label remained
P-35	No label
P-36	ARC label with words "Phosphor Powder", dated 12/99
P-37	ARC label with words "Phosphor Powder", dated 5/99
P-38	No label
P-39	ARC label with words "Phosphor Powder", no date
P-40	ARC label with words "Phosphor Powder", no date
P-41	ARC label with words "Phosphor Powder", dated "99"

P-42 No label  
P-43 No label  
P-44 ARC label with words "Phosphor Powder", dated 4/99  
P-45 ARC label with words "Phosphor Powder", dated 7/99; had another label - UPS shipping label addressed to Koler at ARC  
P-46 ARC label with words "Phosphor Powder", dated 2/00  
P-47 ARC label with words "Phosphor Powder", dated 5/00  
P-48 ARC label with words "Phosphor Powder", no date  
P-49 ARC label with words "Phosphor Powder", dated 9/14/98  
P-50 ARC label with words "Phosphor Powder", dated 5/22/00  
P-51 ARC label with words "Dust Collector Powder", dated 1/99  
P-52 ARC label with words "Phosphor Powder", dated 8/99  
P-53 No label  
P-54 ARC label with words "Phosphor Powder", no date  
P-55 ARC label with words "Phosphor Powder", dated 4/00  
P-56 ARC label with words "Phosphor Powder", dated 4/99  
P-57 ARC label with words "Dust Collector Powder", this was lined out, dated 4/99  
P-58 ARC label with words "Phosphor Powder", dated 9/99  
P-59 ARC label with words "Phosphor Powder", dated 8/99, date was lined out  
P-60 ARC label with words "Powder"

According to DB, drums P-17, P-18, P-25, P-26, and P-60 had already been re-processed.

**11:20 AM**

RO and ES donned Saranex, gloves, booties, respirator (organic vapor/particulate) to screen and sample drums containing solvent: S-01 to S-08.

S-01 PID 743, black drum, 100% full, single phase, clear amber liquid  
S-02 PID 1958, black drum, 100% full, single phase, clear amber liquid  
S-03 PID 1798, black drum, 100% full, single phase, clear amber liquid  
S-04 PID 2800, black drum, 2/3 full, single phase, clear amber liquid  
S-05 PID 928, red drum, 100% full, clear amber liquid, slightly darker than S-01 through S-04  
S-06 PID 458, red drum, 100% full, clear amber liquid, slightly darker than S-01 through S-04  
S-07 PID 1936, red drum, 1/3 to 1/2 full, clear amber liquid, slightly darker than S-01 through S-04  
S-08 PID 796, red drum, 100% full, clear amber liquid, slightly darker than S-01 through S-04

**11:45 AM**

FZ added trip blanks to cooler

**Sample S-04**

**Collection Procedure:** Sample S-04 obtained from 55 gallon steel drum, closed top. Sample S-04 is a grab sample. Sample S-04 collected with a new coliwasa and placed directly into 3 - 40 mL VOA vials and 1 quart container. ARC split sample, placed into quart container. OEPA sample collected first, ARC sample collected second.

**Sampler:** RO and ES

**Date and Time Sample Collected:** 6/28/01 at 11:45 AM

**Sample Description:** Sample consisted of clear amber liquid

**Sample Location and Depth:** Sample obtained from entire drum.

**Analyses:** Total VOCs, flashpoint, total PCBs

#### **Sample S-05**

**Collection Procedure:** Same as S-04

**Sampler:** RO and ES

**Date and Time Sample Collected:** 6/28/01 at 11:58 AM

**Sample Description:** Sample consisted of clear amber darker liquid

**Sample Location and Depth:** Sample obtained from entire drum.

**Analyses:** Total VOCs, flashpoint, total PCBs

#### **Sample S-08**

**Collection Procedure:** Same as S-04

**Sampler:** RO and ES

**Date and Time Sample Collected:** 6/28/01 at 12:09 PM

**Sample Description:** Sample consisted of clear amber darker liquid

**Sample Location and Depth:** Sample obtained from entire drum.

**Analyses:** Total VOCs, flashpoint, total PCBs

All OEPA samples placed into cooler with ice. All ARC samples not placed on ice or cooled. Custody seals placed on coolers after sampling completed.

#### **12:15 PM**

RO and ES out of respirator

#### **12:50 PM**

Caution tape placed around drums containing phosphor powder. Access restricted to personnel only with appropriate PPE. OEPA notified DB that needed to open all drums. DB used electric impact wrench to loosen bolt from ring top.

#### **1:10 PM**

RO and NM donned Saranex, gloves, booties, respirator (mercury vapor/particulate). RO and NM opened drums P-01 to P-60, one at a time, replacing lids after observing content. RO radioed observations to SS and FZ (in clean zone) who logged. SS and FZ recorded the following observations:

<u>Drum #</u>	<u>Observations</u>
---------------	---------------------

P-01 98% full, mostly white fine flour-like powder, some small grain glass (4-15 mm)

P-02 2/3 full, more fines less glass

P-03 95% full, mostly fines, some glass

P-04 95-98% full, mostly fines, some end caps, more larger glass (2-3 cm)

P-05 95% full, mostly fines, some end caps, some glass

P-06 70% full, mostly fines, some larger glass on top

P-07 98% full, powder below, glass on top

P-08 98% full, all fines

P-09 95% full, much glass on top

P-10 “

P-11 “

P-12 75% full, mostly fines, few end caps, some glass

P-13 95% full, mostly fines, few end caps, some glass

P-14 95% full, mostly fines, many end caps, more glass

P-15 85% full, mostly fines, few end caps, some glass

P-16 95% full, mostly fines, no end caps or glass visible

P-17 95% full, all fines, no end caps or glass, reprocessed

P-18 98% full, all fines, no end caps or glass, reprocessed

P-19 85% full, mostly fines, some glass

P-20 95% full, all fines, no end caps or glass

P-21 95% full, mostly fines, some larger glass

P-22 95% full, mostly fines, some amber and charcoal small grain glass

P-23 90% full, some larger glass, end caps, dark colored glass

P-24 90% full, some larger glass, end caps

P-25 95% full, all powder, reprocessed

P-26 85% full, all powder, reprocessed

P-27 90% full, some small glass, no end caps

P-28 85% full, some glass, no end caps

P-29 95% full, no glass, end caps

P-30 80% full, some larger glass, few end caps

P-31 95% full, some small glass, few end caps

P-32 90% full, some larger glass, end caps

P-33 95% full, mostly fines

P-34 90% full, mostly fines, some end caps, some glass

P-35 90% full, much large glass, end caps

P-36 85% full, all fines

P-37 75% full, some larger glass, few end caps

P-38 couldn't open

P-39 90% full, some larger glass, few end caps

P-40 60% full, some larger glass, few end caps

P-41 75% full, some larger glass

P-42 couldn't open

P-43 80% full, some larger glass, few end caps

P-44 90% full, some larger glass, few end caps

P-45 75% full, all powder  
P-46 90% full, some larger glass  
P-47 90% full, some larger glass, few end caps  
P-48 95% full, all powder  
P-49 95% full, some larger glass, few end caps  
P-50 80% full, some larger glass, few end caps  
P-51 90% full, some small glass, few end caps  
P-52 85% full, some larger glass, few end caps  
P-53 85% full, some larger glass  
P-54 90% full, some larger glass, green end caps  
P-55 90% full, some small glass  
P-56 90% full, some small glass, few end caps  
P-57 90% full, no glass, few end caps  
P-58 90% full, some larger glass, few end caps  
P-59 75% full, some small glass, no end caps  
P-60 95% full, all powder, reprocessed

Lids were removed on some 'sand' drums. RO and NM observed some fines or powder but mostly multi-colored glass in these drums. Lids replaced on top of drums.

**2:00 PM**

RO and NM out of respirators. FZ explained to DB that OEPA would select which drums to sample. FZ asked DB if he was OK with how drums were staged, lids on. DB did not object. According to DB, ARC had opened all drums, in room, and looked inside with flashlight. All contained phosphor powder.

OEPA selected the following drums to sample with supporting rationale:

P-07: Label had words "Phosphor Powder Disposal"

P-31: Label had words "Phosphor Powder Disposal"

P-51: Label had words "Dust Collector Powder"

P-57: Label had words "Dust Collector Powder", this was lined out

P-25: Reprocessed phosphor powder

P-60: Reprocessed phosphor powder

P-22: Colored glass (i.e. amber, dark grey) observed in drum.

P-03, P-09, P-14, P-34, P-45: Randomly selected (based upon lottery ticket that was in NM's possession - numbers randomly selected).

**2:30 PM**

Lunch

**3:00 PM**

RO and NM in respirators.

**Sample P-03**

**Collection Procedure:** Sample P-03 obtained from 55 gallon drum, ringtop. Sample is a grab sample. Sample P-03 collected with a stainless steel trier (decontaminated prior to sampling). Trier inserted into contents of drum. Trier withdrawn, sample collected and placed directly into disposable aluminum pan. Sample homogenized in pan. OEPA sample placed into 2 - 9oz CWM jars, collected first. ARC split sample, placed into quart container, collected second. OEPA sample placed into cooler with ice.

**Sampler:** RO and NM

**Date and Time Sample Collected:** 6/28/01 at 3:40 PM

**Sample Description:** Sample consisted of white, fine, powder (resembled flour) and larger, more course fines, crushed glass.

**Sample Location and Depth:** Obtained sample from top of material to 3' into drum, 0 (top of material) to 3'deep.

**Analyses:** Total and TCLP RCRA metals

#### **Sample P-07**

**Collection Procedure:** Same as sample P-03.

**Sampler:** RO and NM

**Date and Time Sample Collected:** 6/28/01 at 3:44 PM

**Sample Description:** Sample consisted of white, fine, powder (resembled flour) and larger, more course fines, crushed glass.

**Sample Location and Depth:** Obtained sample from top of material to 3' into drum, 0 (top of material) to 3'deep.

**Analyses:** Total and TCLP RCRA metals

#### **Sample P-09**

**Collection Procedure:** Same as sample P-03.

**Sampler:** RO and NM

**Date and Time Sample Collected:** 6/28/01 at 3:50 PM

**Sample Description:** Sample consisted of white, fine, powder (resembled flour) and larger, more course fines, crushed glass. More glass, compared to other samples, in this sample.

**Sample Location and Depth:** Obtained sample from top of material to bottom of drum.

**Analyses:** Total and TCLP RCRA metals

#### **Sample P-14**

**Collection Procedure:** Same as sample P-03.

**Sampler:** RO and NM

**Date and Time Sample Collected:** 6/28/01 at 3:54 PM

**Sample Description:** Sample consisted of white, fine, powder (resembled flour) and larger, more course fines, crushed glass.

**Sample Location and Depth:** Obtained sample from top of material to 3' into drum, 0 (top of material) to 3'deep.

**Analyses:** Total and TCLP RCRA metals

**4:00 PM**

RO and NM out of respirators. ES and FZ decontaminated 4 triers on-site. Decon consisted of 3 stations [wash with Alconox solution mixed with tap water (trier scrubbed with brush), rinse with tap water (trier scrubbed with brush), final rinse with ASTM grade water], each with a 5 gallon bucket.

**4:15 PM**

RO and NM in respirators.

**Sample P-22**

**Collection Procedure:** Same as sample P-03.

**Sampler:** RO and NM

**Date and Time Sample Collected:** 6/28/01 at 4:18 PM

**Sample Description:** Sample consisted of white, fine, powder (resembled flour) and larger, more course fines, crushed glass. More fines, compared to other samples, in this sample.

**Sample Location and Depth:** Obtained sample from top of material to 3' into drum, 0 (top of material) to 3'deep.

**Analyses:** Total and TCLP RCRA metals

**Sample P-25 and P-25-D [P-25-D is a duplicate of P-25, for QA/QC]**

**Collection Procedure:** Same as sample P-03.

**Sampler:** RO and NM

**Date and Time Sample Collected:** 6/28/01 at 4:25 PM

**Sample Description:** Sample consisted of all white, fine, powder (resembled flour).

**Sample Location and Depth:** Obtained sample from top of material to bottom of drum.

**Analyses:** Total and TCLP RCRA metals

**Sample P-31**

**Collection Procedure:** Same as sample P-03.

**Sampler:** RO and NM

**Date and Time Sample Collected:** 6/28/01 at 4:34 PM

**Sample Description:** Sample consisted of white, fine, powder (resembled flour) and larger, more course fines, crushed glass.

**Sample Location and Depth:** Obtained sample from top of material to 3' into drum, 0 (top of material) to 3'deep.

**Analyses:** Total and TCLP RCRA metals

**Sample P-34**

**Collection Procedure:** Same as sample P-03.

**Sampler:** RO and NM

**Date and Time Sample Collected:** 6/28/01 at 4:40 PM

**Sample Description:** Sample consisted of white, fine, powder (resembled flour) and larger, more course fines, crushed glass.

**Sample Location and Depth:** Obtained sample from top of material to 3' into drum, 0

(top of material) to 3'deep.

**Analyses:** Total and TCLP RCRA metals

**4:45 PM**

RO and NM out of respirators

**4:50 PM**

ES and FZ decontaminated 5 triers on-site. Same decon procedure used as described before.

**4:55 PM**

RO and NM in respirators

**5:00 PM**

ES and FZ collected equipment blank (Sample EB-1) from 1 trier, after decon complete. Deionized (DI) water from lab poured over trier into aluminum pan. From aluminum pan, rinseate placed into clear liter container with preservative (Nitric Acid). Sample EB-1 placed into cooler with ice.

**Sample P-45**

**Collection Procedure:** Same as sample P-03.

**Sampler:** RO and NM

**Date and Time Sample Collected:** 6/28/01 at 5:00 PM

**Sample Description:** Sample consisted of white, fine, powder (resembled flour) and larger, more course fines, crushed glass.

**Sample Location and Depth:** Obtained sample from top of material to 3' into drum, 0 (top of material) to 3'deep.

**Analyses:** Total and TCLP RCRA metals

**Sample P-51**

**Collection Procedure:** Same as sample P-03.

**Sampler:** RO and NM

**Date and Time Sample Collected:** 6/28/01 at 5:05 PM

**Sample Description:** Sample consisted of white, fine, powder (resembled flour) and larger, more course fines, crushed glass.

**Sample Location and Depth:** Obtained sample from top of material to 3' into drum, 0 (top of material) to 3'deep.

**Analyses:** Total and TCLP RCRA metals

**Sample P-57**

**Collection Procedure:** Same as sample P-03.

**Sampler:** RO and NM

**Date and Time Sample Collected:** 6/28/01 at 5:10 PM

**Sample Description:** Sample consisted of white, fine, powder (resembled flour) and

larger, more course fines, crushed glass.

**Sample Location and Depth:** Obtained sample from top of material to 3' into drum, 0 (top of material) to 3'deep.

**Analyses:** Total and TCLP RCRA metals

**Sample P-60**

**Collection Procedure:** Same as sample P-03.

**Sampler:** RO and NM

**Date and Time Sample Collected:** 6/28/01 at 5:12 PM

**Sample Description:** Sample consisted of white, fine, powder (resembled flour).

**Sample Location and Depth:** Obtained sample from top of material to bottom of drum.

**Analyses:** Total and TCLP RCRA metals

**Sample SF-1**

**Collection Procedure:** Same as sample P-03.

**Sampler:** RO and NM

**Date and Time Sample Collected:** 6/28/01 at 5:20 PM

**Sample Description:** Sample consisted small particles of glass.

**Sample Location and Depth:** Obtained sample from top of material to 3' into drum, 0 (top of material) to 3'deep.

**Analyses:** Total and TCLP RCRA metals

**5:30 PM**

RO and NM out of respirators. Removed restricted area tape. Packed up equipment and removed from building. SS took photographs. SS told DB it will probably be about 1 month before sample results come back from the lab. We will be able to share them at that time if ARC is interested.

**6:15 PM**

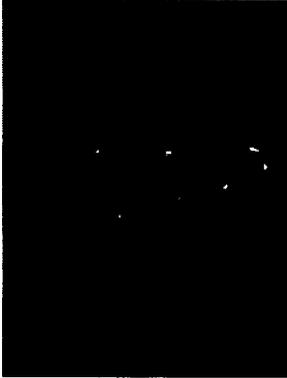
Left site.

**American Recycling Company**  
**3203 West 71<sup>st</sup> St., Cleveland**  
**OHD000720110**  
**June 28, 2001**

Sony Digital Camera

*Photos #1 through #12 and #22 through #28 taken by Sherry Slone.*

*Photos #13 through #21 taken by Frank Zingales*



#1 First row of pallets of phosphor powder  
Looking toward the west at the south end of warehouse

#1 - #12 photos of the container storage area from the south end of the warehouse to the north prior to sampling



#2



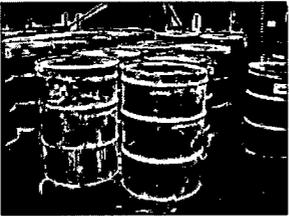
#3 Second row of pallets of phosphor powder



#4 Third row of pallets of phosphor powder



#5



#6

Fourth row of pallets of phosphor powder



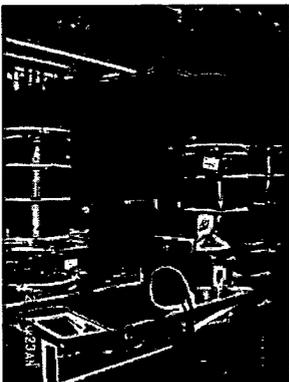
#7

Looking toward SW corner of warehouse  
59 drums of phosphor powder.



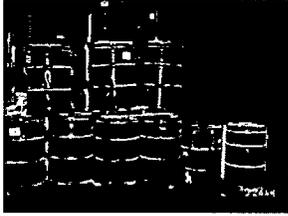
#8

66 drums of 'sand'  
Looking toward NW corner of warehouse



#9

Drums of 'sand' and gaylords of glass



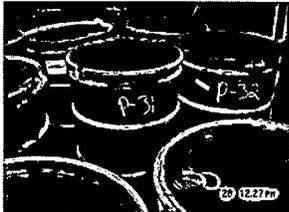
#10 Drums of 'sand'  
NW corner of warehouse



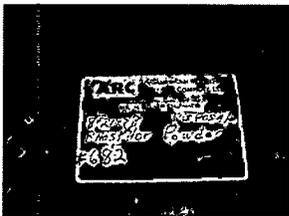
#11 Used solvent drums  
Along north wall of warehouse



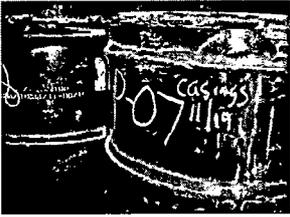
#12 One drum of 'sand' and reprocessed phosphor powder



#13 Drum P-31



#14 Label on top of drum P-31



#15 Drum P-07



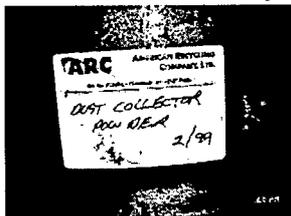
#16 Label on side of drum P-07, "Phosphor powder disposal", "5/13/98"



#17 Label on side of drum P-07



#18 Drum P-51



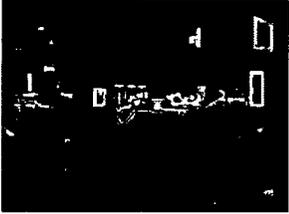
#19 Label on side of drum P-51, "Dust Collector Powder", "1/99"



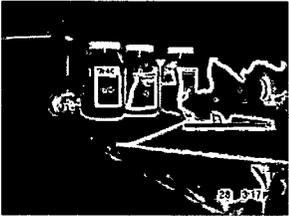
#20 Drum P-57



#21 Label on side of P-57, "Dust collector powder" lined out, "4/99"



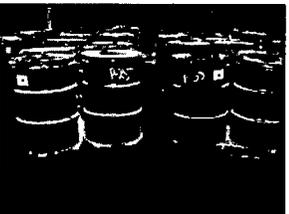
#22 ARC's unpreserved split samples



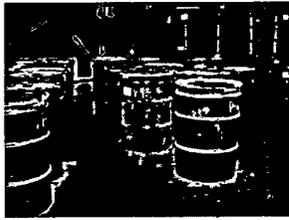
#23 ARC's unpreserved split samples



#24 Photos #24 - #28 after sampling was completed



#25



#26



#27

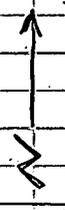


#28

KEY:

- A: 3-55 GALLON DRUMS OF PHOSPHOR POWDER, TO BE PROCESSED
- B: 2 EMPTY DRUMS, FORMERLY CONTAINED SOLVENT
- C: 11-55 GALLON DRUMS OF SAND
- D: 21-55 GALLON DRUMS OF SAND
- E: 3-55 GALLON DRUMS OF SAND, 8 METAL BINS WITH BALLASTS
- F: 33-55 GALLON DRUMS OF SAND

S01 to S08



(A)

(E)

(E)

(D)

(C)

P48 to P53  
P54 to P59

P33 to P39  
P40 to P47

P17 to P24  
P25 to P32

P1 to P8  
P9 to P16

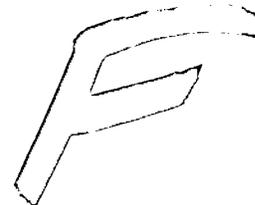
P60

(B)

6/28/01 Observations By FZ



State of Ohio Environmental Protection Agency  
Northeast District Office



2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

June 27, 2001

RE: AMERICAN RECYCLING CO., LTD.  
OHD000720110  
CUYAHOGA COUNTY  
NOV#2

Mr. Drew Koler  
American Recycling Company, LTD.  
P.O. Box #27486  
Cleveland, OH 44127-0486

**CERTIFIED MAIL**

Dear Mr. Koler:

I received your response to my April 19, 2001 notice of violation on May 16, 2001. The following violations of Ohio's hazardous waste regulations and laws remain:

1. **Storage of a Hazardous Waste at an Unpermitted Facility and Transporting a Hazardous Waste to an Unpermitted Facility - Ohio Revised Code (ORC) 3734.02(F)**

You indicated during Ohio EPA's March 12, 2001 visit, that 100% of the lamps received are recycled. I reiterated this in my April 19, 2001 letter along with other information from you. It appears that what you meant was that 100% of the lamps received are placed into the recycling process. However, not all of the by-products of that recycling process are being recycled. In your response letter you state that about 90% of the lamp glass/sand is reused and about 10% is being stored. You also said at our visit that there are about 74 drums of the mercury-contaminated phosphor powder being stored on-site.

While it is true that used fluorescent lamps are considered a characteristic by-product in Ohio and if reclaimed timely are not considered a waste and not subject to Ohio's hazardous waste rules, **any material generated from the recycling process might be a waste and subject to the hazardous waste rules.** (Please see page 2 of the Ohio EPA's September 1994 Fact Sheet: The Management of Fluorescent Lamps and PCB Ballasts that you included as an attachment to your response.) You indicated at our visit that the level of mercury in the mercury-bound phosphor powder would be above the hazardous waste regulatory limit of 0.2 mg/l, so if the powder is a waste and not reclaimed it would be D009 hazardous waste. Also you signed a manifest on March 18, 1998, certifying this material was accurately described as a D009 hazardous waste. If the mercury is above the 0.2 mg/l limit, then according to Ohio Administrative Code (OAC) 3745-51-01 and 3745-51-02, **the phosphor powder from the recycling process is also a characteristic by-product** and if reclaimed timely would not be considered a waste.



AMERICAN RECYCLING CO., LTD.

JUNE 27, 2001

PAGE - 2 -

However, characteristic by-products can not be accumulated speculatively. Speculative accumulation occurs when a person accumulating the material can not show that the material has a feasible means of being recycled and that during the calendar year, commencing January first, the amount of material that is actually recycled or transferred to a different site for recycling equals at least 75% by weight or volume of the amount of that material accumulated at the beginning of the calendar year. Since you could show us that only one drum of the phosphor material was sent off on March 18, 1998 to a mercury reclaimer and about 74 drums have accumulated over six years, you have definitely accumulated speculatively making this material a waste. When hazardous wastes are stored longer than 90 days by an unpermitted facility, storage has occurred in violation of ORC 3745.02(E) and (F). Storage facilities are subject to the requirements of rules OAC 3745-50-40 to 3745-50-62, 3745-54 to 57, and 3745-65 to 3745-69.

Further, since ARC transported, or caused to be transported, approximately 50 drums of this waste from its previous location to its current unpermitted site, transportation in violation of ORC 3745.02(F) has occurred. Transporters are subject to the requirements of OAC Chapter 53.

Ohio EPA plans to conduct representative sampling of the waste on June 28, 2001 to verify the mercury level as discussed with you on June 22, 2001. Please do not disturb or dispose of this waste prior to our sampling unless it is managed and disposed of as a hazardous waste.

**2. Waste Evaluation - OAC Rule 3745-52-11**

According to your response letter, the containers of used solvent from the ballast metal parts washing process at your former facility contain a mixture of a solvent with a flash point lower than 140 degrees and a solvent with a flash point higher than 140 degrees. These wastes apparently have not been tested to determine if they might contain any hazardous metals from the cleaning of the ballast metal parts. These wastes should have been evaluated through analysis in accordance with OAC 3745-52-11 upon generation.

During our phone conversation on June 22, 2001, you stated that you already had Hukill Chemical sample your ten drums of solvents. Of the ten drums, two were virgin kerosene that will be used in a space heater. The remaining eight drums were divided into two groups of four drums each and a sample from each group was taken. A third composite sample was taken from the two groups. All three samples were analyzed and found to have a flash point > 150 degrees Fahrenheit and PCB's < 50 ppm. We had requested, and you had agreed in your response, to notify us five business days in advance of sampling these wastes so that we could be present. You did not do that.

JUNE 27, 2001

PAGE - 3 -

Since we were not present when you had Hukill sample, Ohio EPA might sample this waste as well on June 28, 2001. Please do not disturb or dispose of this waste prior to our sampling unless it is managed and disposed of as a hazardous waste.

Regarding our concerns:

1. Please be advised the information regarding your PCB materials has been forwarded to USEPA for their follow-up.
2. Your response letter indicated you would confirm with your landlord that the floor drain in the phosphor powder storage area is not functional. Were you able to confirm this?
3. Please be advised that any claim that the mercury-contaminated phosphor powder is not a waste needs to be supported by documentation in accordance with OAC 3745-51-02(F). You would need to show how the powder takes the place of a needed ingredient or how it enhances the product. Also characteristic by-products are wastes in accordance with OAC 3745-51-02(C)(1)(a), when they are used to produce products that are applied to or placed on the land or are otherwise contained in products that are applied to or placed on the land (in which case the product itself is a waste).

A copy of the hazardous waste rules and laws can be found on our web site at [www.epa.state.oh.us](http://www.epa.state.oh.us). If you should have any questions, please feel free to contact me at (330) 963-1226.

The absence of listing a specific deficiency in this letter does not relieve ARC from the responsibility to comply with all applicable hazardous waste regulations.

Sincerely,



Sheryl K. Slone, P. E.  
Environmental Engineer  
Division of Hazardous Waste Management

SKS:ddw

cc: Natalie Oryshkewych, NEDO, DHWM  
Linda Neuman, DHWM, CO  
ec: Tammy McConnell  
Jeff Mayhugh, IT&TS, DHWM  
Rose Connelly, IT&TS, DHWM  
Randy Ohlemacher, CAS, DHWM  
Todd Anderson, Legal  
Jeanette Smith, CAS, DHWM



AMERICAN RECYCLING  
COMPANY, LTD.

P.O. Box #27486 • Cleveland, OH 44127-0486  
Phone: (216) 281-9200 • FAX (216) 281-5505

FILE  
RECEIVED  
MAY 16 2001  
OHIO EPA NEDO

May 15, 2001

Ms. Sheryl K. Slone  
Ohio EPA – Northeast District Office  
Division of Hazardous Waste Management  
2110 E. Aurora Road  
Twinsburg, OH 44087-1969

Certified Mail

Dear Ms. Slone:

Thank you for agreeing to come back on March 12<sup>th</sup> to meet with Dan Bickley and me. As I explained when Rose Connelly, Randy Ohlemacher and you showed up unannounced on March 8<sup>th</sup>, we were short handed in the lamp recycling plant that day and would have had to stop recycling because I wanted Dan Bickley, the new ARC Supervisor to attend our meeting. Dan's job responsibilities at ARC include some key environmental, health and safety functions.

Stopping lamp recycling for the unannounced meeting would have created an unwarranted financial burden on American Recycling Company, Ltd. (ARC).

**We strongly disagree with the alleged discovery of several significant violations of Ohio's hazardous waste regulations and laws at ARC.**

Before we address the two alleged violations in your letter dated 4/19/01, we would like to go over some important and significant background information.

We discussed and/or met with key Ohio EPA (OEPA) officials before and after ARC was formed in October 1994 to go over in detail the specific Ohio EPA rules and laws that apply to fluorescent/high intensity discharge lamp and ballast recyclers in Ohio.

Our first meeting at the OEPA to discuss the lamp/ballast recycling rules was on November 30<sup>th</sup>, 1994 at the Columbus Office with Jim Braun-Division of Air Pollution Control, Craig Butler-Division of Hazardous Waste Management/Office of Pollution Prevention, and Art Coleman-Division of Solid & Hazardous Waste Management (See enclosed ARC letter dated December 6, 1994).

We were also given some important OEPA produced and written documents including the OEPA September 1994 Fact Sheet The Management of Fluorescent Lamps and PCB Ballasts in Ohio. Also, Art Coleman faxed me a letter on December 3, 1999 that he wrote to Recyclights, Inc. on September 16, 1996 explaining some key provisions of Ohio's mercury lamp recycling rules that also apply to ARC (See both documents enclosed).

Ms. Sheryl Slone, Ohio EPA – Northeast District Office  
May 15, 2001  
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As you know, we also submitted and received approval on our OEPA/Ohio Department of Development Pollution Prevention (P2) Loan Technical Review Worksheet (TRW) in August 1995 for our new lamp recycling system and upgrades to our light ballast recycling system. We received the P2 loan and completed installation and limited operation of our lamp/ballast recycling systems the second half of 1997.

The important purpose of all the discussions, meetings and pollution prevention equipment installation and operation activity was to firmly establish with the complete approval of the OEPA that ARC was not a hazardous waste treatment or storage facility. At no time did the OEPA indicate that they considered ARC planned operating activities to require air, hazardous waste or PCB permits.

This background information is critically important because it is the foundation ARC was established on and has significant impact on our initial and current business and operating plans.

With this important background information in place, lets review the alleged ARC violations:

1. The section What are your responsibilities if your fluorescent lamps are hazardous waste? on page 2 of the OEPA Fact Sheet: The Management of Fluorescent Lamps and PCB Ballasts in Ohio states in part: "In Ohio, used and off-specification (ie. defective) lamps exhibiting a hazardous characteristic are considered characteristic by-products. Unused lamps are considered commercial chemical products. According to OAC Rule 3745-51-02[C][3], characteristic by-products and commercial chemical products destined for reclamation are not considered waste, and do not require compliance with Ohio's hazardous waste rules."

Art Coleman also confirms the above referenced OEPA rule in his letter to Recyclights, Inc. dated September 16, 1996.

You acknowledge in your letter and checklist report that ARC recycles (i.e., reclaims) 100% of the lamps we receive.

Furthermore, ARC sends our recycled lamp glass and screener sand fines to companies that use this material as a beneficial feedstock to make other products which you also acknowledged in your letter.

After a further review of all the recycled lamp glass and screener sand fines sent off site by ARC for beneficial reuse from 1978 (1978 was the first full year of lamp recycling at ARC, the majority of 1997 was spent installing, checking the operation and fine tuning the new lamp recycling system) up to and including February 2001 shows a total of over 517,000 lb./258 tons of lamp glass/sand sent off site (See enclosed ARC, Container Recycling Alliance and Strategic Materials documentation).

Ms. Sheryl Slone, Ohio EPA – Northeast District Office  
May 15, 2001  
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The 74 drums of the ARC intermediate lamp glass/phosphor powder product at an average weight of 660 pounds per drum total 48,840 pounds. This represents only 9.5% (i.e., 48,840 lb. divided by 517,000 lb.) of the total lamp glass/sand sent offsite for beneficial reuse by ARC. In other words, over 90% of the ARC lamp recycling glass/sand is beneficially reused in other products.

We never considered the 74 drums of the ARC intermediate lamp glass/phosphor powder to be a waste. The one drum of this intermediate product we sent off-site on March 18, 1998 to a mercury reclaim facility was part of an exchange for some light ballasts drums the mercury reclaim facility wanted us to recycle for a Cleveland area project they completed. We do not consider our lamp glass/phosphor powder intermediate product to be a D009 hazardous waste. We were informed by the mercury reclaim facility that the state of Wisconsin EPA where there mercury reclaim facility is located considers the ARC intermediate product to be a D009 waste and we must manifest our material to them this way. The mercury reclaim facility completed the State of Wisconsin Uniform Hazardous Waste Manifest with the D009 waste code for ARC.

As I discussed with Rose, Randy and you during your visit at ARC, we are reprocessing the ARC recycled lamp glass/phosphor powder mixture through our lamp recycling system because we have made some system improvements in December 2000 that allow us to reclaim larger pieces of lamp glass that we showed you in this intermediate product. As we also discussed with you, ARC plans on reprocessing this intermediate product material based on a schedule reflecting our priority to recycle incoming cash generating customer lamps first.

2. As we explained the day of your visit, the primary light ballast metal parts washing material ARC used in the past was a safety solvent from Hukill Chemical called Solvent 140-66 (Huvasol 140). Hukill indicated that this solvent would not be considered an ignitable waste because the flash point was greater than 140 degrees F and did not contain any other RCRA regulated constituents. The material safety data sheet (MSDS) for Huvasol 140 shows a flash point of 142.0 – 150.0 degrees F. I did not have the Huvasol 140 MSDS (enclosed) readily available for your review during your visit because we no longer use this solvent since we no longer recycle light ballasts. As we further explained, the MSDS sheet and flash point you refer to in your report was for some pure K-1 type kerosene that our employees use in the plant for portable style heaters during cold weather. Some of the drums you saw may contain the pure K-1 heating kerosene.

We did add some kerosene to our large ballast metals parts washing tank to make up for some Huvasol 140 solvent drag out loss on cleaned parts.

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The ballast metal parts wash tank solution was periodically screened for PCBs at our former location using a Dexsil Clor-N-Oil 50 test kit (USEPA SW-846 Method 9079). All test kit screen results showed PCB levels were below 50 ppm for the wash tank solution.

In summary, based on our knowledge of the ARC former light ballast parts washing process we do not believe this mixture of Huvasol 140, kerosene, and residual ballast parts oil is a hazardous waste.

We will however have the used parts wash mixture tested for flash point and PCBs as back up to our knowledge of this material. We will notify you five business days in advance of the sampling date.

If the above testing shows the parts wash mixture is a hazardous waste, we will make arrangements with an appropriate disposal facility (e.g., Chemical Solvents) to have the waste removed from ARC based on available cash and other priority ARC expenses.

**We have the following responses to your concerns with the ARC recycling operation:**

We had a rather lengthy discussion of ARC plans to make some commercial products from the recycled lamp glass, glass fines, and phosphor powder. We showed you some samples of the art glass and synthetic-Italian marble that some other companies made for us with 100% or a very high percentage of ARC recycled lamp glass. We explained that this was an important part of ARC's continued pollution prevention commitment and to control our recycled lamp product variable costs.

We also discussed some other products we were evaluating that could be made using our glass fines and phosphor powder such as cement building blocks and floor/wall tiles. Calcium, a major component of our phosphor powder product is also a major ingredient in cement-based products.

Silica (sand) is a major component of our glass fines product and is also a major ingredient in ceramic-glass floor/wall tiles.

I think Dan Bickley made a comment that he was not sure if the ARC sand fines would be a needed ingredient for cement-based building blocks. Since Dan is new to ARC, I remember clarifying his comments with some of the information above and indicated that we were still evaluating these potential ARC products.

Apparently you misunderstood our comments on ARC legitimate recycled lamp product plans.

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Regarding the 300+ drums of PCB and non-PCB light ballasts at ARC, we again refer to the OEPA September 1994 Fact Sheet: The Management of Fluorescent Lamps and PCB Ballasts in Ohio for important information that the ARC business and operating plans were based on.

The section Management of Ballasts on page 2 states in part “In specific situations, ballasts are exempt from TSCA requirements. For instance, TSCA does not regulate the disposal of non-leaking, Small Capacitors.”

The light ballasts that ARC accepted all contained small capacitors.

It was our understanding from some discussions with EPA officials that it was acceptable to determine if a light ballast capacitor was leaking PCBs by a visual inspection of the outside metal casing of the light ballast. If the outside metal casing showed no visible signs of a black oily or tar-like substance then this was adequate to determine the PCB small capacitor inside the ballasts was non-leaking. There was no requirement to open up the light ballast and inspect or test the internal small capacitor or potting material.

It was our experience from visually inspecting the outside of light ballasts that very few had leaking small capacitors.

Based on the OEPA Fact Sheet referenced above, our discussions with EPA officials, and our experience with recycling light ballasts it was determined that ARC was not required to obtain a TSCA PCB facility operating or storage permit.

As I indicated during your visit, we do have plans to start removing small quantities at a time of the PCB light ballast drums to an EPA approved facility as soon as the ARC financial situation improves.

We will confirm with our landlord that the floor drains you noticed in the area of our phosphor powder product are not functional.

Please make the following correction to item # 8 under the Recycling Process section of the Fluorescent Lamp Recycler Site Visits checklist:

Chemtron is a broker that has sent ARC some mercury containing items for recycling.

ARC has not shipped Chemtron any mercury containing items.

ARC has sent some mercury containing items to the Salesco Systems Phoenix, AZ retort operation.

ARC sent one drum of our mercury containing phosphor powder/lamp glass mixture intermediate product to the Mercury Waste Solutions retort operation in Union Grove, WI.

Ms. Sheryl Slone, Ohio EPA – Northeast District Office

May 15, 2001

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**We have the following summary comments and concerns:**

1. We appreciate the OEPA's initial encouragement and support of ARC's pollution prevention plans and activities starting in 1994 when ARC was established. The pollution prevention loan ARC received in 1997 was put to very good use with ARC mercury containing lamp recycling/reclaiming activities that have so far diverted 258+ tons of lamp glass/glass fines, and metal end caps from Ohio's and other states municipal/sanitary landfills or incinerators.  
This represents a lamp component recycling/reclamation rate of greater than 90%.  
From our comments above you know that we also have plans for ARC to manufacture some commercial products from other lamp recycling products (i.e., lamp glass, lamp glass/phosphor powder mixture and phosphor powder) that will further increase our reclamation rate and improve control by internalizing ARC recycling costs and profits. Our past light ballast recycling activities have also diverted many tons of PCB and non-PCB wastes from municipal/sanitary landfills or incinerators. The recycled light ballast metal components (i.e., aluminum, copper and steel) were beneficially reclaimed.

We do have some serious concerns about the OEPA's arbitrary reclassification of some of our legitimate lamp recycling activities as a violation of the OEPA's hazardous waste rules (See alleged violation No. 1).

2. We understand that the OEPA is considering adopting the U.S. EPA Universal Waste Lamp Rule (See enclosed OEPA January 2001 Fact Sheet: How the Universal Waste Rule Will Affect Facilities Managing Fluorescent Lamps) and this was the reason given for your visit to ARC.  
We are encouraged that the OEPA may adopt this important Lamp UWR that will benefit all Ohio lamp recyclers.  
We are concerned whether the OEPA will adequately support the Lamp UWR and specifically lamp recycling with important educational outreach, training, and inspection activity and funding.  
It is very important that the OEPA continues to support ARC and other Ohio lamp recyclers via expanding lamp generator inspections and education programs. Further state of Ohio funding and technical support is also necessary to support lamp recycling product development and scrap commodities markets.  
ARC has not been able to locate a lamp glass broker/recycler in Ohio that will accept our material at a cost effective price. We are currently paying over \$20.00 per ton to ship our lamp glass out of state to an Indiana glass broker/recycler.  
The primary reason that ARC stopped recycling light ballasts was because of the depressed or soft secondary metal commodity markets.

Ms. Sheryl Slone, Ohio EPA – Northeast District Office  
May 15, 2001  
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If you need further clarification or have any questions please call me at 216-281-9200.

Sincerely,

A handwritten signature in black ink that reads "Drew Koler". The signature is written in a cursive, flowing style.

Drew Koler  
Managing Member  
American Recycling Co., Ltd. (ARC)

Cc: Craig Butler, OEPA, Central Office  
Arthur "Art" Coleman, Jr., OEPA, Central Office  
Gerald Meyer, Growth Capital Corp.  
Dan Bickley, ARC  
Tom Weber, ARC

Enclosures



**AMERICAN RECYCLING  
COMPANY, LTD.**

7471 Tyler Boulevard • Mentor, Ohio 44060  
(216) 946-2221 • FAX (216) 946-0045

December 6, 1994

Mr. Craig W. Butler  
Ohio EPA  
Division of Hazardous Waste Management  
P. O. Box 1049  
1800 Watermark Drive  
Columbus, OH 43266-0149

Dear Craig:

It was a pleasure to finally meet you at the OEPA Columbus office on November 30th after discussing the Ohio Green Lights Program and fluorescent lighting ballast/ lamp disposal and recycling over the phone the past couple of months. Colleen and I were very impressed with the knowledge and support that you, Jim Braun, and Art Coleman provided at the meeting. We want to reemphasize that we share your concerns and will continue to team with the Ohio EPA to provide environmentally safe and cost effective fluorescent ballast/ lamp disposal and recycling services for our customers.

Thanks again for following up on the permit status of USA Lights ( a potential ally of ours for lamp recycling ) and providing information on a new USEPA proposal that may regulate PCB ballast "potting" compound.

Sincerely,

A handwritten signature in black ink, appearing to read 'Drew R. Koler', written in a cursive style.

Drew R. Koler

cc: Jim Braun, OEPA-DAPC  
Arthur L. Coleman, OEPA-DSHWM  
Colleen M. Day, ARC, Ltd.



State of Ohio Environmental Protection Agency

STREET ADDRESS:

1800 Water/Mark Drive  
Columbus, OH 43215-1099

TELE: (614) 644-3020 FAX: (614) 644-2329

MAILING ADDRESS:

P.O. Box 1049  
Columbus, OH 43216-1049

September 16, 1996

Brian R. Golab, Environmental Manager  
Recyclights, Inc.  
401 West 86th Street  
Minneapolis, MN 55420-2707

Dear Mr. Golab:

Recyclights requested the Ohio EPA to review its latest mercury recycling plan (August 23, 1996). We reviewed the plan and offer the following comments.

To simplify the handling and processing of its customers' mercury-containing items, Recyclights has developed several mercury recycling categories (a to h). We previously provided Recyclights written responses on some of these categories. We clarified that Ohio does not consider mercury lamps and mercury-containing electronic devices (see our February 16, 1996 letter) hazardous wastes if a business has them reclaimed (As stated in Table I, OAC rule 3745-51-02). Ohio evaluates mercury-containing items according to the standards in OAC Chapter 3745-51.

Since the mercury categories Recyclights selected are broad in scope, we would need information from Recyclights on each item, not just examples, regarding the type of mercury unit, and how Recyclights will manage or process it, to determine whether it is exempt from or subject to Ohio's hazardous waste requirements. Therefore, this response is specific to those items specifically referenced in Recyclights letter. We feel this clarification is necessary to allow Recyclights to adopt its mercury handling policy accordingly.

- **Thermostats, glass and metal switches, relays, and ampules (*Electric Devices*).** We consider glass and metal switches, relays and ampules (from electric devices) either by-products or commercial products, depending on whether they are unused, off-spec, or used. According to Table I in OAC 3745-51-02, by-products exhibiting a hazardous waste characteristic or commercial (chemical) products are not wastes if Recyclights has them reclaimed. Currently, the same position applies to mercury thermostats. But once Ohio's adopts the Universal Waste Rule(UWR), Recyclights must manage the thermostats under Ohio's UWR standards. If Recyclights intends to dispose of any of these items, Recyclights must characterize them to determine whether they are hazardous wastes. If these items are not hazardous wastes, Ohio does not regulate them under its hazardous waste standards.
- **Thermometers, gauges, manometers, barometers, sphygmomanometers and haunameters (*Mercury Column Devices*).** These are either commercial products or by-products. If Recyclights has them reclaimed, Ohio does not consider them wastes. Recyclights must characterize these items if they intend to dispose of them.
- **Dialyzer and/or bougie tubes (*Scientific/Medical Testing Devices*).** Ohio considers these spent materials. They are wastes if Recyclights reclaims them. [See "Batteries" below].
- **Dental Amalgams.** We classify dental amalgams as scrap metal. If Recyclights reclaims dental amalgam, we do not consider the amalgam subject to our hazardous waste requirements.

George V. Voinovich, Governor  
Nancy P. Hollister, Lt. Governor  
Donald R. Schregardus, Director

Brian R. Golab, Environmental Manager  
Recyclights, Inc.  
September 16, 1996  
Page 2

- **Batteries (flashlight type).** Currently, if Recyclights stores batteries at its facility that are hazardous wastes before they recycle them, they must comply with the requirements in OAC rule 3745-51-06 (C)(1). Basically, this means that Recyclights must obtain a hazardous waste storage permit. If, on the other hand, Recyclights recycles the batteries without storing them before recycling, it will not need a hazardous waste permit but must comply with the requirements in OAC rule 3745-51-06 (C)(2). Basically, these are notification and manifest processing requirements. (See attachment). Ohio will require Recyclights to manage these types of batteries under its UWR requirements once Ohio adopts them.
- **Bullets (*Miscellaneous Items Contaminated with Mercury*).** Based on Recyclights description, we consider the bullet castings scrap metal. [see "Dental Amalgam"].
- **Mercury Laden Powder (from other lamp recyclers).** Ohio considers this material to be either a by-product of commercial (chemical) product.
- **File, wood, metal, sheetrock, soil, rags, and PPE (*Mercury Debris*).** We need more information on the source, types, and composition of these items. Some of these items could be contaminated with listed hazardous wastes. Some may be spent materials, not by-products or commercial products. We suggest that Recyclights carefully evaluate these items before making a decision whether or not to accept and recycle them. If necessary, contact us for assistance.

Again, if you need additional assistance, contact either me at (614)644-2934 or Jeff Mayhugh at (614)644-2950.

Sincerely,

*Arthur L. Coleman, Jr.*

Arthur L. Coleman, Jr.  
Technical Support Unit  
Division of Hazardous Waste Management

~~wp61ALC.kg.gcd:bb~~

Attachment

cc: Wendy Miller, TSU, DHWM  
Lundy Adelsberger, DHWM, CDO



2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

April 19, 2001

RE: AMERICAN RECYCLING CO., LTD.  
OHD000720110  
CUYAHOGA COUNTY

Mr. Drew Koler  
American Recycling Company, LTD.  
P.O. Box #27486  
Cleveland, Ohio 44127-0486

CERTIFIED MAIL

Dear Mr. Koler:

Thank you for cooperating on March 12, 2001 when Rose Connelly, Randy Ohlemacher and I visited American Recycling Company, Ltd. (ARC) at 3203 W. 71<sup>st</sup> Street in Cleveland, Ohio. We had originally come on March 8, 2001, but you stated you could not meet with us that day so we arranged to come back on the 12<sup>th</sup>. We visited ARC to determine how lamps are being managed, how each product of the recycling/dismantling operation is being used, how materials are being handled on site, and what quantities of lamps and other materials are being handled. We did not conduct a complete hazardous waste compliance evaluation inspection but we did discover several **significant violations** during our visit.

We understand ARC is a recycling company that accepts primarily fluorescent and high intensity discharge lamps. ARC also accepts and then serves as a broker for other items such as batteries, keyboards, computers, and switches. About 25000 lamps are received per month and 100% of these are recycled. The lamps are received with non-hazardous waste manifests or bills of lading at a loading dock which is shared with the occupant of the adjacent leased space in the same building. As lamps come in they are visually inspected. If lamps are broken, they are transferred to a steel drum with a lid. The lamps are secured onto a pallet and staged close to the processing equipment. They are processed in the order received. A fork lift is used to lift the pallets to the elevated feed platform. The lamps are placed on an inspection table where they are inspected and counted prior to entering the feed chute of the system. The lamp crushing system is under negative air pressure as it separates the lamps into the components of glass, end caps and phosphor powder. The glass continues through the system for further separation. It is screened on a shaker and separated into sand-like fines and larger pieces of glass. Glass and end caps are collected in large, heavy-walled, corrugated boxes. Phosphor powder and glass fines are collected in fifty-five gallon drums. High efficiency filters are located before the exterior exhaust. They have a back cleaning feature and have not been changed since at least February 1999. (These filters will need to be properly evaluated when they are removed to determine if they are a hazardous waste.)



The glass is given or sold at a very low price to be reused for fiberglass insulation. Other reuses such as art glass and synthetic granite wall surfacing are being considered. ARC has sampled the glass and has had a toxicity characteristic leaching procedure (TCLP) test performed on it. The glass was determined to be non-hazardous. End caps go to a broker in Cleveland that sells them to steel mills for recycling. The phosphor powder has been accumulating in drums and a known recycling use has not yet been found. You acknowledged the phosphor powder would be a D009 hazardous waste because of its mercury content if sent off-site as a waste. One drum of this waste was manifested off-site on March 18, 1998 as a hazardous waste from your former site at 6701 Hubbard Ave. in Cleveland to a mercury treatment facility. Approximately 74 drums of this waste are being stored in your facility. You estimated that approximately one drum per month of this waste is generated and most of this stored waste was brought over from the previous location.

We found the following violations of Ohio's hazardous waste regulations and laws.

1. **Storage of a Hazardous Waste at an Unpermitted Facility and Transporting a Hazardous Waste to an Unpermitted Facility - Ohio Revised Code (ORC) 3734.02(F)**

According to Ohio Administrative Code (OAC) rule 3745-51-02(B), materials are wastes when they are accumulated or stored before or in lieu of being disposed. The mercury contaminated phosphor materials are wastes because they have been accumulated in lieu of being disposed. One drum was manifested as a hazardous waste in 1998 but none since. ORC 3734.02(F) prohibits any person from storing a hazardous waste at a facility that does not have a hazardous waste permit. These wastes have been accumulated for over six years, based on 74 drums being stored with a generation rate of one drum per month. The current and the previous facilities do not have a hazardous waste permit and therefore these wastes have been illegally stored at the current location since February 1999.

Also ORC 3734.02(F) prohibits any person from transporting or causing to be transported hazardous waste to an unpermitted facility. ARC transported, or caused to be transported, approximately 50 drums of the mercury contaminated phosphor waste illegally from its previous location to the current location in February 1999.

**ARC must immediately arrange for the proper transportation and treatment or disposal of these wastes.** Please submit copies of manifests to me within 30 days of the date of this letter showing that these wastes have been removed from the site. Also submit a written explanation, within 30 days of the date of this letter, describing how these wastes will be managed as they continue to be generated.

Be advised that since ARC has accumulated hazardous waste for over 90 days at this facility, it is the operator of a storage facility according to OAC rule 3745-52-34, and is subject to the requirements of rules 3745-50-40 to 3745-50-62, 3745-54 to 57, and 3745-65 to 3745-69. Please inform me, within 30 days of the date of this letter, of any efforts you have taken to comply with any of these rules.

**2. Waste Evaluation - OAC rule 3745-52-11**

ARC failed to evaluate the waste solvent generated from its former ballast recycling operation, or other operations, to determine if it is a hazardous waste. At the time of the inspection, ARC was accumulating the waste solvent in ten 55-gallon drums in a northeast room of the warehouse, behind a hanging blue tarp. Unevaluated waste solvent was also located outside of the blue tarp, on the east side of the warehouse. Some of these containers were labeled "used solvent" and some were not labeled but acknowledged to be used solvent. A material safety data sheet for this solvent showed the original flash point was 120 degrees Fahrenheit.

ARC must immediately evaluate its waste solvent to determine if it is a listed or characteristic hazardous waste pursuant to OAC rule 3745-52-11. We are requesting that you notify us at least five business days in advance of any sampling of these solvents, so that we can be present when you sample. You indicated you would dispose of all solvents properly at Chemical Solvents, a permitted hazardous waste facility. Within 30 days of the date of this letter, submit manifests showing that this waste has been properly removed from the site.

We have the following concerns with your facility:

During the entrance interview you told us that phosphor powder generated during the lamp recycling operations could potentially be incorporated into building materials such as blocks. You indicated the powder would not be taking the place of a needed ingredient. Be advised this would not constitute legitimate recycling, and therefore the powder would still be considered a hazardous waste and need to be managed as such.

During our tour of your facility you verified that you are storing over 300 drums of PCB and non-PCB ballasts. These drums were stacked 4 pallets high, with no aisle space. These ballasts were intended to be recycled using ARC's ballast recycling equipment at its former location. You do not perform ballast recycling at your present site. Most of the 300 drums were brought over from your previous site in February 1999 and you have no immediate plans to manage these containers. We have notified Kenneth Zolnierczyk at USEPA Region 5 and will be following up with him regarding your PCB waste.

AMERICAN RECYCLING CO., LTD.  
APRIL 19, 2001  
PAGE - 4 -

During the tour we noticed floor drains in the area where the phosphor waste was being stored. You indicated that you would confirm with your landlord that the drain lines have been plugged.

Enclosed you will find a copy of the checklist completed during our visit. A copy of the hazardous waste rules and laws can be found on our web site at [www.epa.state.oh.us](http://www.epa.state.oh.us). If you should have any questions or need any assistance, please feel free to contact me at (330) 963-1226. Please submit the above requested items to my attention at the northeast district office.

The absence of listing a specific deficiency in this letter does not relieve ARC from the responsibility to comply with all applicable hazardous waste regulations.

Sincerely,



Sheryl K. Slone, P.E.  
Environmental Engineer  
Division of Hazardous Waste Management

SKS:ddw

cc: Jeff Mayhugh, IT&TS, DHWM  
Rose Connelly, IT&TS, DHWM  
Randy Ohlemacher, CAS, DHWM  
Natalie Oryshkewych, NEDO, DHWM  
Linda Neumann, CO, DHWM  
David Hearne, Cleveland Bureau of Air Pollution Control

Enclosure

Fluorescent Lamp Recycler Site Visits

Company: American Recycling Company, Ltd. EPA ID#: OHD000720110  
Street: 3203 W. 71<sup>st</sup> Street City: Cleveland  
County: Cuyahoga State: Ohio Zip: 44102  
Mailing Address: P.O. Box 27486 Cleveland, Ohio 44127-0486  
(If different from above)  
Telephone: 216-281-9200 Fax #: 216-281-5505  
Owner/ Operator: Advanced Handling & Storage Inc. Joe Cala 651-4477 or 440-248-6202  
(If different from above)  
Street: same  
City: \_\_\_\_\_ State: Ohio Zip: \_\_\_\_\_  
Inspection Date(s): March 12, 2001 Time(s): 11:45 a.m. to 4:20 p.m.  
Inspection Announced?  Yes  NO If so, how much advance notice given? 4 days

	<u>Name</u>	<u>Affiliation</u>	<u>Telephone</u>
Inspectors:	<u>Rose Connelly</u>	<u>Ohio EPA DHWM, CO</u>	<u>614-644-2667</u>
	<u>Randy Ohlemacher</u>	<u>Ohio EPA DHWM, CO</u>	<u>614-644-2971</u>
	<u>Sherry Slone</u>	<u>Ohio EPA DHWM, NEDO</u>	<u>330-963-1226</u>
Facility Representative:	<u>Drew Koler</u>	<u>Environmental Coordinator</u>	<u>216-281-9200</u>

**NOTE: The four major goals of fluorescent lamp recycler site visits are:**

- 1. Determine how the lamps are being managed;**
- 2. Determine how each product of the recycler/dismantler operation is being used;**
- 3. Determine how all handlers are managing materials on site; and**
- 4. Determine the quantities of lamps and other materials which are being recycled.**

## STORAGE (UPON RECEIP

Upon receipt how are lamps being stored?

1. Are they stored in containers? Yes or No (describe the type of container(s) used)

*Lamps are received in the original lamp boxes and then palletized, and stacked prior to processing.*

2. Is storage inside/outside? (circle the applicable response). Describe where at the facility containers are being stored.

*Lamps are received at facility's loading dock and stored inside the facility. Lamps are stored at various locations within the facility. Most lamps are in boxes on pallets, but some boxes are stored on the floor.*

3. Does storage occur on an impermeable surface? Yes or No, please describe.

*Lamps are stored on pallets on the facility's concrete floor.*

4. Is storage in areas where an environment release may cause harm? (Such as floor drains, ponds, wells)? Yes or No, please describe.

*There are three visible floor drains within the facility. ARC has been told by building owner that drains are not functional.*

5. Are bulbs broken when received? Yes or No, please describe.

*Yes, ARC does accept broken bulbs. Broken bulbs are placed in an open top w/bolt ring cover US DOT approved steel drum. ARC will supply broken lamp drums if necessary. Broken bulbs are managed first.*

6. Are broken bulbs placed on the ground. Yes or No, please describe.

*Broken bulbs are stored in 55 gallon steel drums that are placed on pallets.*

7. How are broken bulbs handled?

*Broken bulbs are segregated by type and placed in drums.*

## RECYCLING PROCESS

1. Provide a detailed diagram describing the process(es). The information provided should include the technology used, materials going into the process, waste generation points, end points, etc.

*ARC receives shipments of lamps at facility's loading dock and performs an initial visual inspection. Shipment is off-loaded onto pallets or onto the floor. If bulbs are broken, they are set aside to be managed first. ARC maintains a first in, first out processing rule, but manages broken bulbs before any other type. If containers have not already been placed on pallets, they are placed on pallets at this time and then moved to an area where they will be kept prior to processing. When it is time for lamps to be processed, a forklift transfers the pallet onto a raised platform. Containers of lamps are opened onto an inspection table where they are visually inspected before being fed into the lamp crushing system. Lamps are tallied before entering into the mouth of the system. The lamp crushing system is under negative air pressure as it separates the lamps into glass, end caps and phosphor powder. The glass continues through the system for further separation; it is screened on a shaker and separated into sand-like fines and larger pieces of glass. Glass is collected in large, heavy-walled, corrugated Gaylord boxes. End caps are also collected in similar Gaylord boxes. Phosphor powder is collected in fifty-five gallon drums. ARC maintains that they recently changed their crushing process so that powder is better separated from glass pieces. ARC has not shipped phosphor off-site since they've moved to their present location (notified as Small Quantity Generator (SQG) as of May 1999).*

2. What components are being recycled? (Include a list of the recycled components).

*Glass, glass fines and end caps*

3. How is each component being recycled?

*Glass and fines are shipped to Strategic Materials in Indianapolis, Indiana to be used in production of fiberglass insulation for commercial buildings.*

*End caps are shipped to Chemetco in Cleveland, Ohio who then sells them to steel mills for smelting. ARC is unsure what is done with end caps after smelting.*

4. What wastes are generated from the recycling process?

*Phosphor powder containing mercury.*

5. What happens to these wastes? (are they evaluated?, properly managed?, where are they going?)

*Phosphor powder has not been evaluated and has not been shipped off site from ARC's present location. ARC maintains that they must reprocess some of the powder to further remove glass from powder. Drums of powder have been accumulating since before ARC moved to present address. There are approximately 75 drums of phosphor powder stored on-site.*

*End caps have not been evaluated.*

Glass has been evaluated for TCLP at least once ( EnviroMatrix, Inc. 2/5/01).

6. What quantities of lamps are received? (provide the number or weight of the lamps received, if possible)

*ARC receives approximately 25,000 bulbs per month and shipments are accepted daily.*

7. What percentage of the lamps received are recycled?

*One hundred percent of lamps received are recycled. Some lamps are harder to process. These are set aside until enough are collected to do all at once (example: Shatter-shield type lamps). ARC contracts temporary drivers to pick up scheduled shipments when necessary.*

8. Are other mercury containing items accepted? If so, list the other items and include quantities accepted and include a description of the recycling process.

*Batteries - consolidated and shipped to R.H. Welf & Associates where they are recycled.*

*Computers, CRTs, keyboards - consolidated and shipped to Great Lakes Electronics Recycling in Detroit, MI.*

*Mercury switches - consolidated and either sent to Mercury Waste Solution's retort operation in Union Grove or to Chemtron to be brokered for unknown use/disposal.*

9. Are other materials accepted for recycling? If so, list those items and include quantities accepted.

*ARC previously accepted and recycled ballasts. They no longer offer this service.*

10. How long has the fluorescent lamp recycler been in operation?

*ARC has been at this address since February 1999, but didn't began operations until May 1999.*

11. Have samples been collected and analyzed? Yes or No, if yes please describe how the samples were collected, prepared and analyzed. Include a copy of available analytical results.

*Glass has been tested for TCLP on February 5, 2001 by EnviroMatrix, Inc. Results are attached.*

*Phosphor powder has not been analyzed.*

**OTHER:**

ARC submitted a Pollution Prevention loan application in 1995. ARC was approved in 1995, to install and operate light ballast and lamp recycling systems that will significantly reduce the hazardous and toxic pollutants listed above that would otherwise be released into the environment. ARC received this loan in August of 1997 and it is still in payment.

ARC notified as a SQG on May 3, 1999. Reported characteristic wastes on site are: D001, D005, D006, D008, D009. Reported listed wastes on site are: U028 AND U151. PCBs were also reported to be managed on-site. ARC is maintaining their generator status although they claim that they are not currently generating hazardous waste.

ARC indicated that they got a verbal okay from Northeast District Office (NEDO), Division of Air Pollution Control for their lamp crushing operation's negative air pressure system. ARC said that the emissions unit is a DeMinimis unit, which means that emissions of an air pollutant from the source is limited to less than ten pounds per day or restricts the operation of the source in a manner equivalent to an emission limit of less than ten pounds per day. ARC said they worked with Dennis Bush and Nancy Meli, in NEDO regarding this, but ARC does not have documentation to support this claim. ARC has not changed filters in their negative air pressure system since they have been at this address.

There is a blue tarp hanging in the northeast corner of the facility where ten drums of unknown solvent are stored. These drums have not been evaluated, but ARC maintains that some of them contain a kerosene based solvent that was used for the ballast recycling system parts washer.

Over 300 drums of PCB ballasts were stacked on pallets four and five high, and five deep. Drums are in deteriorating condition. All have been brought to this site from former facility. At this time, ARC does not have plans together for disposal of this material.

September 1994

# The Management of Fluorescent Lamps and PCB Ballasts in Ohio

Currently, electric lighting consumes approximately 25 percent of the electricity generated annually in the United States. U.S. EPA initiated the "Green Lights" program in 1991 to encourage industries and businesses to replace out-dated lighting with more efficient lighting. Energy-efficient lighting not only saves money and energy, but dramatically reduces the level of pollutants such as sulfur dioxide, nitrogen oxide, and carbon dioxide released into the atmosphere by fossil fuel-burning power plants. In addition, pending and future federal legislation may require business and government sectors to use efficient and reliable lighting.

Although fluorescent lamps are long lasting, they eventually must be discarded. In addition, lamp upgrading may require retrofitting, rewiring or replacement of outdated or energy-demanding lighting, all of which contribute to the waste stream. It is estimated that over 450 million fluorescent lamps are disposed of each year in the United States.

In the context of this guidance, "fluorescent lamp" applies generically to mercury-containing lamps, including metal halide, high-pressure sodium, and mercury-vapor lamps.

Lamps contain about 40 milligrams of elemental mercury, depending on the brand and manufacture date. Mercury-containing lamps also may contain lead and small amounts of antimony, cadmium, and manganese. Some of these compounds are reported to have moderate to severe toxicity.

Essential for proper operation of fluorescent lamps are integral units known as ballasts or capacitors.

Fluorescent lamp ballasts are either "dry" capacitors or "wet" capacitors. Wet capacitors, produced before 1979, contain a fluid or liquid insulation medium such as polychlorinated biphenyl (PCB), which is toxic, thus complicating the management of fluorescent lamps. It is estimated that millions of ballasts in existence contain PCBs. The production of PCB-containing ballasts was discontinued after 1979. Dry capacitors do not contain a fluid insulation medium.

Although manufacturers are eliminating or reducing toxic chemicals in their lamps and ballasts, lamps still pose a threat to human health and the environment since many models containing toxic materials are still in operation or available for purchase.

In addition to being toxic, PCBs and mercury accumulate in human and

animal tissue and the environment. If released into the environment, mercury can become transformed into more toxic forms and concentrate in food chains, where humans become exposed through eating mercury-contaminated food.

There is also the potential for PCBs to form highly toxic dioxin compounds under certain combustion conditions.

## Management of Fluorescent Lamps

When discarded, fluorescent lamps become subject to the requirements of the Resource Conservation and Recovery Act (RCRA). RCRA regulates the management of hazardous waste from its generation through disposal. Fluorescent lamps destined for disposal are considered solid waste and, as with any solid waste, the generator must determine if the lamps are hazardous waste.

A waste may be hazardous if it exhibits a characteristic, as identified in Rules 3745-51-20 to 3745-51-24 of the Ohio Administrative code, or if it is listed in OAC Rules 3745-51-30 to 3745-51-33. The four characteristics of a hazardous waste are ignitability, reactivity,

corrosivity, and toxicity. Although fluorescent lamps are not listed hazardous wastes, they may exhibit the characteristic of toxicity, due primarily to their mercury content, subjecting them to Ohio's hazardous waste rules. **It is important to note that hazardous waste produced by homeowners is not subject to Ohio's hazardous waste regulations.**

## Why is the Characteristic of Toxicity Important?

The Toxicity Characteristic Leaching Procedure (TCLP) is used to determine if solid wastes exhibit the characteristic of toxicity. When the TCLP results indicate a level of mercury greater than 0.2 parts per million (ppm), the fluorescent lamps exhibit the toxicity characteristic and are, therefore, a hazardous waste. A generator must use either his or her knowledge of the waste or the actual TCLP test to determine if the waste is hazardous. TCLP results often vary for fluorescent lamps, depending on several factors, including how the sample was collected and the TCLP methodology.

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# The Management of Fluorescent Lamps and PCB Ballasts in Ohio

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## What are your responsibilities if your fluorescent lamps are hazardous waste?

In Ohio, used and off-specification (i.e. defective) lamps exhibiting a hazardous characteristic are considered characteristic by-products. Unused lamps are considered commercial chemical products. According to OAC Rule 3745-51-02(C)(3), characteristic by-products and commercial chemical products destined for reclamation are not considered waste, and do not require compliance with Ohio's hazardous waste rules. However, lamps sent to a hazardous waste treatment, storage, or disposal facility (TSDF) which will not be reclaiming them must follow the appropriate hazardous waste rules or regulations, including obtaining a hazardous waste ID number, use of a hazardous waste manifest, or use of a hazardous waste transporter. If you plan to dispose of your lamps in a municipal solid waste stream, ensure that you have the appropriate documentation indicating that your lamps are not hazardous waste.

It is important that lamps destined for recycling are recycled in reasonable time. Recyclable lamps may become regulated hazardous wastes if they are "accumulated speculatively" as defined in OAC 3745-51-01(C)(8). If at least 75 percent of the lamps

present at the beginning of a calendar year are recycled, a facility is not considered to be speculatively accumulating the fluorescent lamps.

U.S. EPA currently is exploring several options to reduce the regulatory burden on businesses replacing inefficient lamps. Many states also have their own rules governing fluorescent lamps. If you send lamps out of state, you should contact the destination state's environmental protection agency to become familiar with their rules.

For general guidance, the U.S. EPA offers Lighting Waste Disposal, a publication providing information on federal and state requirements for managing mercury containing lamps and ballasts. Topics include cost estimates, environmental impacts of disposal, agency contacts, and an information hotline. For a copy or details on Lighting Waste Disposal, contact the Green Lights/Energy Hotline, (202) 775-6650, or fax your request to (202) 775-6680.

## Fluorescent Lamp Recycling

Virtually an entire fluorescent lamp can be recycled, including end caps, glass tube, wire, mercury, and phosphor powder. The recycled glass can be used as feedstock in the manufacture of glass products, or as cement filler. The

metallic portion often is sold as scrap. Retorting recovers mercury which, after further purification, is often reused in thermometers, barometers, and electronic devices.

Fluorescent lamp recycling plants are diverse in their activities. Recycling capacity ranges from a few hundred to several thousand lamps daily. In a typical operation, lamps are crushed or pulverized, producing primarily glass, metal, and mercury-bound phosphor powder.

In Ohio, recycling plants are not required to obtain a hazardous waste permit to recycle fluorescent lamps but they are responsible for characterizing any waste they generate and manage it accordingly. Also, they may be required to obtain an air permit from the Ohio EPA Division of Air Pollution Control (DAPC).

For more information on hazardous waste requirements, contact the Ohio EPA, DHWM, at (614) 644-2956. DAPC can be reached at (614) 644-2270 if you have questions about possible mercury emissions.

## Management of Ballasts

The primary law regulating PCBs is the Toxic Substance Control Act (TSCA). TSCA regulates the manufacture, sale, use, and disposal of certain chemical substances, and requires

testing, tracking, pre-screening, and record-keeping of chemical products. TSCA also regulates the disposal of PCBs.

In specific situations, ballasts are exempt from TSCA requirements. For instance, TSCA does not regulate the disposal of a non-leaking, Small Capacitors. A fluorescent lamp ballast is classified as a Small Capacitor if it contains less than 3 pounds of dielectric fluid and/or has a total volume of less than 100 cubic inches. A lighting ballast is also considered a Small Capacitor if it has a volume between 100 and 200 cubic inches and has a total weight of less than nine pounds.

Small Capacitors are subject to TSCA under two conditions. If the Small Capacitor is leaking PCB's, it is regulated as a PCB Article, as defined in 40 CFR 761.3 of the federal PCB regulations. PCB Articles with concentrations at 500 parts per million (ppm) or greater must be disposed of in an incinerator complying with 40 CFR 761.70, or in a chemical waste landfill complying with 40 CFR 761.75. PCB Articles disposed of at a chemical waste landfill must be drained of all free flowing PCBs and the drained PCBs greater than 500 ppm must be disposed of by incineration meeting the specifications in 40 CFR 761.70.

In the second condition, Small Capacitors (intact or leaking) owned by any person who manufactures or at any time manufactured PCB-containing capacitors or PCB-containing equipment defined in 40 CFR 761.60(b)(2)(iv), must ensure delivery of the PCB-containing capacitor to a TSCA-permitted incinerator for disposal. PCB-containing ballasts also may be subject to regulation under the **Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)**. CERCLA has many features including establishing reportable levels for certain substances and a notification requirement for release of these substances. PCBs are a hazardous substance under CERCLA reportable quantity requirements and releases exceeding one pound during a 24-hour period must be reported to the National Response Center (NRC), as specified in Section 102 (a) of CERCLA. For information on reporting requirements, contact NRC at 1-800-424-8802.

### **Disposal of Non-hazardous, Non-leaking, PCB-Containing Ballasts**

There are several options for managing non-leaking, small capacitor ballasts. These options include:

### **Solid waste landfill**

Often, landfill operators will require that PCB-containing ballasts be drained before landfilling and the drained PCB material then must be sent to a PCB incinerator for disposal. This method, if chosen, could heighten liability should the landfill become subject to clean-up in the future. This method also may require special reporting procedures to the appropriate regulatory authority. It is recommended that non-leaking, intact ballasts not be disposed of in large quantities at a solid waste landfill because of the potential for cross-media transfer of pollutants and the possibility of nullifying the environmental benefits of lamp replacement.

### **PCB Incinerator**

As previously stated, whole ballast incineration in a TSCA-permitted incinerator is mandated for leaking PCB-containing ballasts. In addition, non-leaking PCB ballasts may be disposed of by incineration. However, the main drawback with incineration of intact ballasts is that recyclable material is destroyed, sometimes at high cost.

### **Recycling**

encourages recycling, where possible. PCB-containing ballast recycling is actually a three-step process which separates the PCB capacitor from the uncontaminated materials.

PCB materials are sent for destruction in a PCB incinerator, and the uncontaminated metals (copper, steel, and aluminum) are recycled.

For more information on TSCA requirements, contact the Ohio EPA, Division of Emergency and Remedial Response (DERR), PCB Program, (614) 644-3060, for assistance. Also, contact DERR for details on reportable quantity requirements at (614) 644-2924.

### **Pollution Prevention and the Green Lights Program**

Ohio EPA supports pollution prevention and environmentally-sound recycling of solid and hazardous waste and other pollutants. The Ohio EPA Office of Pollution Prevention (OPP) is playing a leadership role in implementing the Green Lights Program. The U.S. EPA-sponsored Green Lights Program is a unique public/private partnership that demonstrates that energy savings and environmental protection need not be mutually exclusive. Green Lights addresses the critical national issues of energy efficiency, pollution prevention, environmental protection, and economic competitiveness. The program invites businesses to voluntarily

explore the many benefits of energy-efficient lighting. Ohio is the first state in U.S. EPA Region V to join the Green Lights Program. Ohio is committed to complete lighting upgrades in all state-owned buildings and to promote the Green Lights Program to businesses in Ohio.

For a packet of Ohio EPA's Green Lights information, contact OPP at (614) 644-3469, or U.S. EPA's Green Lights Hotline at (202) 775-6650.

### **Tips On Managing Your Fluorescent Lamps And Ballasts**

- Recycle ballasts and fluorescent lamps where possible.
- It is recommended that lamps not be crushed. The practice of breaking lamps may save space and facilitate transportation but also can cause exposure to toxic levels of mercury. Also, mercury recovery levels are lower in broken or crushed units.
- Segregate ballasts containing PCBs (and other toxic compounds) from other ballasts.
- Leaking PCB-containing ballasts must be disposed of as regulated hazardous substances in a TSCA-permitted incinerator, or chemical landfill. If a landfill is chosen, PCBs must be removed prior to disposal

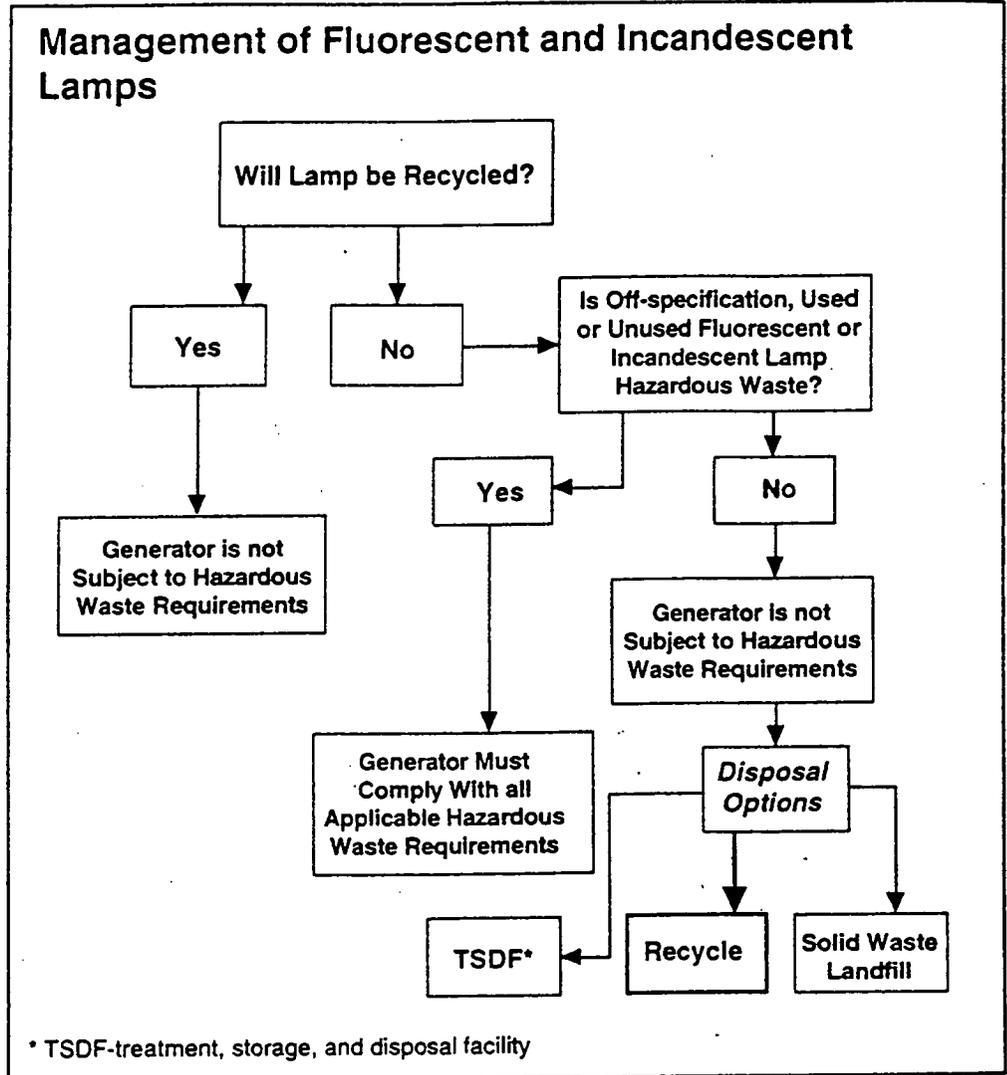
## The Management of Fluorescent Lamps and PCB Ballasts in Ohio

of the capacitor. Intact PCB containing ballasts also may be disposed of by incineration or at a chemical landfill.

- Store tubes and ballasts in a secure area, limiting access to personnel qualified to handle these materials. It is recommended that a tracking log be established, tracking lamps and ballasts entering and exiting the area. Lamps and ballasts should be carefully arranged and stored, protecting against accidental breakage or damage. Lamp components and the storage area should be appropriately labeled.

- Before shipping, put lamps and ballasts in protective packaging. The original container or box may be sufficient for lamps. Hire a reputable transporter or carrier to transport lamp components to the receiving facility. Maintain records of all invoices or receipts from the transporter and receiving facility.

- Residues from broken tubes and ballasts must be promptly removed and appropriately discarded. It is essential that personnel cleaning up debris have appropriate training and wear protective clothing.



- Debris from broken lamps should be carefully removed and containerized. Be sure to segregate lamps from ballasts.

This fact sheet is a joint effort between the Office of Pollution Prevention (OPP) and the Division of Hazardous Waste Management (DHWM). For a listing of OPP and DHWM publications, contact (614) 644-2956.

# Ohio Environmental Protection Agency

Division of Hazardous Waste Management

122 S. Front Street, P.O. Box 1049

Columbus, Ohio 43216-1049

(614) 644-2917

Fax: (614) 728-1245

Visit our web site at: [www.epa.ohio.gov/dhwm](http://www.epa.ohio.gov/dhwm)

FAX TRANSMISSION COVER SHEET

Date: 12/3/97

To: Drew Kohler

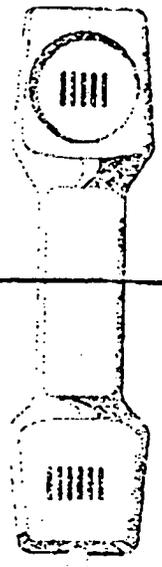
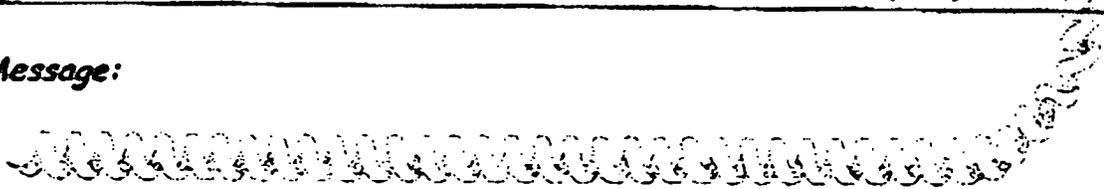
Fax: 216-281-5505

Re:

Sender: Art Coleman

YOU SHOULD RECEIVE \_\_\_\_\_ PAGE(S), INCLUDING THIS COVER SHEET.  
IF YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL (614) 644-2917.

Message:



11/18/98  
2:54 pm

CONTAINER RECYCLING ALLIANCE  
INBOUND BY CUSTOMER WITH FREIGHT  
ZSHPLINI-3

FROM: 10/01/98  
TO : 11/30/98

DATE	B-O-L	VOID	CUSTOMER	COLOR	POUNDS	TONS	\$/TON	\$ PAID	FREIGHT	TOTAL PAYMENT	ADJUST \$/TON
-----											
PLANT NUMBER: 280280											
11/05/98	20577		AMERICAN RECYCLING	PLINT	27,320	13.66	0.00	0.00	273.20	273.20	20.00
11/09/98	20617		AMERICAN RECYCLING	PLINT	29,940	14.97	0.00	0.00	299.40	299.40	20.00
11/09/98	20618		AMERICAN RECYCLING	PLINT	31,940	15.97	0.00	0.00	319.40	319.40	20.00
11/11/98	20640		AMERICAN RECYCLING	PLINT	25,560	12.78	0.00	0.00	255.60	255.60	20.00
11/13/98	20686		AMERICAN RECYCLING	PLINT	30,120	15.06	0.00	0.00	301.20	301.20	20.00
			TOTAL AMERREC:		144,880	72.44		0.00	1,448.80	1,448.80	20.00
			GRAND TOTAL:		144,880	72.44		0.00	1,448.80	1,448.80	20.00

Carrier's Name: BONES  
RECEIVED, subject to the classifications and tariffs in effect

ASTORTAIN  
rate of the issue of this Bill of lading.

Carrier's No. \_\_\_\_\_

at THURSDAY (Date) 1/21 1999 FROM AMERICAN RECYCLING

(The property described below in apparent and order, except as noted contents and condition of contents of packages unknown, marked, consigned, and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, with its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Freight Bill of Lading set forth in the Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.)

Consigned TO CONTAINER RECYCLING ALLIACE  
(Mail or street address for purposes of notification only)  
On Collect on Delivery shipments, the letters "C.O.D." must appear before consignee's name or as otherwise provided in item 4.30, Sec 1

Destination 13535 Street TORRENCE AVE. City \_\_\_\_\_  
CHICAGO County \_\_\_\_\_ State ILL. Zip 60633

Route \_\_\_\_\_ Delivery Address ★  
to be filled in only when shipper desires and governing tariffs provide for delivery thereat.

Delivering Carrier \_\_\_\_\_ Car or Vehicle Initials and No. \_\_\_\_\_

Collect on Delivery \$ \_\_\_\_\_ And Remit to \_\_\_\_\_

Street \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

No. Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	Weight (Subject to Correction)	Class or Rate	Check Column
<u>13</u>		<u>GAYLORD BOXES OF RECYCLED FLUORESCENT LAMP GLASS</u>	<u>31,300</u>		

Raymond K. Dushy

\*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight.  
NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_

Shipper, Per \_\_\_\_\_ Agent \_\_\_\_\_  
Permanent post-office address of shipper \_\_\_\_\_ Per \_\_\_\_\_

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of consignor.)  
**C. O. D. Charges to be Paid by**  
 Shipper  Consignee

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received \$ \_\_\_\_\_ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier \_\_\_\_\_  
Per \_\_\_\_\_  
(The signature here acknowledges only the amount prepaid.)  
Charges Advanced \_\_\_\_\_

\*The three containers used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the Uniform Freight Classification and Rule 5 of the National Motor Freight Classification.  
\*Shipper's imprint in lieu of stamp, not a part of bill of lading approved by the Interstate Commerce Commission.

Carrier's Name: **BONES TO TRANSPORTATION**

Carrier's No. \_\_\_\_\_

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of lading.

at \_\_\_\_\_ (Date) **3/30** 19**99** FROM **AMERICAN RECYCLING CO. LTD**

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown, marked, consigned, and destined as shown below, which said company (the word company being understood) throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route, or route, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any part of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Freight Bill of Lading set forth (1) in the Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned TO **CONTAINER RECYCLING ALLIANCE** (Mail or street address for purposes of notification only)  
On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

Destination **CHICAGO** Street \_\_\_\_\_ City \_\_\_\_\_  
County \_\_\_\_\_ State **IL** Zip \_\_\_\_\_

Route \_\_\_\_\_ Delivery Address ★ \_\_\_\_\_  
(\*To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Delivering Carrier \_\_\_\_\_ Car or Vehicle Initials and No. \_\_\_\_\_

Collect on Delivery \$ \_\_\_\_\_ And Remit to \_\_\_\_\_

Street \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

No. Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	Weight (Subject to Correction)	Class or Rate	Check Column
<b>10</b>		<b>GAYLORDS OF RECYCLED LAMP GLASS</b>	<b>2,500 LB</b>		

*Total wt. 40,000-lb*

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignee, the consignee shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of consignee.)  
**C. O. D. Charges to be Paid by**  
 Shipper  Consignee

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received \$ \_\_\_\_\_ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier  
Per \_\_\_\_\_  
(The signature here acknowledges only the amount prepaid.)

Charges Advanced: \_\_\_\_\_

\*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight.  
NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_

*James R. [Signature]*  
Shipper, Per

Agent  
Per \_\_\_\_\_

Permanent post-office address of shipper.

1



**THIS MEMORANDUM**

is an acknowledgment  
a copy or duplicate, c

Bill of Lading has been issued and is not the Original Bill of Lading,  
the property named herein, and is intended solely for filing or record

Shipper's No. \_\_\_\_\_

Carrier's Name: CRMO Trucking

Carrier's No. \_\_\_\_\_

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of lading.

at 3203 W 71st (Date) 6-16-1999 FROM APC

the property described below in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination if it mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Freight Bill of Lading set forth in the Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address for purposes of notification only.)

Consigned TO CONTAINER RECYCLING ALLIANCE  
On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in item 4.30, Sec. 1.

Destination \_\_\_\_\_ Street \_\_\_\_\_ City \_\_\_\_\_  
County CHICAGO, ILL. State 60628 Zip \_\_\_\_\_  
Route \_\_\_\_\_ Delivery Address ★ \_\_\_\_\_  
(\* To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Delivering Carrier \_\_\_\_\_ Car or Vehicle Initials and No. \_\_\_\_\_

Collect on Delivery \$ \_\_\_\_\_ And Remit to \_\_\_\_\_

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of consignor.) \_\_\_\_\_  
**C. O. D. Charges to be Paid by**  
 Shipper  Consignee

If charges are to be prepaid, write or stamp here, "To be Prepaid."

No. Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	Weight (Subject to Correction)	Class or Rate	Check Column
12		Gaylord Boxes of BROKEN GLASS	2,500 - LBS. EA.		
<b>total-wt -</b>			<b>30,000</b>		<b>LBS</b>

Received \$ \_\_\_\_\_ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier \_\_\_\_\_

Per \_\_\_\_\_  
(The signature here acknowledges only the amount prepaid.)

Charges Advanced: \_\_\_\_\_

\* The fibre containers used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the Uniform Freight Classification and Rule 6 of the National Motor Freight Classification.  
† Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight.  
NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_

Shipper, Per [Signature] 6/16/99 Agent \_\_\_\_\_  
Permanent post-office address of shipper: \_\_\_\_\_ Per \_\_\_\_\_

3

Carrier's Name: **BONES TRANSPORTATION**

Carrier's No. **43**

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading.

at \_\_\_\_\_ (Date) **10/15** 19 **99** FROM **ARC - CLEVELAND, OH**

the property described below in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery as shown below, which said company being understood or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination, if on its own railroad, water line, highway, or of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Freight Bill of Lading set forth in the Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned TO **CONTAINER RECYCLING ALLIANCE** (Mail or street address for purposes of notification only.)

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Destination **CHICAGO** Street \_\_\_\_\_ City \_\_\_\_\_  
County \_\_\_\_\_ State **IL** Zip \_\_\_\_\_

Route \_\_\_\_\_ Delivery Address **★** (To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Delivering Carrier \_\_\_\_\_ Car or Vehicle Initials and No. \_\_\_\_\_

Collect on Delivery \$ \_\_\_\_\_ And Remit to \_\_\_\_\_

(Signature of consignor.)

**C. O. D. Charges to be Paid by**  
 Shipper  Consignee

If charges are to be prepaid, write or stamp here, "To be Prepaid."

No. Packages	H.M.	Kind of Package, Description of Articles, Special Marks, and Exceptions	Weight (Subject to Correction)	Class or Rate	Check Column
<b>15</b>		<b>GAYLORD SKINS OF BROKEN GLASS</b>	<b>2,500 LBS</b>		
			<b>NOT 37,500 LBS</b>		

Received \$ \_\_\_\_\_ to apply in payment of the charges on the property described hereon.

Agent or Cashier

Per \_\_\_\_\_ (The signature here acknowledges only the amount prepaid.)

Charges Advanced:

\* The fibre containers used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the Uniform Freight Classification and Rule 5 of the National Motor Freight Classification.  
\* Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

\* If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight.  
NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_

**Randy Rouse** Shipper, Per \_\_\_\_\_

**B. Fox** Agent, Per \_\_\_\_\_

Permanent post-office address of shipper, \_\_\_\_\_

**1**



ACCOUNTING SERVICES  
 5151 SAN FELIPE, SUITE 1400  
 HOUSTON, TX 77056  
 PHONE: (713) 881-5048  
 FAX: (713) 881-5010

WEIGHMASTER CERTIFICATE

No. 13313

WEIGHMASTER: STRATEGIC MATERIAL, INC.  
 WEIGHED AT: 2550 W. MINNESOTA STREET  
 INDIANAPOLIS, IN 46246

Date: 05/18/00  
 Time: 10:43:18  
 In: 08:17:45

Site/Ticket No: A 13313  
 Truck No.: BONES109

*American Recycling*  
 CORP\_10

Account Number: NEWACCT  
 NEWACCT  
 NEWACCT  
 NEWACCT  
 NEWACCT. 00 0

Material	Grade	Quantity	Total
OTHER	2	39320 L	

Trk Lic:  
 Job No.: T00000 #Lds: 2085  
 Job Wt.: 72379.47 TONS  
 Job Nme.: NO FREIGHT  
 Job Loc: NO FREIGHT

74320(S) Lbs Grs  
 35000(K) Lbs Tare  
 39320 Lbs. Net  
 19.66 Tons Net

Total:

*Bones trans line*

Load IN

*[Handwritten Signature]*  
 SIGNATURE

*[Handwritten Signature]*  
 DEBEN SCHUHL  
 DEPUTY WEIGHMASTER



WEIGHING SERVICES  
SAN FELIPE, SUITE 1400  
HOUSTON, TX 77056  
PHONE: (713) 881-5048  
FAX: (713) 881-5010

WEIGHMASTER CERTIFICATE

No. 13633

WEIGHMASTER: STRATEGIC MATERIAL, INC.  
WEIGHED AT: 2550 W. MINNESOTA STREET  
INDIANAPOLIS, IN 46241

Date: 06/09/00  
Time: 09:09:25  
In: 07:46:01

Site/Ticket No: A 13633  
Truck No.: BONESTRN GOOD961

CORP\_10  
Account Number: NC12504A  
AMERICAN RECYCLING  
P.O. BOX 27486

Material Grade Quantity  
OTHER 2 47720 J

CLEVELAND, OH 44127

Trk Lic:  
Job No.: T00000 #Lds: 2213 80380(S) Lbs Grs  
Job Wt.: 75677.96 TONS 32660(K) Lbs Tare  
Job Nmc.: NO FREIGHT 47720 Lbs. Net  
Job Loc: NO FREIGHT 23.86 Tons Nct

Total:

Load IN

*Jack Sharp*  
SIGNATURE

*Dean Schmidt*  
AUTHORITY SIGNATURE  
DEPUTY WEIGHMASTER



Strategic MATERIALS INC.

INCOMING  
QUALITY INSPECTION CHECK  
INSPECCION DE CALIDAD

DATE

6-9

WEIGHT TICKET NO.

13633

CUSTOMER CLIENTE

*Raytheon*

Color: First (Blanco)

Amber (Cafe)

Green (Verde)

3 Mix (Tres colores)

MWP (Placa)

Clear Plate

Other

Rating

Description

1 Load is generally whole bottle with no ceramic, porcelain, visionware or rock found. Load contains no other contamination (this includes cardboard, metal caps, plastic containers, magazines, etc.).

2 Load is generally whole bottle with no ceramic, porcelain, visionware or rock found. Load has minimal amounts of non-glass material contamination (see "1" above).

3 Load contains a minimal amount of ceramic, porcelain, visionware, or rock. Load may also contain excessive quantities of non-glass contamination or may also contain too much glass of colors other than that being delivered. Load is subject to a cleaning fee.

4 Load contains an excessive amount of ceramic, porcelain, visionware or rock. The load may also contain excessive quantities of other contamination and/or too much glass of colors other than that being delivered. Load will be charged a cleaning fee or possibly rejected.

Comments:

INSPECTION OF RECYCLABLES AND VERIFICATION OF GRADING

- No. of Items Found
- Metal
- Visionware
- Ceramics
- Stones/Rock
- Milk Glass
- Pyroceram
- Other

- Photos Attached?  Yes  No
- Supplier Notified?  Yes  No
- Load Uncontaminated
- Please consider this report to be your written warning.
- Cleaning Fee of \$ \_\_\_\_\_ charged.
- Total charge is \$ \_\_\_\_\_
- Load downgraded to \_\_\_\_\_ at price of \$ \_\_\_\_\_
- Load Rejected

Inspected by: *DS*

Quality Control Strategic Materials, Inc.



ACCOUNTING SERVICES  
15990 N. BARKERS LANDING, SUITE 150  
HOUSTON, TX 77079  
PHONE: (800) 385-7275  
FAX: (800) 385-7516

WEIGHMASTER CERTIFICATE

# 2368

WEIGHMASTER: STRATEGIC MATERIAL, INC.  
WEIGHED AT: 2550 W. MINNESOTA STREET  
INDIANAPOLIS, IN 46241

Date: 09/01/00 Site/Ticket No: A 188  
Time: 14:59:37 Truck No.: BONESTRN BONEST1  
In: 14:14:

CORP\_10  
Account Number: NC12504A  
AMERICAN RECYCLING  
P.O. BOX 27486

Material	Grade	Quantity	Total
OTHER	2	46960 L	

CLEVELAND, OH 44127  
Trk Lic:  
Job No.: T00000 #Lds: 2617  
Job Wt.: 87033.86 TONS  
Job Nme.: NO FREIGHT  
Job Loc: NO FREIGHT

83400(S) Lbs Grs  
36440(K) Lbs Tare  
46960 lbs. Net  
23.48 Tons Net

Total:

Load IN

*[Handwritten Signature]*

*[Handwritten Signature]*

SIGNATURE

AUTHORIZED SIGNATURE

DEPUTY WEIGHMASTER



ACCOUNTING SERVICES  
 15990 N. BARKERS LANDING, SUITE 150  
 HOUSTON, TX 77079  
 PHONE: (800) 385-7275  
 FAX: (800) 385-7515

WEIGHMASTER CERTIFICATE

No. 01339

WEIGHMASTER: STRATEGIC MATERIAL, INC.  
 WEIGHED AT: 2550 W. MINNESOTA STREET  
 INDIANAPOLIS, IN 46241

Date: 01/19/01 Site/Ticket No: A 1339  
 Time: 08:37:56 Truck No.: BONE6 BONE6  
 In: 07:14:21 Drop Box No:

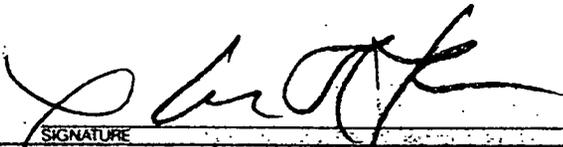
CORP\_10  
 Account Number: NC12504A Material Grade Quantity Total  
 AMERICAN RECYCLING OTHER 2 41340 L  
 P.O. BOX 27486

CLEVELAND, OH 44127

Trk Lic:  
 Job No.: T00000 #Lds: 2890  
 Job Wt.: 94455.94 TONS  
 Job Nme.: NO FREIGHT  
 Job Loc.: NO FREIGHT

77020(S) Lbs Grs  
 35680(K) Lbs Tare  
 41340 Lbs Net  
 20.67 Tons Net  
 Load IN

Total:

  
 SIGNATURE

JANET WILCHER  
 AUTHORIZED SIGNATURE  
 DEPUTY WEIGHMASTER



**Strategic**  
MATERIALS INC.

ACCOUNTING SERVICES  
15990 N. BARKERS LANDING, SUITE 150  
HOUSTON, TX 77079  
PHONE: (800) 385-7275  
FAX: (800) 385-7515

WEIGHMASTER CERTIFICATE

No. 01666

WEIGHMASTER: STRATEGIC MATERIAL, INC.  
WEIGHED AT: 2550 W. MINNESOTA STREET  
INDIANAPOLIS, IN 46241

Date: 02/28/01 Site/Ticket No: A 1666  
Time: 10:55:07 Truck No.: BONESTRN BONEST05  
In: 09:31:00 *23 T.M.* Drop Box No:

CORP\_10  
Account Number: NC12504A  
AMERICAN RECYCLING  
P.O. BOX 27486

Material	Grade	Quantity	Total
OTHER	2	20820 L	

CLEVELAND, OH 44127

Total:

Trk Lic:  
Job No.: T00000 #Lds: 2948  
Job Wt.: 95723.37 TONS  
Job Nme.: NO FREIGHT  
Job Loc: NO FREIGHT

57720(S) Lbs Grs  
36900(K) Lbs Tare  
20820 Lbs. Net  
10.41 Tons Net  
Load IN

SIGNATURE

AUTOMATED WEIGHMASTER

DEPUTY WEIGHMASTER

## MATERIAL SAFETY DATA SH

Page 001  
 Date Prepared: 01/05/96  
 Date Printed: 08/03/96  
 MSDS No: 0014074-009.001

SOLVENT 140-66

HUKILL

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL CORPORATION

7013 Krick Road

Bedford, Ohio 44146

(44) 232-9400

Material Identity  
 Product Name: SOLVENT 140-66 (HUVASOL 140)  
 General or Generic ID: ALIPHATIC HYDROCARBON

## Company

Ashland Chemical Co.  
 P.O. Box 2219  
 Columbus, OH 43216  
 614-790-3333

Emergency Telephone Number:  
 1-800-ASHLAND (1-800-274-5263)  
 24 hours everyday

Regulatory Information Number:  
 1-800-325-3751

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
ALIPHATIC PETROLEUM DISTILLATES	64742-88-7	100.0

## 3. HAZARDS IDENTIFICATION

## Potential Health Effects

**Eye**  
 Exposure may cause mild eye irritation. Symptoms may include stinging, tearing, and redness.

**Skin**  
 Exposure may cause mild skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking, and skin burns. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

**Swallowing**  
 Single dose oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful. This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or damage.

**Inhalation**  
 Exposure to vapor or mist is possible. Short-term inhalation toxicity is low. Breathing small amounts during normal handling is not likely to cause harmful effects; breathing large amounts may be harmful. Symptoms are more typically seen at air concentrations exceeding the recommended exposure limits.

**Symptoms of Exposure**  
 gastrointestinal irritation (nausea, vomiting, diarrhea), irritation (nose, throat, respiratory tract), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness).

**Target Organ Effects**  
 Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans.

Continued on next page

MATERIAL SAFETY DATA SHEET

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Date Prepared: 01/05/96  
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**Developmental Information**

No data

**Cancer Information**

Based on the available information, this material cannot be classified with regard to carcinogenicity. This material is not listed as a carcinogen by IARC, NTP or OSHA.

**Other Health Effects**

No data

**Primary Route(s) of Entry**

Inhalation, Skin absorption, Skin contact, Eye contact.

---

**4. FIRST AID MEASURES**

**Eyes**

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

**Skin**

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

**Swallowing**

Do not induce vomiting. This material is an aspiration hazard. If individual is drowsy or unconscious, place on left side with the head down. Seek medical attention. If possible, do not leave individual unattended.

**Inhalation**

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

**Note to Physicians**

No data

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**5. FIRE FIGHTING MEASURES**

**Flash Point**

142.0 - 150.0 F (61.1 - 65.5 C) TCC

**Explosive Limit**

(for product) Lower 1.0 % Upper 6.0 %

**Autoignition Temperature**

440.0 F

**Hazardous Products of Combustion**

May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Continued on next page

## MATERIAL SAFETY DATA SHEET

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 Date Prepared: 01/05/96  
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SOLVENT 140-66

**Fire and Explosion Hazards**

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

**Extinguishing Media**

regular foam, carbon dioxide, dry chemical.

**Fire Fighting Instructions**

Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

**NFPA Rating**

Health - 0, Flammability - 2, Reactivity - 0

**6. ACCIDENTAL RELEASE MEASURES****Small Spill**

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

**Large Spill**

Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

**7. HANDLING AND STORAGE****Handling**

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. All five gallon pails and larger metal containers including tank cars and tank trucks should be grounded and/or bonded when material is transferred. Hydrocarbon solvents are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering or pumping at high flow rates. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids. Warning. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

Continued on next page

SOLVENT 140-66

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Eye Protection**

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

**Skin Protection**

Wear resistant gloves (consult your safety equipment supplier)., To prevent repeated or prolonged skin contact, wear impervious clothing and boots..

**Respiratory Protections**

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

**Engineering Controls**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

**Exposure Guidelines****Component**  
-----

ALIPHATIC PETROLEUM DISTILLATES (64742-88-7)  
No exposure limits established

---

**9. PHYSICAL AND CHEMICAL PROPERTIES****Boiling Point**

(for product) 355.0 F (179.4 C) @ 760 mmHg

**Vapor Pressure**

(for product) .50G mmHg @ 68.00 F

**Specific Vapor Density**

5.480 @ AIR=1

**Specific Gravity**

.790 @ 60.00 F

**Liquid Density**

6.590 lbs/gal @ 50.00 F  
.790 kg/l @ 16.00 C

**Percent Volatiles**

100.0 %

**Volatile Organic Compounds (VOC)**

100.000 %  
790.000 g/l  
6.590 lbs/gal

Continued on next page

## MATERIAL SAFETY DATA SHEET

Page 005  
Date Prepared: 01/03/96  
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MSDS No: 0014074-003.001

SOLVENT 140-66

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Evaporation Rate  
151.00 (ETHER)

Appearance  
WATER WHITE LIQUID

State  
LIQUID

Physical Form  
NEAT

Color  
CLEAR, SAYBOLT COLOR: 30

Odor  
HYDROCARBON

pH  
No data

Viscosity  
1.4 cps

Molecular Weight  
155.0

Solubility in Water  
NEGLIGIBLE

Heat Value  
20633.000 BTU

Bulk Density  
.890 lbs/ft<sup>3</sup>

---

## 10. STABILITY AND REACTIVITY

**Hazardous Polymerization**  
Product will not undergo hazardous polymerization.

**Hazardous Decomposition**  
May form: carbon dioxide and carbon monoxide, various hydrocarbons.

**Chemical Stability**  
Stable.

**Incompatibility**  
Avoid contact with: strong oxidizing agents.

Continued on next page

MATERIAL SAFETY DATA SHEET

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Date Prepared: 01/05/96  
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SOLVENT 140-66

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11. TOXICOLOGICAL INFORMATION

No data

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12. ECOLOGICAL INFORMATION

No data

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13. DISPOSAL CONSIDERATION

Waste Management Information

Dispose of in accordance with all applicable local, state and federal regulations.

---

14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:

NAPHTHA, SOLVENT, COMBUSTIBLE LIQUID, UN1256, III

Container/Mode:

55 GAL DRUM/TRUCK PACKAGE

NOS Component:

SOLVENT 140-66

RQ (Reportable Quantity) - 49 CFR 172.101

Not applicable

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15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (UNITED STATES) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4

None

SARA 302 Components - 40 CFR 355 Appendix A

None

Section 311/312 Hazard Class - 40 CFR 370.2

Immediate( ) Delayed(X) Fire(X) Reactive( )

Pressure( )

Sudden Release of

SARA 313 Components - 40 CFR 372.65

None

Continued on next page

MATERIAL SAFETY DATA SHEET

Page 007  
Date Prepared: 01/05/96  
Date Printed: 08/03/96  
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SOLVENT 140-66

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International Regulations  
Inventory Status  
Not determined

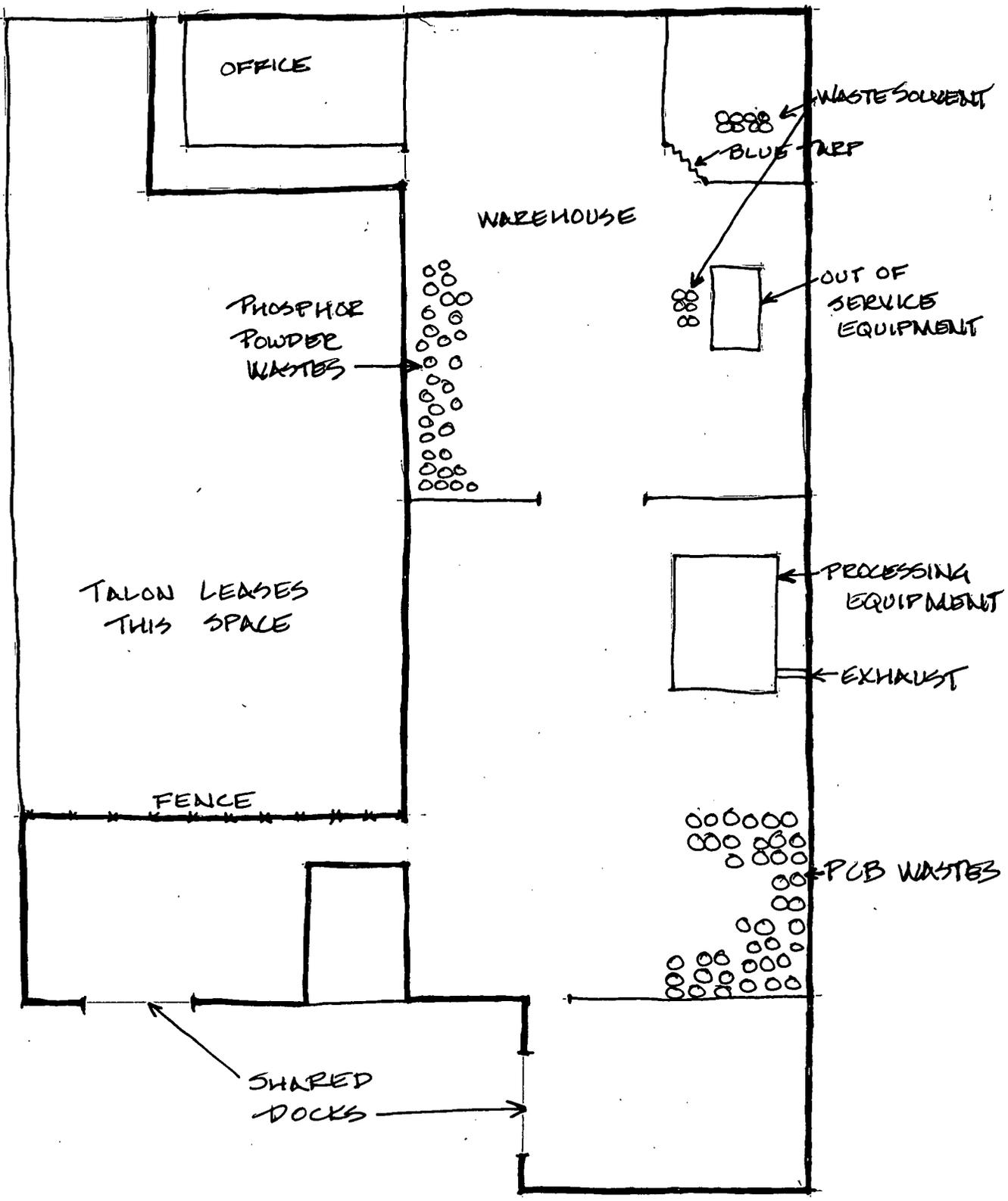
State and Local Regulations  
California Proposition 65  
None

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16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

W. 71<sup>ST</sup> ST.



↑ N  
NTS

AMERICAN RECYCLING COMPANY





State of Ohio Environmental Protection Agency

STREET ADDRESS:Lazarus Government Center  
122 S. Front Street  
Columbus, OH 43215-1099MAILING ADDRESS:P.O. Box 1049  
Columbus, OH 43216-1049

TELE: (614) 644-3020 FAX: (614) 644-2329

April 27, 2001

Kenneth Zolnierczyk  
U.S. EPA Region V, DT-8J  
77 West Jackson Boulevard  
Chicago, IL 60604-3507

Dear Mr. Zolnierczyk:

This letter serves as a follow-up to my March 21, 2001, e-mail, wherein I conveyed Ohio EPA's concerns regarding American Recycling Company, Ltd.'s (ARC) storage of more than three hundred drums containing PCB and non-PCB ballasts. Also in that e-mail, I told you that I was in the process of generating a procedural follow-up letter to ARC to make them aware of Ohio EPA's concerns about their operations and to inform them that we would be notifying U.S.EPA Region 5 of ARC's PCB waste. Due to Ohio EPA's concerns with ARC's hazardous waste management, we escalated the procedural letter to a Notice of Violation (NOV) letter. The following is a summary of our PCB concerns at ARC:

A team of Ohio EPA inspectors visited ARC's facility on March 12, 2001. At our inspection, we discovered more than three hundred drums of PCB and non-PCB ballasts, stacked 4 pallets high, with no aisle space. The ballasts were supposed to be recycled using ARC's ballast recycling equipment. If you read through the attached inspection notes, you will see that ARC has been, and is still, failing to properly manage PCB waste at its former facility, 6701 Hubbard Avenue, Cleveland, Ohio. The facility representative, Drew Koler, stated that most of the more than three hundred PCB drums presently on site at ARC's W. 71<sup>st</sup> Street facility, were brought over from their former Hubbard Avenue facility. ARC moved from 6701 Hubbard Avenue, to 3203 W. 71st Street, Cleveland, Ohio in February, 1999. This is approximately the time that PCB ballasts were transferred to ARC's present facility.

I have attached our photo log from our March 12 inspection of ARC, as well as, Ohio EPA's April 19, 2001, NOV letter to ARC. ARC's facility is located at 3203 W. 71st Street, Cleveland, Ohio 44102 and its EPA identification number is: OHD000720110. The facility's representative, Drew Koler, can be reached at (216) 281-2828.

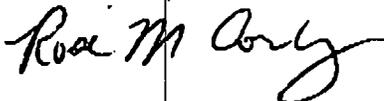
Bob Taft, Governor  
Maureen O'Connor, Lieutenant Governor  
Christopher Jones, Director

Kenneth Zolnierczyk  
U.S. EPA Region V, DT-8J  
April 27, 2001  
Page 2 of 2

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Please let me know if you need any additional information. I may be reached at (614)644-2667 or via e-mail at [rose.connelly@epa.state.oh.us](mailto:rose.connelly@epa.state.oh.us).

Sincerely,



Rose Connelly, Environmental Specialist II  
Information Technologies & Technical Support Section  
Division of Hazardous Waste Management

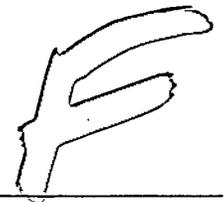
cc: Jeff Mayhugh, Supervisor, IT&TS, DHWM  
Debbie Sharpe, IT&TS, DHWM  
Randy Ohlemacher, CAS, DHWM  
Sherry Slone, NEDO, DHWM

Attachments: *3/12/01 Photo Log: American Recycling Company inspection*  
*4/19/01 NOV letter from Sherry Slone to American Recycling Co., Ltd.*

~~g:\users\ds\sharp\arc-region 5.wpd~~



State of Ohio Environmental Protection Agency  
Northeast District Office



2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

April 19, 2001

RE: AMERICAN RECYCLING CO., LTD.  
OHD000720110  
CUYAHOGA COUNTY

Mr. Drew Koler  
American Recycling Company, LTD.  
P.O. Box #27486  
Cleveland, Ohio 44127-0486

CERTIFIED MAIL

Dear Mr. Koler:

Thank you for cooperating on March 12, 2001 when Rose Connelly, Randy Ohlemacher and I visited American Recycling Company, Ltd. (ARC) at 3203 W. 71<sup>st</sup> Street in Cleveland, Ohio. We had originally come on March 8, 2001, but you stated you could not meet with us that day so we arranged to come back on the 12<sup>th</sup>. We visited ARC to determine how lamps are being managed, how each product of the recycling/dismantling operation is being used, how materials are being handled on site, and what quantities of lamps and other materials are being handled. We did not conduct a complete hazardous waste compliance evaluation inspection but we did discover several **significant violations** during our visit.

We understand ARC is a recycling company that accepts primarily fluorescent and high intensity discharge lamps. ARC also accepts and then serves as a broker for other items such as batteries, keyboards, computers, and switches. About 25000 lamps are received per month and 100% of these are recycled. The lamps are received with non-hazardous waste manifests or bills of lading at a loading dock which is shared with the occupant of the adjacent leased space in the same building. As lamps come in they are visually inspected. If lamps are broken, they are transferred to a steel drum with a lid. The lamps are secured onto a pallet and staged close to the processing equipment. They are processed in the order received. A fork lift is used to lift the pallets to the elevated feed platform. The lamps are placed on an inspection table where they are inspected and counted prior to entering the feed chute of the system. The lamp crushing system is under negative air pressure as it separates the lamps into the components of glass, end caps and phosphor powder. The glass continues through the system for further separation. It is screened on a shaker and separated into sand-like fines and larger pieces of glass. Glass and end caps are collected in large, heavy-walled, corrugated boxes. Phosphor powder and glass fines are collected in fifty-five gallon drums. High efficiency filters are located before the exterior exhaust. They have a back cleaning feature and have not been changed since at least February 1999. (These filters will need to be properly evaluated when they are removed to determine if they are a hazardous waste.)

The glass is given or sold at a very low price to be reused for fiberglass insulation. Other reuses such as art glass and synthetic granite wall surfacing are being considered. ARC has sampled the glass and has had a toxicity characteristic leaching procedure (TCLP) test performed on it. The glass was determined to be non-hazardous. End caps go to a broker in Cleveland that sells them to steel mills for recycling. The phosphor powder has been accumulating in drums and a known recycling use has not yet been found. You acknowledged the phosphor powder would be a D009 hazardous waste because of its mercury content if sent off-site as a waste. One drum of this waste was manifested off-site on March 18, 1998 as a hazardous waste from your former site at 6701 Hubbard Ave. in Cleveland to a mercury treatment facility. Approximately 74 drums of this waste are being stored in your facility. You estimated that approximately one drum per month of this waste is generated and most of this stored waste was brought over from the previous location.

We found the following violations of Ohio's hazardous waste regulations and laws.

1. **Storage of a Hazardous Waste at an Unpermitted Facility and Transporting a Hazardous Waste to an Unpermitted Facility - Ohio Revised Code (ORC) 3734.02(F)**

According to Ohio Administrative Code (OAC) rule 3745-51-02(B), materials are wastes when they are accumulated or stored before or in lieu of being disposed. The mercury contaminated phosphor materials are wastes because they have been accumulated in lieu of being disposed. One drum was manifested as a hazardous waste in 1998 but none since. ORC 3734.02(F) prohibits any person from storing a hazardous waste at a facility that does not have a hazardous waste permit. These wastes have been accumulated for over six years, based on 74 drums being stored with a generation rate of one drum per month. The current and the previous facilities do not have a hazardous waste permit and therefore these wastes have been illegally stored at the current location since February 1999.

Also ORC 3734.02(F) prohibits any person from transporting or causing to be transported hazardous waste to an unpermitted facility. ARC transported, or caused to be transported, approximately 50 drums of the mercury contaminated phosphor waste illegally from its previous location to the current location in February 1999.

**ARC must immediately arrange for the proper transportation and treatment or disposal of these wastes.** Please submit copies of manifests to me within 30 days of the date of this letter showing that these wastes have been removed from the site. Also submit a written explanation, within 30 days of the date of this letter, describing how these wastes will be managed as they continue to be generated.

Be advised that since ARC has accumulated hazardous waste for over 90 days at this facility, it is the operator of a storage facility according to OAC rule 3745-52-34, and is subject to the requirements of rules 3745-50-40 to 3745-50-62, 3745-54 to 57, and 3745-65 to 3745-69. Please inform me, within 30 days of the date of this letter, of any efforts you have taken to comply with any of these rules.

**2. Waste Evaluation - OAC rule 3745-52-11**

ARC failed to evaluate the waste solvent generated from its former ballast recycling operation, or other operations, to determine if it is a hazardous waste. At the time of the inspection, ARC was accumulating the waste solvent in ten 55-gallon drums in a northeast room of the warehouse, behind a hanging blue tarp. Unevaluated waste solvent was also located outside of the blue tarp, on the east side of the warehouse. Some of these containers were labeled "used solvent" and some were not labeled but acknowledged to be used solvent. A material safety data sheet for this solvent showed the original flash point was 120 degrees Fahrenheit.

ARC must immediately evaluate its waste solvent to determine if it is a listed or characteristic hazardous waste pursuant to OAC rule 3745-52-11. We are requesting that you notify us at least five business days in advance of any sampling of these solvents, so that we can be present when you sample. You indicated you would dispose of all solvents properly at Chemical Solvents, a permitted hazardous waste facility. Within 30 days of the date of this letter, submit manifests showing that this waste has been properly removed from the site.

We have the following concerns with your facility:

During the entrance interview you told us that phosphor powder generated during the lamp recycling operations could potentially be incorporated into building materials such as blocks. You indicated the powder would not be taking the place of a needed ingredient. Be advised this would not constitute legitimate recycling, and therefore the powder would still be considered a hazardous waste and need to be managed as such.

During our tour of your facility you verified that you are storing over 300 drums of PCB and non-PCB ballasts. These drums were stacked 4 pallets high, with no aisle space. These ballasts were intended to be recycled using ARC's ballast recycling equipment at its former location. You do not perform ballast recycling at your present site. Most of the 300 drums were brought over from your previous site in February 1999 and you have no immediate plans to manage these containers. We have notified Kenneth Zolnierczyk at USEPA Region 5 and will be following up with him regarding your PCB waste.

AMERICAN RECYCLING CO., LTD.  
APRIL 19, 2001  
PAGE - 4 -

During the tour we noticed floor drains in the area where the phosphor waste was being stored. You indicated that you would confirm with your landlord that the drain lines have been plugged.

Enclosed you will find a copy of the checklist completed during our visit. A copy of the hazardous waste rules and laws can be found on our web site at [www.epa.state.oh.us](http://www.epa.state.oh.us). If you should have any questions or need any assistance, please feel free to contact me at (330) 963-1226. Please submit the above requested items to my attention at the northeast district office.

The absence of listing a specific deficiency in this letter does not relieve ARC from the responsibility to comply with all applicable hazardous waste regulations.

Sincerely,



Sheryl K. Slone, P.E.  
Environmental Engineer  
Division of Hazardous Waste Management

SKS:ddw

cc: Jeff Mayhugh, IT&TS, DHWM  
Rose Connelly, IT&TS, DHWM  
Randy Ohlemacher, CAS, DHWM  
Natalie Oryshkewych, NEDO, DHWM  
Linda Neumann, CO, DHWM  
David Hearne, Cleveland Bureau of Air Pollution Control

Enclosure

## PROCESS DESCRIPTION/WASTE ACTIVITIES SUMMARY

**Facility Name:** American Recycling Company, Ltd.

**Facility Type:** SQG

**EPA ID#:** OHD000720110

<i>Description of Waste</i>				<i>On-Site Management</i>			<i>Off-Site Management</i>	
<b>Process/Activity Generating Waste</b> (e.g. plating bath, machining, baghouse, painting, etc)	<b>Waste Generated</b> (e.g. sludge, spent solvent, ash, etc)	<b>EPA Waste Code</b>	<b>QTY Generated per Month</b>	<b>Type of Accumulation/Storage</b> (e.g. container, tank, etc)	<b>Type of On-Site Treatment</b> (recycle, wwt, etc)	<b>Waste Location</b> (Include map if possible)	<b>Name, state, and type of activity occurring at the facility.</b>	
1	Fluorescent lamp processing/recycling	phosphor powder containing mercury	D009	1 55g drum	55 gal drums	lamp crushing/recycling	northwest end of facility	glass fines and pieces go to Strategic Materials, Indianapolis, for commercial building insulator  end caps go to either Chemetco or Ponz, both in Cleveland, who then sell them to steel mills for smelting.

### REMARKS—GENERAL INFORMATION

**General Process Information:**

American Recycling Co (ARC) receives shipment of lamps at loading dock that is shared by 3203 W. 71<sup>st</sup> St. tenants. ARC performs a visual inspection of the received materials. Shipment is off-loaded onto pallets or onto the floor. If bulbs are broken, they are set aside to be managed first. ARC maintains a first in, first out processing rule, but manages broken bulbs before any other type. If containers have not already been placed on pallets, they are placed on pallets at this time and moved to an area where they will be kept prior to processing. When it is time for lamps to be processed, a forklift transfers the pallet onto a raised platform. Containers holding the lamps are opened onto an inspection table where they are visually inspected before being fed into the lamp crushing system. Lamps are tallied before entering into the mouth of the system. The lamp crushing system is under negative air pressure as it separates the lamps into the separate components of glass, end caps and phosphor powder. The glass continues through the system for further separation; it is screened on a shaker and separated into sand-like fines and larger pieces of glass. Glass is collected in large, heavy-walled, corrugated Gaylord boxes. End caps are also collected in similar Gaylord boxes. Phosphor powder is collected in fifty-five gallon drums. ARC maintains that they recently changed their lamp crushing process so that powder is better separated from glass pieces. ARC has not shipped phosphor off-site since they've been at their present location (notified in May of 1999).

## **Regulatory/Enforcement History:**

ARC failed to properly evaluate and manage 47 drums at former facility. Drums were determined to be PCB ballasts. ARC is still working to ship drums off-site ( negotiated arrangement to ship 2-3 drums per month).

## **Other:**

ARC notified as a Small Quantity Generator in May of 1999. Reported characteristic wastes on site are: D001, D005, D006, D008, D009. Reported listed wastes on site are: U028 AND U151. PCBs were also reported to be managed on-site. ARC indicated that this notification was a protective filing and that they don't routinely generate hazardous waste. ARC wished to maintain their EPA identification number for any phosphor sent to a retort facility.

ARC submitted a Pollution Prevention loan application in 1995. ARC was approved in 1995, to install and operate light ballast and lamp recycling systems that will significantly reduce the hazardous and toxic pollutants listed above that would otherwise be released into the environment. ARC received this loan in August of 1997 and it is still in payment.

ARC indicated that they got a verbal okay from Northeast District Office (NEDO), Division of Air Pollution Control for their lamp crushing operation's negative air pressure system . ARC said that the emissions unit is a DeMinimis unit, which means that emissions of an air pollutant from the source is limited to less than ten pounds per day or restricts the operation of the source in a manner equivalent to an emission limit of less than ten pounds per day. ARC said they worked with Dennis Bush and Nancy Meli, in NEDO regarding this, but ARC does not have documentation to support this claim. Dennis Bush, NEDO, DAPC, didn't recall speaking with ARC. David Hearne, Cleveland Bureau of Air Pollution Control, had no record or information on ARC. ARC has not changed filters in their negative air pressure system since they have been at this address.

There is a blue tarp hanging in the northeast corner of the facility where ten drums of unknown solvent are stored. These drums have not been evaluated, but ARC maintains that some of them contain a kerosene based solvent that was used for the ballast recycling system parts washer.

Over 300 drums of PCB ballasts were stacked on pallets four and five high, and five deep. Drums are in deteriorating condition. All have been brought to this site from former facility. At this time, ARC does not have plans together for disposal of this material.

**From:** Rose Connelly  
**To:** zolnierczyk.kenneth@epa.gov  
**Date:** 3/21/01 1:47PM  
**Subject:** American Recycling Co.-PCBs

Kenneth:

A team of Ohio EPA inspectors visited American Recycling Company, Ltd.'s (ARC) facility on March 12, 2001. At our inspection, we discovered 300+ drums of PCB ballasts, stacked 4 pallets high, with no aisle space. The ballasts were supposed to be recycled using ARC's ballast recycling equipment. If you read through the attached inspection notes, you will see that ARC has had (and is still having) "issues" with disposal of PCB waste at its former facility, 6701 Hubbard Avenue, Cleveland, Ohio. The facility representative, Drew Koler, stated that most of the 300+ PCB drums presently on site were brought over from the previous facility. ARC moved from 6701 Hubbard Avenue, to 3203 W. 71st Street, Cleveland, Ohio, in February, 1999. This is approximately the time that PCB ballasts were transferred to ARC's present facility.

I have attached our Northeast District Office inspector's notes, as well as, the photo log from our March 12, inspection of ARC. The facility is located at 3203 W. 71st St., Cleveland, Ohio 44102 and its EPA ID# is: OHD000720110. The facility representative is Drew Koler and his number is: 216-281-2828.

I am in the process of generating a procedural follow-up letter to ARC to make them aware of Ohio EPA's concerns about their operations. In this letter, I will inform them of this notice to you regarding ARC's PCB waste situation.

Please let me know if you need any additional information.

Thank you,  
Rose

Rose Connelly  
Environmental Specialist II  
IT&TS Section  
Division of Hazardous Waste Management  
phone: (614) 644-2667  
email: rose.connelly@epa.state.oh.us

# Memo

**To:** File  
**From:** Sherry Slone  
**Date:** March 14,2001  
**Subject:** Notes from Inspection at American Recycling Company, LTD.

## Inspection March 12, 2001

*Rose Connelly (lead), Randy Ohlemacher, and Sherry Slone*

Met with Drew Koler and Dan I.n.u.(process supervisor). Drew explained that American Recycling Company (ARC) accepts HID and fluorescent lamps for recycling. Other items accepted are sent on to treaters or brokers. Batteries are sent to Mid West Guardian in Wapekoneta, Ohio. CRT's, keyboards and computers are sent to Great Lakes Electronic Recycling. Switches are sent to Chemtron or to Mercury Waste Solutions. Safety Kleen is used as a broker for ballasts. Not all ballasts have PCB's. Haven't accepted ballasts since moved to this site in February 1999. 95% of incoming lamps are in cardboard boxes. 5% are in fiber or steel drums.

Talon, the occupant of an adjacent leased space, shares the loading dock with ARC. (The building is owned by Advance Handling and Storage, Inc.) As lamps come in they are palletized. Occasionally lamps are broken when they come in. When this is the case, the lamps are transferred to steel drums. Whole lamps are easier to process than crushed. All storage of lamps is done within the building on a concrete floor. Initially Drew told us there were no floor drains. However some were noticed during our walk-through and pointed out to Drew, and he then said they were plugged.

## Process

The customer packages their own lamps. If the lamps have been broken, ARC sends an open head steel drum with a gasket to the customer. The lamps are transported in on a non-haz manifest or bill of lading. Upon receipt at ARC, a visual inspection is done. They are staged close to the processing equipment and processed in the order received. The lamps are stacked on pallets and a fork lift is used to lift the pallets to the feed platform. The lamps are placed on an inspection table (negative air pressure) where they are counted. They are then fed into a chute to a crusher, through a separator and sieves. The end caps and glass go into gaylords and the phosphor powder and glass fines or sand go into drums. (The equipment used is called a 5M ARC system and Drew gave Rose a copy of their marketing literature for this system.)

The entire process is closed and under negative pressure. High efficiency filters are located before the exterior exhaust. Drew said he has talked with Nancy Meli and Dennis Bush from NEDO DAPC. Emissions are de minimis and therefore no point source permit was needed. The filters have a back cleaning feature and have not had to be changed yet (2 years). Randy advised Drew that TCLP should be done on the filters when they are removed. A TCLP was done on the glass and it was found to be non-haz.

The glass is given or sold at a very low price to Strategic Materials in Indianapolis. The glass is used for art glass purposes, for fiberglass insulation and for synthetic granite wall surfacing. End caps go to Chemetco, a broker on the east side of Cleveland, that sells them to the steel mills. The phosphor powder has been accumulating in drums and a known recycling use has not yet been found. Drew said the phosphor powder would be TCLP for mercury, D009, if the powder was a waste. He has been thinking about how the powder might be used in building materials such as blocks. However, the phosphor would not be taking the place of a needed ingredient. It would be a method to avoid disposal in a landfill. Approximately 70 drums of phosphor powder is in storage. Drew said they need to send the contents of most of these drums back for reprocessing through their newer equipment because the pieces of glass in the powder are too large. This hasn't been done because it takes time and doesn't make money. Phosphor solution was sent to Mercury Waste Solutions in past. (This company was bought out by Superior Services.) One drum of D009 was sent on a manifest to Mercury Waste Recyclers on 3/18/98. No phosphor has been sent off-site from this location (since 2/99). Most of these drums were brought over from the previous site.

About 25000 lamps are received per month. 100% of these are recycled. Less than 1 drum per month of phosphor powder is generated from the process. It costs about \$500 per drum to send phosphor powder to a retort facility. Adding retort equipment to their system would not be economically efficient. HID lamps don't have phosphor coating like fluorescent lamps. Some fluorescent lamps have a plastic coating (Shattershield) that make them harder to process. These are processed together but separately from regular fluorescent lamps.

#### Misc.

Operating hours are from 8:30-4:30. ARC has three employees including Drew. They also employ independent drivers as needed. Drew is thinking of adding a second shift.

ARC notified as a SQG in 5/99. Drew indicated this was a protective filing but don't routinely generate haz waste. Want to maintain ID# for any phosphor sent to a retort facility.

Drew indicated the phone number for ARC on our fact sheet is wrong.

Drew is in favor of Ohio EPA adopting the UWR because it would level the playing field across states.

#### Walk Through

We walked through the warehouse area first. A corner room had a blue tarp covering its doorway. 8 - 10 drums of solvent/oil were found in this area. Some of those might be empty.

The solvent was used at their previous facility for ballast recycling. The warehouse contained numerous drums of phosphor powder. Drew said there were about 74 drums. There was no aisle space around these drums to inspect. Dates of 2/00, 1/00, 4/99, and 5/99 were observed on drums near the process area. Gaylords of capacitors were also stored with the phosphor powder on the west side of the warehouse area. Floor drains were noted and Drew said he thought they were blind. We inspected the loading dock area and the process area.

Over 300 drums of ballasts were being stored in the southeast corner of the process room. There was no aisle space to inspect these drums which were stacked 4 pallets high. Drew said most of these were brought over from the previous facility where they recycled PCB ballasts.

#### Exit Discussion

Drew will confirm with the landlord that the floor drains have been plugged. Most ballasts are from previous site. Reviewed the MSDS for the solvent that was used in a parts washer. Flash point was 120 F. Drew said he would dispose of all solvent properly with Chem Solvents.

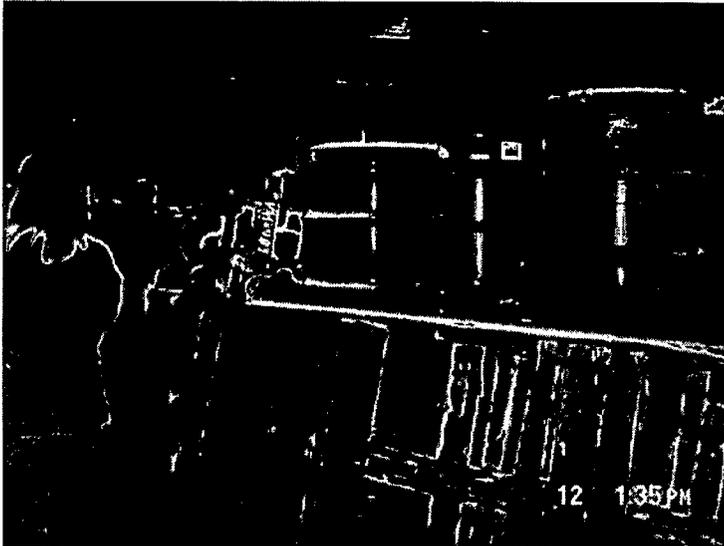
PCB process wastes at previous site are being sent to Safety Kleen at the rate of two drums per month. Our files showed wastes were last sent off-site in December. Drew had manifest #01261 showing 2 drums were sent off on January 26, 2001 and another manifest for 2 drums at the beginning of March (for February). Plans to do another shipment in March.

Randy advised Drew of his speculative accumulation violation for the phosphor powder. Randy also advised him to open and number all drums of solvent. He will need to characterize these wastes by running organics, metals, and PCB's.

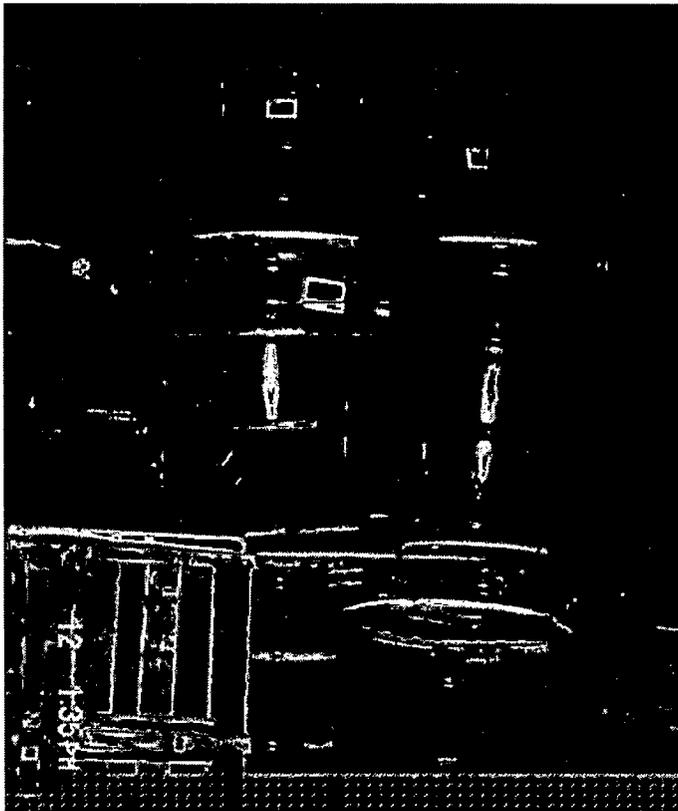
Rose indicated she would follow up with a letter.

American Recycling Company  
3203 West 71<sup>st</sup> St., Cleveland  
OHD000720110  
March 12, 2001

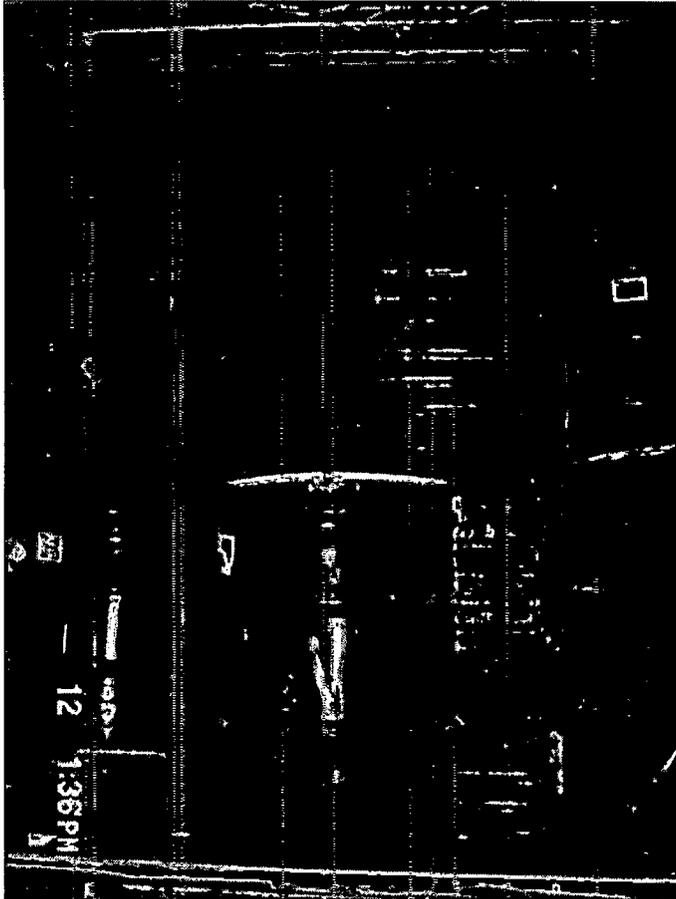
Sony Digital Camera  
photos taken by Sherry Slone



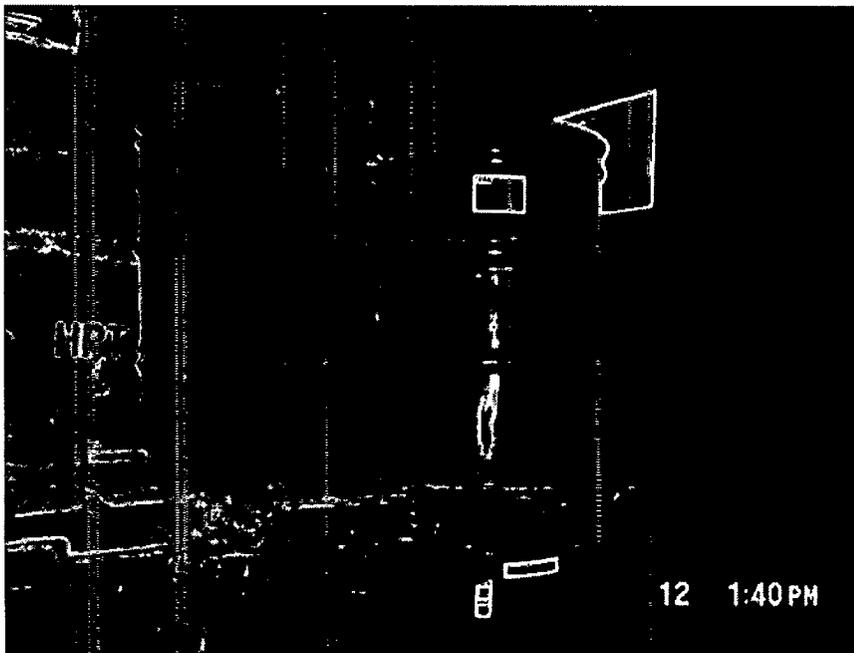
#02  
Drums of phosphor powder  
Stored along the west wall of the  
warehouse



#03  
Drums of phosphor powder  
Pallets of capacitors  
Stored along west side of warehouse



#04  
Phosphor powder  
West side of warehouse



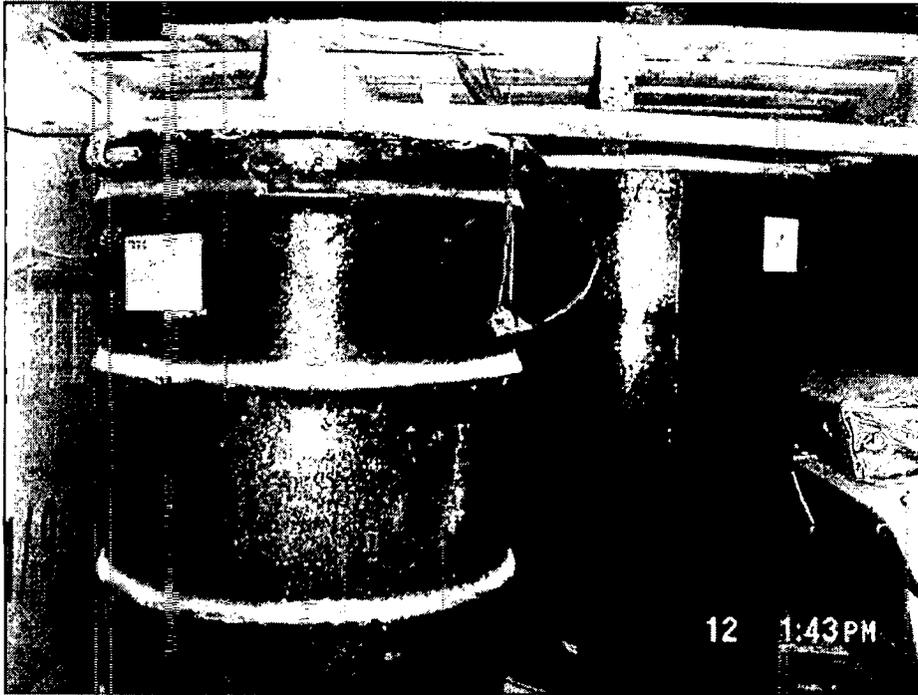
#05  
Used solvent from previous  
facility  
East side of warehouse



#06  
Used solvent from  
previous facility



#07  
'PCB Ballast'



#08  
'Non PCB debris'

12 1:43 PM

#9  
Southeast corner of process room  
'PCB' ballasts





#10  
Drums of PCB wastes in southeast corner of  
process room



#11  
Hazardous waste  
labels on PCB drums



#12  
Box of capacitors

## Fluorescent Lamp Recycler Site Visits

Company: American Recycling Company, Ltd. EPA ID#: OHD000720110

Street: 3203 W. 71<sup>st</sup> Street City: Cleveland

County: Cuyahoga State: Ohio Zip: 44102

Mailing Address: P.O. Box 27486 Cleveland, Ohio 44127-0486  
(If different from above)

Telephone: 216-281-9200 Fax #: 216-281-5505

Owner/Operator: Advanced Handling & Storage Inc. Joe Cala 651-4477 or 440-248-6202  
(If different from above)

Street: same

City: \_\_\_\_\_ State: Ohio Zip: \_\_\_\_\_

Inspection Date(s): March 12, 2001 Time(s): 11:45 a.m. to 4:20 p.m.

Inspection Announced?  Yes  NO If so, how much advance notice given? 4 days

	<u>Name</u>	<u>Affiliation</u>	<u>Telephone</u>
Inspectors:	<u>Rose Connelly</u>	<u>Ohio EPA DHWM, CO</u>	<u>614-644-2667</u>
	<u>Randy Ohlemacher</u>	<u>Ohio EPA DHWM, CO</u>	<u>614-644-2971</u>
	<u>Sherry Slone</u>	<u>Ohio EPA DHWM, NEDO</u>	<u>330-963-1226</u>

Facility Representative: Drew Koler Environmental Coordinator 216-281-9200

**NOTE: The four major goals of fluorescent lamp recycler site visits are:**

- 1. Determine how the lamps are being managed;**
- 2. Determine how each product of the recycler/dismantler operation is being used;**
- 3. Determine how all handlers are managing materials on site; and**
- 4. Determine the quantities of lamps and other materials which are being recycled.**

**STORAGE (UPON RECEIPT)**

Upon receipt how are lamps being stored?

1. Are they stored in containers? Yes or No (describe the type of container(s) used)

*Lamps are received in the original lamp boxes and then palletized, and stacked prior to processing.*

2. Is storage inside/outside? (circle the applicable response). Describe where at the facility containers are being stored.

*Lamps are received at facility's loading dock and stored inside the facility. Lamps are stored at various locations within the facility. Most lamps are in boxes on pallets, but some boxes are stored on the floor.*

3. Does storage occur on an impermeable surface? Yes or No, please describe.

*Lamps are stored on pallets on the facility's concrete floor.*

4. Is storage in areas where an environment release may cause harm? (Such as floor drains, ponds, wells)? Yes or No, please describe.

*There are three visible floor drains within the facility. ARC has been told by building owner that drains are not functional.*

5. Are bulbs broken when received? Yes or No, please describe.

*Yes, ARC does accept broken bulbs. Broken bulbs are placed in an open top w/bolt ring cover US DOT approved steel drum. ARC will supply broken lamp drums if necessary. Broken bulbs are managed first.*

6. Are broken bulbs placed on the ground. Yes or No, please describe.

*Broken bulbs are stored in 55 gallon steel drums that are placed on pallets.*

7. How are broken bulbs handled?

*Broken bulbs are segregated by type and placed in drums.*

## RECYCLING PROCESS

1. Provide a detailed diagram describing the process(es). The information provided should include the technology used, materials going into the process, waste generation points, end points, etc.

*ARC receives shipments of lamps at facility's loading dock and performs an initial visual inspection. Shipment is off-loaded onto pallets or onto the floor. If bulbs are broken, they are set aside to be managed first. ARC maintains a first in, first out processing rule, but manages broken bulbs before any other type. If containers have not already been placed on pallets, they are placed on pallets at this time and then moved to an area where they will be kept prior to processing. When it is time for lamps to be processed, a forklift transfers the pallet onto a raised platform. Containers of lamps are opened onto an inspection table where they are visually inspected before being fed into the lamp crushing system. Lamps are tallied before entering into the mouth of the system. The lamp crushing system is under negative air pressure as it separates the lamps into glass, end caps and phosphor powder. The glass continues through the system for further separation; it is screened on a shaker and separated into sand-like fines and larger pieces of glass. Glass is collected in large, heavy-walled, corrugated Gaylord boxes. End caps are also collected in similar Gaylord boxes. Phosphor powder is collected in fifty-five gallon drums. ARC maintains that they recently changed their crushing process so that powder is better separated from glass pieces. ARC has not shipped phosphor off-site since they've moved to their present location (notified as Small Quantity Generator (SQG) as of May 1999).*

2. What components are being recycled? (Include a list of the recycled components).

*Glass, glass fines and end caps*

3. How is each component being recycled?

*Glass and fines are shipped to Strategic Materials in Indianapolis, Indiana to be used in production of fiberglass insulation for commercial buildings.*

*End caps are shipped to Chemetco in Cleveland, Ohio who then sells them to steel mills for smelting. ARC is unsure what is done with end caps after smelting.*

4. What wastes are generated from the recycling process?

*Phosphor powder containing mercury.*

5. What happens to these wastes? (are they evaluated?, properly managed?, where are they going?)

*Phosphor powder has not been evaluated and has not been shipped off site from ARC's present location. ARC maintains that they must reprocess some of the powder to further remove glass from powder. Drums of powder have been accumulating since before ARC moved to present address. There are approximately 75 drums of phosphor powder stored on-site.*

*End caps have not been evaluated.*

*Glass has been evaluated for TCLP at least once ( EnviroMatrix, Inc. 2/5/01).*

6. What quantities of lamps are received? (provide the number or weight of the lamps received, if possible)

*ARC receives approximately 25,000 bulbs per month and shipments are accepted daily.*

7. What percentage of the lamps received are recycled?

*One hundred percent of lamps received are recycled. Some lamps are harder to process. These are set aside until enough are collected to do all at once (example: Shatter-shield type lamps). ARC contracts temporary drivers to pick up scheduled shipments when necessary.*

8. Are other mercury containing items accepted? If so, list the other items and include quantities accepted and include a description of the recycling process.

*Batteries - consolidated and shipped to R.H. Welf & Associates where they are recycled.*

*Computers, CRTs, keyboards - consolidated and shipped to Great Lakes Electronics Recycling in Detroit, MI.*

*Mercury switches - consolidated and either sent to Mercury Waste Solution's retort operation in Union Grove or to Chemtron to be brokered for unknown use/disposal.*

9. Are other materials accepted for recycling? If so, list those items and include quantities accepted.

*ARC previously accepted and recycled ballasts. They no longer offer this service.*

10. How long has the fluorescent lamp recycler been in operation?

*ARC has been at this address since February 1999, but didn't began operations until May 1999.*

11. Have samples been collected and analyzed? Yes or No, if yes please describe how the samples were collected, prepared and analyzed. Include a copy of available analytical results.

*Glass has been tested for TCLP on February 5, 2001 by EnviroMatrix, Inc. Results are attached.*

*Phosphor powder has not been analyzed.*

**OTHER:**

ARC submitted a Pollution Prevention loan application in 1995. ARC was approved in 1995, to install and operate light ballast and lamp recycling systems that will significantly reduce the hazardous and toxic pollutants listed above that would otherwise be released into the environment. ACR received this loan in August of 1997 and it is still in payment.

ARC notified as a SQG on May 3, 1999. Reported characteristic wastes on site are: D001, D005, D006, D008, D009. Reported listed wastes on site are: U028 AND U151. PCBs were also reported to be managed on-site. ARC is maintaining their generator status although they claim that they are not currently generating hazardous waste.

ARC indicated that they got a verbal okay from Northeast District Office (NEDO), Division of Air Pollution Control for their lamp crushing operation's negative air pressure system. ARC said that the emissions unit is a DeMinimis unit, which means that emissions of an air pollutant from the source is limited to less than ten pounds per day or restricts the operation of the source in a manner equivalent to an emission limit of less than ten pounds per day. ARC said they worked with Dennis Bush and Nancy Meli, in NEDO regarding this, but ARC does not have documentation to support this claim. ARC has not changed filters in their negative air pressure system since they have been at this address.

There is a blue tarp hanging in the northeast corner of the facility where ten drums of unknown solvent are stored. These drums have not been evaluated, but ARC maintains that some of them contain a kerosene based solvent that was used for the ballast recycling system parts washer.

Over 300 drums of PCB ballasts were stacked on pallets four and five high, and five deep. Drums are in deteriorating condition. All have been brought to this site from former facility. At this time, ARC does not have plans together for disposal of this material.

PCB Ballast Specialists

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**AMERICAN RECYCLING CO., LTD.**

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AMERICAN RECYCLING COMPANY (ARC) IS YOUR SINGLE SOURCE ALLY FOR PROVIDING COST EFFECTIVE AND TURN KEY PCB BALLAST AND LAMP SERVICES.

CHECK THESE KEY BENEFITS ARC CAN PROVIDE FOR YOUR PCB BALLAST AND LAMP REMOVAL PROJECT:

- ARC IS THE LEADER IN PROVIDING NO-HASSLE TURN KEY PCB BALLAST AND LAMP SERVICES. ARC CAN PACKAGE, LABEL, MANIFEST, TRANSPORT AND CERTIFY DISPOSAL FOR ONE COST EFFECTIVE PRICE.
- ARC TEAMS WITH OTHER EPA GREEN LIGHTS ALLIES AND PARTNERS TO HELP COMPANIES REDUCE ENERGY COSTS AND HANDLE OLD LIGHTING COMPONENTS IN AN ENVIRONMENTALLY SAFE MANNER.
- ARC IS DEDICATED TO TOTAL CUSTOMER SATISFACTION BY CONTINUALLY UPGRADING OUR SERVICES THROUGH TOTAL QUALITY MANAGEMENT AND COMPLIANCE WITH DOT, EPA, AND OSHA REGULATIONS AND PROCEDURES.
- ARC IS A MINORITY WOMEN BUSINESS ENTERPRISE (WBE) COMMITTED TO SERVING OUR CUSTOMERS CURRENT AND FUTURE BALLAST AND LAMP HANDLING NEEDS.



*American Recycling Co., Ltd.  
7471 Tyler Boulevard  
Mentor, Ohio 44060*



**AMERICAN RECYCLING  
COMPANY, LTD.**

A Green Lights Ally  
specializing in ballast  
& lamp recycling



Drew R. Koler  
7471 Tyler Boulevard  
Mentor, Ohio 44060  
(216) 946-2221  
FAX (216) 946-0045

DO YOU HAVE TIME  
TO BECOME AN EPA  
EXPERT ON PCB  
BALLAST AND  
MERCURY LAMP  
DISPOSAL ?



*From DAPC files*

**A**nnouncing:

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**PCB Ballast Disposal & Recycling**

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**A Complete Range of Services**

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**Mercury Lamp Disposal & Recycling**

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**At Fees You Can Afford**

---

**1 (216) 946-2221**

**AMERICAN RECYCLING CO., LTD**

**7471 Tyler Boulevard  
Mentor, Ohio 44060**

Delivered to ~?C  
01/09/01

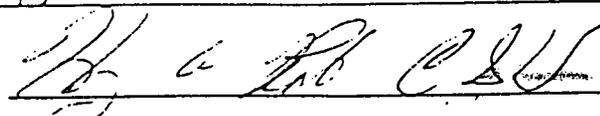
# PACKING SLIP & RECEIVING FORM

ORDER #	8161
---------	------

DATE: 01/08/01  
 CUSTOMER: Cleveland State University  
 ADDRESS: 1983 E. 24th St.  
Cleveland, OH 44115  
 PHONE: (216) 687-9306  
 FAX: (216) 687-5429  
 CONTACT: \_\_\_\_\_

TRANSPORTER: \_\_\_\_\_  
 TRANSPORTER EPA ID#: \_\_\_\_\_  
 SHIP TO: \_\_\_\_\_  
 ATTN: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 PHONE: \_\_\_\_\_

DATE ORDERED	PICKUP REQUIRED	PRIORITY DELIVERY	SHIPMENT VIA	TAX STATUS	INDEMNITY CLAUSE	PROJECT NUMBER	TERMS	PAGE
	Yes		Best Method			102816	N 30	1 of 1
		BY:			BY:			
QUANTITY	UNIT	DESCRIPTION				TYPE	NOTES	
1326	Each	Straight Fluorescent Lamps up to four feet in length				001		
450	Each	Straight Fluorescent Lamps over four feet in length				002		
	Each	Compact Fluorescent Lamps (Without ballasts)				003		
	Each	Circular				004		
11	Each	HID and High Pressure Lamps				005		
	Each	Shatter Shield				006		
141	Each	U-tubes				007		
	Each	Built in Ballasts (includes Compact Fluorescents)				008		
	Each	Incandescent				009		
22	Each	Other				010		
	Each	Broken Fluorescent Lamps				011		
	Lbs.	Broken Fluorescent Lamps				012		
	Lbs.	Crushed Fluorescent Lamps				013		
<del>141</del>	Each	<del>PCB Ballasts</del>				014		
	Lbs.	Non-PCB Ballasts				015		
	Lbs.	Ni-Cad Batteries				016		
<del>141</del>	Lbs.	<del>Lead Acid Batteries</del>				017		
	Each	Empty 55 Gallon Drums				018		

CUSTOMER SIGNATURE:   
 SUNPRO SIGNATURE: \_\_\_\_\_

Signature \_\_\_\_\_ Printed Name \_\_\_\_\_ Date \_\_\_\_\_

# PACKING SLIP & RECEIVING FORM

ORDER # 8161

DATE: 01/08/01  
 CUSTOMER: Cleveland State University  
 ADDRESS: 1983 E. 24th St.  
 Cleveland, OH 44115  
 PHONE: (216) 687-9306  
 FAX: (216) 687-5429  
 CONTACT:

TRANSPORTER: Sunpro Inc.  
 TRANSPORTER EPA ID#: OH000033336  
 SHIP TO:  
 ATTN:  
 ADDRESS: 7392 Whipple Ave.  
 N. Canton Oh 44705  
 PHONE: 330-966-0910

DATE ORDERED	PICKUP REQUIRED	PRIORITY DELIVERY	SHIPMENT VIA	TAX STATUS	INDEMNITY CLAUSE	PROJECT NUMBER	TERMS	PAGE
	Yes	BY:	Best Method		BY:	102816	N 30	1 of 1
QUANTITY	UNIT	DESCRIPTION				TYPE	NOTES	
11,400	Each	Straight Fluorescent Lamps up to four feet in length				001		
	Each	Straight Fluorescent Lamps over four feet in length				002		
	Each	Compact Fluorescent Lamps (Without ballasts)				003		
	Each	Circular				004		
	Each	HID and High Pressure Lamps				005		
	Each	Shatter Shield				006		
	Each	U-tubes				007		
	Each	Built in Ballasts (includes Compact Fluorescents)				008		
	Each	Incandescent				009		
	Each	Other				010		
	Each	Broken Fluorescent Lamps				011		
	Lbs.	Broken Fluorescent Lamps				012		
	Lbs.	Crushed Fluorescent Lamps				013		
	Each	PCB Ballasts				014		
	Lbs.	Non-PCB Ballasts				015		
	Lbs.	Ni-Cad Batteries				016		
	Lbs.	Lead Acid Batteries				017		
	Each	Empty 55 Gallon Drums				018		

CUSTOMER SIGNATURE: *J. Dennis Wright C.S.U.*  
 SUNPRO SIGNATURE: *[Signature]* K.L. Price 01/08/01  
 Signature Printed Name Date

# NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>	1. Generator's US EPA ID No. <p style="text-align: center;">N/A</p>	Manifest Document No.	2. Page 1 of 1
3. Generator's Name and Mailing Address <p style="text-align: center;">CSU</p>		ATTN:	
4. Generator's Phone ( ) <i>Sinkro Dkc</i>		PH:	
5. Transporter 1 Company Name <del>USA'S DELIVERY SERVICE, INC NOT APPLIC</del>	6. US EPA ID Number	A. State Transporter's ID	
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter 1 Phone <i>440-582-2280</i>	
9. Designated Facility Name and Site Address <i>AMERICAN RECYCLING COMPANY 9203 WEST 71st STREET CLEVELAND, OHIO 44102</i>	10. US EPA ID Number <i>OH 000720110</i>	C. State Transporter's ID	
		D. Transporter 2 Phone	
		E. State Facility's ID	
		F. Facility's Phone <i>216-281-2828</i>	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

11. WASTE DESCRIPTION	12. Containers		13. Total Quantity	14. Unit Wt./Vol.
	No.	Type		
a. 4-FT. FLUORESCENT LAMPS FOR RECYCLING/REUSE		CF	<i>11,400</i>	N/E
d. 8-FT. FLUORESCENT LAMPS FOR RECYCLING/REUSE		CF		N/A
c. (U)- FLUORESCENT LAMPS FOR RECYCLING/REUSE		CF		N/A
d. LAMP BALLAST FOR RECYCLING		DM		LB
G. Additional Descriptions for Materials Listed Above		H. Handling Codes for Wastes Listed Above		

15. Special Handling Instructions and Additional Information

FINAL COUNT TO BE VERIFIED AT AMERICAN RECYCLING COMPANY

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

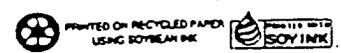
Printed/Typed Name	Signature	Date
		Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date
		Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date
		Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.		
Printed/Typed Name <i>Rich Hill</i>	Signature <i>Rich Hill</i>	Date
		Month Day Year <i>2/10/01</i>





# PACKING SLIP & RECEIVING FORM

ORDER # 102971

DATE: 1/4/01  
 CUSTOMER: Contours, Ltd. Plant C  
 ADDRESS: 510 Collins Blvd.  
Orrville, OH 44667  
 PHONE: 330-683-5060  
 FAX: 330-683-0446  
 CONTACT: Stacy Leag

TRANSPORTER: SUNPRO  
 TRANSPORTER EPA ID# OHO000333336  
 SHIP TO: SUNPRO  
 ATTN: Ron Davis  
 ADDRESS: 7392 Whipple Ave NW  
North Canton, OH 44720  
 PHONE: 330-966-0910

DATE ORDERED	PICKUP REQUIRED	PRIORITY DELIVERY	SHIPMENT VIA	TAX STATUS	INDEMNITY CLAUSE	PROJECT NUMBER	TERMS	PAGE
01/02/01	Yes		Best Method			102971	N 30	1 of 1
QUANTITY	UNIT	DESCRIPTION				TYPE	NOTES	
600	Each	Straight Fluorescent Lamps up to four feet in length				001		
	Each	Straight Fluorescent Lamps over four feet in length				002		
	Each	Compact Fluorescent Lamps (without ballasts)				003		
	Each	Circular				004		
11	Each	HID and High Pressure Lamps				005		
	Each	Shatter Shield				006		
	Each	U-tubes				007		
	Each	Built in Ballasts (includes Compact Fluorescents)				008		
	Each	Incandescent				009		
	Each	Other				010		
	Each	Broken Fluorescent Lamps				011		
	Lbs.	Broken Fluorescent Lamps				012		
	Lbs.	Crushed Fluorescent Lamps				013		
	Each	PCB Ballasts				014		
	Lbs.	Non-PCB Ballasts				015		
	Lbs.	Ni-Cad Batteries				016		
3	Lbs.	Lead Acid Batteries				017		
	Each	Empty 55 Gallon Drums				018		

CUSTOMER SIGNATURE: [Signature]  
 SUNPRO SIGNATURE: [Signature]  
 Signature

[Signature] Printed Name  
1/4/01 Date



## MEMORANDUM

To: (File)

From: Elissa Miller (Reviewer); Ohio EPA Legal Office.

Date: February 2, 2023

These files were reviewed to determine whether records contained herein are confidential or otherwise exempt from the disclosure obligations of Ohio Revised Code (ORC) 149.43

**X** **All files are public**

No records were removed based on this review.

       **Some files are not public**

Records were removed or redacted for the reasons given below:

       **Attorney- Client Privilege**, State ex rel. Leslie v. Ohio Hous. Fin. Agency, 105 Ohio St.3d 261, 265 (2005).

       **Attorney Work Product**, Squire, Sanders & Dempsey, L.L.P. v. Givaudan Flavors Corp., 127 Ohio St.3d 161 (2010).

       **Confidential Law Enforcement Investigatory Records**, ORC 149.43(A)(1)(h).

       **Social Security Numbers**, State ex rel. Office of Montgomery County Pub. Defender v. Siroki, 108 Ohio St.3d 207 (2006).

       **Release Otherwise Prohibited by Law**, (i.e. trade secret, infrastructure and security records, etc.), ORC 149.43(A)(1)(v).

       **Other Specified Reason:**

       **All files are confidential**

Should you have any questions regarding this issue, please contact Ohio EPA's Office of Legal Services.

(This memorandum is to remain visibly attached to this file.)

AMERICAN RECYCLING COMPANY  
OHD 000 720 110  
CUYAHOGA COUNTY  
CLEVELAND

#2

HW

*Stead.*

UP 0230  
No. H163

MADE IN U.S.A.





FILE NO. 2

## INVENTORY FORM

FACILITY NAME American Recycling Co. OH# 000-720-110

DATE	TYPE OF DOCUMENT	TO:	FROM:
7-30-02	Letter w/ updated info on status of ARC	M. Glasgow	D. Koler
<del>000</del>	Haz waste manifest Form		
11-26-02	Letter to Chemtron requesting they pick up their materials	J. Williamson	D. Koler
12-10-02	File review request of ARC		Chemtron
12-19-02	Letter w/ manifest rejecting 3 Boxes of HID light bulbs	N. McHanna	C. Lee (Chemtron)
	Consent order & Final judgment		
2-7-03	Letter stating list of Customers is Confidential	J. Kuple	C. Jones
4-21-03	Unfulfilled Obligations Letter	D. Koler	S. Stone
6-19-03	Letter stating D. Koler is personally responsible since signing consent order	D. Koler	S. Stone
12-16-03	Letter stating charges of contempt will be filed if not compliant	D. Martala F. Marsh	L. Massey
12-22-03	" " " "	D. Koler	" "
1-21-04	Recvd no response - Request for info.	D. Martala F. Marsh	L. Massey
1-21-04	" " " "	J. Price	L. Massey
-	Court Documents		
1-30-04	Response to 1-21-04 letter	L. Massey	F. Marsh
4-15-04	Meeting list of attendees		
8-30-04	Owner NOV #1 letter	J. Cala	S. Stone
10-6-04	letter of response to NOV requesting help	S. Stone	J. Cala
10-26-04	Notes from phone call w/ J. Cala		S. Stone
10-26-04	NOV #2	J. Cala	S. Stone
	Letter to Senator Voinovich requesting help		J. Cala



## INTER-OFFICE COMMUNICATION

TO: Harry Sarvis, DHWM, CO,  
~~SA~~

FROM: Sherry Slone, DHWM, NEDO, through Natalie Oryshkewych, DHWM,  
NEDO

DATE: June 22, 2006

RE: ARC Site Visit

---

On June 5, 2006, Nyall McKenna and I visited the site of the former American Recycling Company. The site owner, Joe Cala, informed me during a phone call on May 16, 2006, that Chemtron had completed a clean out of the building. The purpose of the site visit was to confirm that the hazardous wastes left on-site by ARC had been removed and that the site was visually clean.

We met Mr. Cala and he showed us manifests and shipping orders for the removed wastes and provided us with copies. We toured the portion of the building that was previously occupied by ARC. The lamp processing equipment had been removed as well as all drums and containers of PCBs, hazardous wastes, screener fines, and glass. All that remained from ARC were some empty cardboard lamp containers and 1/2 drum of metal scraps that were planned to be recycled. The interior of the building was visually clean.

cc: John Schierberl, DHWM, CO



State of Ohio Environmental Protection Agency

STREET ADDRESS:

Lazarus Government Center  
122 S. Front Street  
Columbus, Ohio 43215

TELE: 614/644-3020 FAX: 614/644-3184

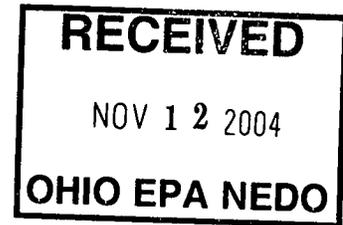
MAILING ADDRESS

P.O. Box 1049  
Columbus, OH 43216-1049

November 9, 2004

The Honorable Mike DeWine  
United States Senate  
37 West Broad Street, Room 300  
Columbus, Ohio 43215

The Honorable George Voinovich  
United States Senate  
37 West Broad Street, Room 300  
Columbus, Ohio 43215



Dear Senators DeWine and Voinovich:

This letter is in response to your recent letter regarding your constituent, Mr. Joe Cala. Mr. Cala had contacted your office pursuant to environmental hardships he is enduring as a small business property owner, due to hazardous waste violations that have occurred on his property. I appreciate the opportunity to respond to your concerns.

Mr. Cala is the owner of a building in Cleveland, a portion of which he leased to Drew Koler and the American Recycling Company (ARC) from 1999 to 2003. ARC recycled various types of spent fluorescent lamps which are considered hazardous waste because of their mercury content.

Ohio EPA staff first inspected ARC in March of 2001 and found significant hazardous waste violations. The Agency found, among other things, numerous drums of mercury waste from the lamp recycling process, 10 drums of ignitable hazardous waste solvent, and numerous boxes and pallets of unprocessed lamps at the ARC site.

In April of 2002, after a year of meetings and letters with ARC that were unsuccessful in achieving compliance with hazardous waste rules and laws, removal of all of the hazardous waste and clean-up of the site, I asked the Ohio Attorney General to file suit against Drew Koler and ARC. Mr. Koler informed my staff that he was experiencing financial problems and in the fall of 2002 closed the ARC business. On March 12, 2003, Mr. Koler on behalf of himself and ARC entered in to Consent Agreement with the State of Ohio, which required the removal and proper disposal of all hazardous waste from the ARC facility and proper clean-up of the site. Mr. Koler failed to act on these orders and in August of 2003 filed bankruptcy. In November 2003, the bankruptcy was dismissed due to Mr. Koler's lack of assets. In addition, AGO staff determined that ARC was a limited partnership and Koler was the only partner active in the day-to-day operations of the Facility. Thus, the remaining partners were merely investors and are not legally responsible for the violations

Bob Taft, Governor  
Jennette Bradley, Lieutenant Governor  
Christopher Jones, Director

at the site. Therefore, the AGO has not expended additional resources to pursue contempt because it is apparent Mr. Koler and ARC do not have the resources to remedy the violations.

In June of 2002, Mr. Koler made Mr. Cala aware of the hazardous waste violations and his financial problems. Mr. Cala was informed through several conversations with the Ohio EPA staff during that summer and fall that he is liable as owner of the property for the hazardous waste violations. Further, he was made aware that if Mr. Koler failed to address the hazardous waste issues, Ohio EPA would turn to him to address them.

Since at least the signing of the consent order in March of 2003, my staff has sent Mr. Cala courtesy copies of correspondence related to this facility. On April 15, 2004, Mr. Cala and his attorney met with Ohio EPA and AGO representatives to discuss the violations and his responsibility. He was provided with numerous fact sheets and resource information to help him begin to address the violations. However, no progress has been reported.

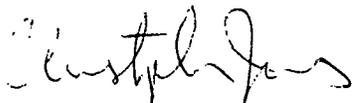
The Ohio EPA inspector sent a certified letter to Mr. Cala on August 30, 2004, restating the violations involved at this facility and asking him to provide a plan and schedule, within 30 days, to address the violations. My staff informs me that on October 6, 2004, they received a response from Mr. Cala but did not receive a plan or schedule. In his response, Mr. Cala states he does not have money available to pay for compliance.

Before receiving your inquiry, my staff talked with Mr. Cala on October 25, 2004. They reviewed with him the steps he needs to take to address the violations. They informed him that they would again send him fact sheets and resource information that would be helpful to him. Also they discussed what information he would need to submit to the Agency to support his claim of an inability to pay for disposal and clean-up. On October 26, 2004, they sent a second certified letter to Mr. Cala following up their phone conversation and asking for a plan and schedule, within 20 days, to address the violations.

As you can see, Ohio EPA has pursued Mr. Kohler and ARC to the furthest extent possible and have been attempting to work with Mr. Cala. While it is unfortunate that Mr. Cala was not aware of his tenant's affairs from the beginning, as owner of the facility he is still responsible to address the outstanding hazardous waste issues at the site.

I hope the enclosed information has been helpful. If you have any additional questions, please contact Laura Powell or Jennifer Klein of my legislative staff at (614) 644-2782.

Sincerely



Christopher Jones  
Director

**COVER MEMO**

- ( X ) Director's Signature ( ) Assistant Director's Signature  
 ( ) DRAFT - Governor's Signature ( ) Deputy Director's Signature  
 ( ) Background Investigation Report - CONFIDENTIAL

Subject: (MCR# 2277 ) Senators DeWine & Voinovich  
 (Joe Cala, Advance Handling & Storage Products)

Prepared by: Sherry Slone Division: DHWM Date: November 1, 2004

Blind Copies: Cheri Antonelli, DO, NEDO

NECESSARY APPROVALS	APPROVED BY	DATE
( ) Assistant Director	_____	__/__/__
( ) Deputy Director, Policy	_____	__/__/__
( ) Deputy Director, Communication	_____	__/__/__
( ) Deputy Director, Administration	_____	__/__/__
( ) Legal	_____	__/__/__
( ) Other	_____	__/__/__
( ) Other	_____	__/__/__

District Personnel Information		Division Personnel Information	
<b>Approvals:</b>	<b>Date:</b>	<b>Approvals:</b>	<b>Date:</b>
Supervisor <u>[Signature]</u>	<u>11/5/04</u>	Unit Supervisor _____	__/__/__
Manager <u>[Signature]</u>	<u>11/5/04</u>	Section Manager _____	__/__/__
Assistant Dist. Chief _____	__/__/__	Assistant Chief _____	__/__/__
District Chief <u>[Signature]</u>	<u>11/5/04</u>	Chief _____	__/__/__
Other _____	__/__/__	Other _____	__/__/__

**RETURN ALL SUPPORTING DOCUMENTS TO:**

Name: \_\_\_\_\_ Division: \_\_\_\_\_

Document Name: \_\_\_\_\_ WPS Initials/Date: \_\_\_\_\_

**Attachments:** CC:  Yes  No BC:  Yes  No

Other: \_\_\_\_\_



State of Ohio Environmental Protection Agency

STREET ADDRESS:

Lazarus Government Center  
122 S. Front Street  
Columbus, Ohio 43215

TELE: (614) 644-3020 FAX: (614) 644-3184

MAILING ADDRESS:

P.O. Box 1049  
Columbus, OH 43216-1049

**Re: Joe Cala  
Advance Handling & Storage Products**

Senator Mike DeWine  
37 West Broad St., Room 300  
Columbus, OH 43215

and

Senator George Voinovich  
37 West Broad St., Room 300  
Columbus, OH 43215

Dear Senators DeWine and Voinovich:

This letter is in response to your October 25, 2004, inquiry regarding concerns brought to your attention in a letter from Joe Cala. Mr. Cala had contacted your office pursuant to environmental hardships he is enduring as a small business property owner, due to hazardous waste violations that have occurred on his property. Hopefully, the information provided below will clarify this situation.

Mr. Cala is the owner of a building in Cleveland, a portion of which he leased to Drew Koler and the American Recycling Company (ARC) from 1999 to 2003. ARC recycled various types of spent fluorescent lamps which are considered hazardous waste because of their mercury content.

Ohio EPA staff first inspected ARC in March of 2001 and found significant hazardous waste violations. The Agency found, among other things, numerous drums of mercury waste from the lamp recycling process, 10 drums of ignitable hazardous waste solvent, and numerous boxes and pallets of unprocessed lamps at the ARC site.

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Bob Taft, Governor  
Jennette Bradley, Lieutenant Governor  
Christopher Jones, Director

SENATOR MIKE DEWINE AND SENATOR GEORGE VOINOVICH  
PAGE 2

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SENATOR MIKE DEWINE AND SENATOR GEORGE VOINOVICH  
PAGE 3

Should you have further questions concerning this matter, you can contact Sherry Slone at (330) 963-1226.

Sincerely

Christopher Jones  
Director

CJ:SS:pb

ec: Sherry Slone, Ohio EPA, DHWM, NEDO  
Natalie Oryshkewych, Ohio EPA, DHWM, NEDO  
Jeanette Smith, Ohio EPA, DHWM, CO  
Harry Sarvis, Ohio EPA, DHWM, CO



OFFICE OF THE DIRECTOR

MAIL CONTROL RECORD - Legislative

Date: 11/11/04 MCR# 2277

To: 1111 P... / NED

Reply Direct

Prepare Reply for Director's Signature

Constituent Name Senator J. ...

Date Due: 11/11/04

Date Answered: 11/09/04

By: Sherry ... (DHLM/NED)

Comments: (Please have Laura Powell sign off before Director signs.)

\* ORIGINALS RETURNED TO  
ANN KLEIN, (DIR. OFFICE)

**RECEIVED**  
NOV 12 2004  
**OHIO EPA NEDO**

**RETURN #3 (Pink) COPY ALONG WITH RESPONSE TO DIRECTOR'S OFFICE**

Distribution:  
White: Division/Program Chief  
Canary: Preparer  
Pink: Director's Office

OHIO EPA  
State of Ohio Environmental Protection Agency

Director's Office Number **13588**

**COVER MEMO**

- Director's Signature
- Assistant Director's Signature
- DRAFT - Governor's Signature
- Deputy Director's Signature
- Background Investigation Report - CONFIDENTIAL

Subject: (MCR# 2277 ) Senators DeWine & Voinovich  
(Joe Cala, Advance Handling & Storage Products)

Prepared by: Sherry Slone Division: DHWM Date: November 1, 2004

Blind Copies: Cheri Antonelli, DO, NEDO, Sherry Slone (DHWM/NED), Natalie Kryshkewych (DHWM/NED),

NECESSARY APPROVALS	APPROVED BY	DATE
<input type="checkbox"/> Assistant Director	<u>Janette Smith (DHWM/CO)</u>	<u>1/1</u>
<input type="checkbox"/> Deputy Director, Policy		<u>1/1</u>
<input type="checkbox"/> Deputy Director, Communication		<u>1/1</u>
<input type="checkbox"/> Deputy Director, Administration		<u>1/1</u>
<input type="checkbox"/> Legal		<u>1/1</u>
<input type="checkbox"/> Other: <u>Janet Kline</u>	<u>[Signature]</u>	<u>11/5/04</u>
<input type="checkbox"/> Other		<u>1/1</u>

District Personnel Information		Division Personnel Information	
Approvals:	Date:	Approvals:	Date:
Supervisor <u>[Signature]</u>	<u>11/5/04</u>	Unit Supervisor	<u>1/1</u>
Manager <u>[Signature]</u>	<u>11/5/04</u>	Section Manager	<u>1/1</u>
Assistant Dist. Chief	<u>1/1</u>	Assistant Chief	<u>1/1</u>
District Chief <u>[Signature]</u>	<u>11/5/04</u>	Chief	<u>1/1</u>
Other	<u>1/1</u>	Other	<u>1/1</u>

RETURN ALL SUPPORTING DOCUMENTS TO:

Name: Janette Smith Division: DHWM

Document Name: \_\_\_\_\_ WPS Initials/Date: \_\_\_\_\_

Attachments: CC:  Yes  No BC:  Yes  No

Other: \_\_\_\_\_



State of Ohio Environmental Protection Agency

STREET ADDRESS:

Lazarus Government Center  
122 S. Front Street  
Columbus, Ohio 43215

TELE: (614) 644-3020 FAX: (614) 644-3184

MAILING ADDRESS:

P.O. Box 1049  
Columbus, OH 43216-1049

November 9, 2004

The Honorable Mike DeWine  
United States Senate  
37 West Broad Street, Room 300  
Columbus, Ohio 43215

The Honorable George Voinovich  
United States Senate  
37 West Broad Street, Room 300  
Columbus, Ohio 43215

Dear Senators DeWine and Voinovich:

This letter is in response to your recent letter regarding your constituent, Mr. Joe Cala. Mr. Cala had contacted your office pursuant to environmental hardships he is enduring as a small business property owner, due to hazardous waste violations that have occurred on his property. I appreciate the opportunity to respond to your concerns.

Mr. Cala is the owner of a building in Cleveland, a portion of which he leased to Drew Koler and the American Recycling Company (ARC) from 1999 to 2003. ARC recycled various types of spent fluorescent lamps which are considered hazardous waste because of their mercury content.

Ohio EPA staff first inspected ARC in March of 2001 and found significant hazardous waste violations. The Agency found, among other things, numerous drums of mercury waste from the lamp recycling process, 10 drums of ignitable hazardous waste solvent, and numerous boxes and pallets of unprocessed lamps at the ARC site.

In April of 2002, after a year of meetings and letters with ARC that were unsuccessful in achieving compliance with hazardous waste rules and laws, removal of all of the hazardous waste and clean-up of the site, I asked the Ohio Attorney General to file suit against Drew Koler and ARC. Mr. Koler informed my staff that he was experiencing financial problems and in the fall of 2002 closed the ARC business. On March 12, 2003, Mr. Koler on behalf of himself and ARC entered in to Consent Agreement with the State of Ohio, which required the removal and proper disposal of all hazardous waste from the ARC facility and proper clean-up of the site. Mr. Koler failed to act on these orders and in August of 2003 filed bankruptcy. In November 2003, the bankruptcy was dismissed due to Mr. Koler's lack of assets. In addition, AGO staff determined that ARC was a limited partnership and Koler was the only partner active in the day-to-day operations of the Facility. Thus, the remaining partners were merely investors and are not legally responsible for the violations

Bob Taft, Governor  
Jennette Bradley, Lieutenant Governor  
Christopher Jones, Director

at the site. Therefore, the AGO has not expended additional resources to pursue contempt because it is apparent Mr. Koler and ARC do not have the resources to remedy the violations.

In June of 2002, Mr. Koler made Mr. Cala aware of the hazardous waste violations and his financial problems. Mr. Cala was informed through several conversations with the Ohio EPA staff during that summer and fall that he is liable as owner of the property for the hazardous waste violations. Further, he was made aware that if Mr. Koler failed to address the hazardous waste issues, Ohio EPA would turn to him to address them.

Since at least the signing of the consent order in March of 2003, my staff has sent Mr. Cala courtesy copies of correspondence related to this facility. On April 15, 2004, Mr. Cala and his attorney met with Ohio EPA and AGO representatives to discuss the violations and his responsibility. He was provided with numerous fact sheets and resource information to help him begin to address the violations. However, no progress has been reported.

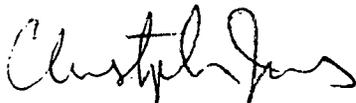
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As you can see, Ohio EPA has pursued Mr. Kohler and ARC to the furthest extent possible and have been attempting to work with Mr. Cala. While it is unfortunate that Mr. Cala was not aware of his tenant's affairs from the beginning, as owner of the facility he is still responsible to address the outstanding hazardous waste issues at the site.

I hope the enclosed information has been helpful. If you have any additional questions, please contact Laura Powell or Jennifer Klein of my legislative staff at (614) 644-2782.

Sincerely



Christopher Jones  
Director



STREET ADDRESS:

Lazarus Government Center  
122 S. Front Street  
Columbus, Ohio 43215

TELE: (614) 644-3020 FAX: (614) 644-3184

MAILING ADDRESS:

P.O. Box 1049  
Columbus, OH 43216-1049

The Honorable Mike DeWine  
United States Senate  
37 West Broad Street, Room 300  
Columbus, Ohio 43215

The Honorable George Voinovich  
United States Senate  
37 West Broad Street, Room 300  
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Sincerely

Christopher Jones  
Director



State of Ohio Environmental Protection Agency

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Lazarus Government Center  
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MAILING ADDRESS:

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*The Honorable*  
*United State Senate*  
Senator Mike DeWine  
37 West Broad St., Room 300  
Columbus, OH 43215

*The Honorable Ohio*  
*United State Senate*  
Senator George Voinovich  
37 West Broad St., Room 300  
Columbus, OH 43215  
*Ohio*

**Re: Joe Cala**  
**Advance Handling & Storage Products**

Dear Senators DeWine and Voinovich:

This letter is in response to your October 25, 2004, inquiry regarding concerns brought to your attention in a letter from Joe Cala. Mr. Cala had contacted your office pursuant to environmental hardships he is enduring as a small business property owner, due to hazardous waste violations that have occurred on his property. Hopefully, the information provided below will clarify this situation.

Mr. Cala is the owner of a building in Cleveland, a portion of which he leased to Drew Koler and the American Recycling Company (ARC) from 1999 to 2003. ARC recycled various types of spent fluorescent lamps which are considered hazardous waste because of their mercury content.

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Bob Taft, Governor  
Jennette Bradley, Lieutenant Governor  
Christopher Jones, Director

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SENATOR MIKE DEWINE AND SENATOR GEORGE VOINOVICH  
PAGE 3

~~Should you have further questions concerning this matter, you can contact Sherry Slone at (330) 963-1226.~~

Sincerely

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Christopher Jones  
Director

~~CJ:SS:pb~~

ec: ~~Sherry Slone, Ohio EPA, DHWM, NEDO~~  
~~Natalie Oryshkewych, Ohio EPA, DHWM, NEDO~~  
~~Jeanette Smith, Ohio EPA, DHWM, CO~~  
~~Harry Sarvis, Ohio EPA, DHWM, CO~~



State of Ohio Environmental Protection Agency

Northeast District Office

2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE: (330) 425-9171 FAX: (330) 487-0769

Bob Taft, Governor  
Maureen O'Connor, Lt. Governor  
Christopher Jones, Director

### FAX Transmittal Sheet

To:

Supora Johnson, Director's Office

Fax Number:

1-(614) 644-3184

Subject:

MCR 2277-Attached COVER MEMO

From:

Ron Bond DHWM NEDO

Date:

5 Nov 2004

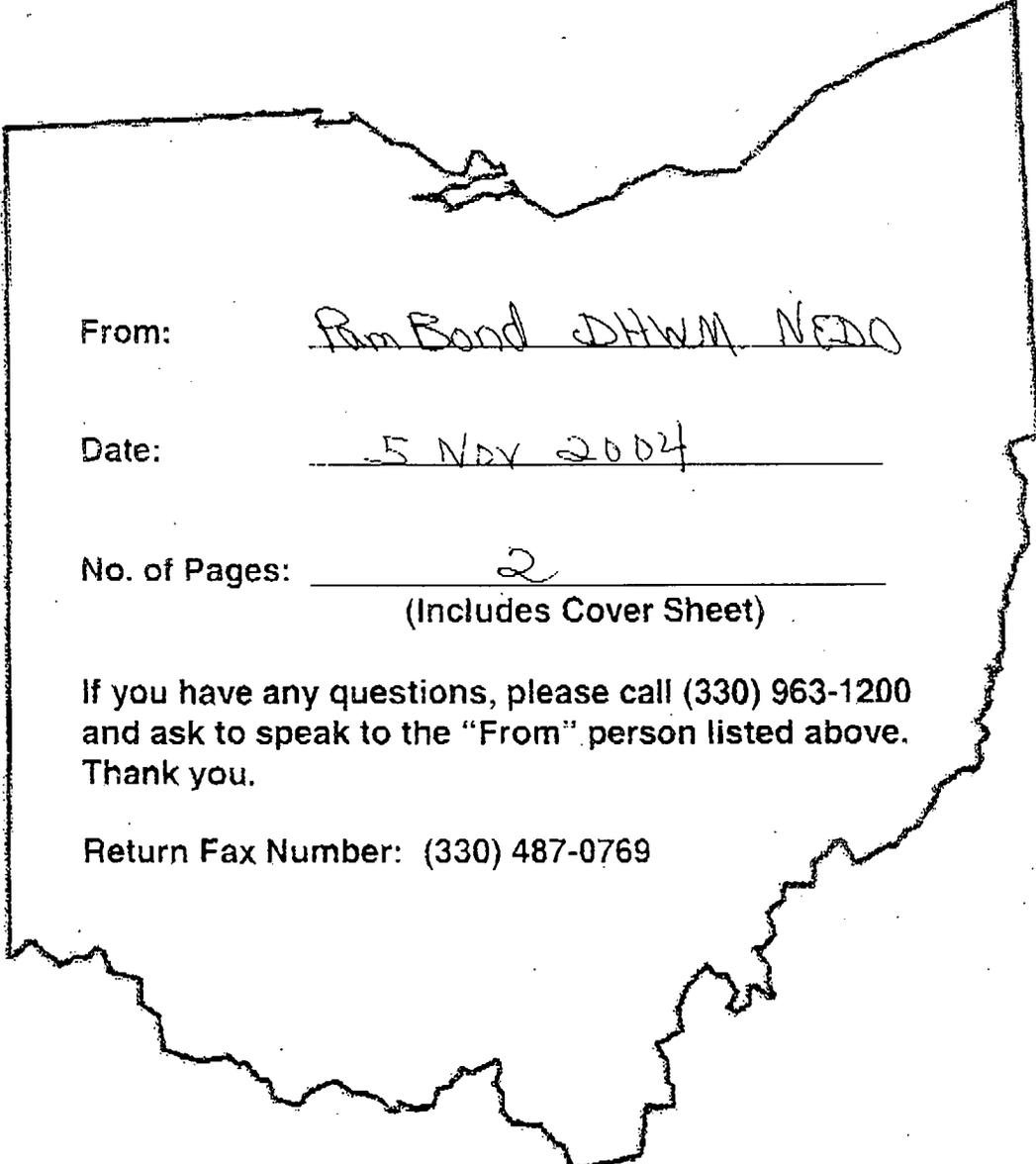
No. of Pages:

2

(Includes Cover Sheet)

If you have any questions, please call (330) 963-1200  
and ask to speak to the "From" person listed above.  
Thank you.

Return Fax Number: (330) 487-0769



MIKE DeWINE  
UNITED STATES SENATOR  
OHIO

GEORGE VOINOVICH  
UNITED STATES SENATOR  
OHIO

# United States Senate

WASHINGTON, DC 20510-3504

CASEWORK HOTLINE: (800) 205-OHIO (6446)

October 25, 2004

Mr. Christopher Jones  
Director  
Ohio Environmental Protection Agency  
122 S. Front St.  
P.O. Box 1049  
Columbus, Ohio 43226

Dear Mr. Jones:

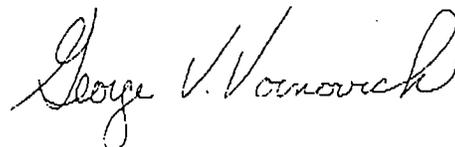
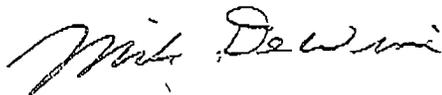
We are enclosing the correspondence that we received from a constituent, Joseph Cala, requesting our assistance with a violation by a tenant of the Ohio Revised Code.

We would appreciate your reviewing this information, and responding to our Casework Office located at 37 W. Broad Street, Suite 300, Columbus, OH 43215, at your earliest convenience.

If you need additional information, please do not hesitate to contact our office at (614) 469-6774.

Very respectfully yours,

Sincerely Yours,



MIKE DeWINE  
United States Senator

GEORGE VOINOVICH  
United States Senator

RMD/GVV/KB

*Please refer to Kurt Pranic (DHUW/NEDO)*

37 WEST BROAD STREET, ROOM 320  
COLUMBUS, OHIO 43215  
(614) 469-6774 / Fax: 469-7419

# ADVANCE HANDLING & STORAGE PRODUCTS

3203 W. 71 ST • CLEVELAND, OHIO 44102 • (216) 651-4477 • FAX (216) 651-7559

SENATOR GEORGE V. VOINOVICH  
37 WEST BROAD STREET #300  
COLUMBUS, OHIO 43215

RECEIVED  
OCT 25 2004

ATTN:KATE BOWER

Dear Senator Voinovich:

I need your help. I own a warehouse on W 71<sup>st</sup> Street in Cleveland. In 1999 I leased a portion to Mr. Drew Kolar, Managing Partner, of American Recycling Company (ARC). They recycled Fluorescent light tubes. They have a large machine that smashes the tubes, separates the glass and sends the hazardous waste into a sealed container. When they moved in, they brought their operating equipment, office furniture and about 400-55 gal. Sealed drums that I later learned contained electrical ballasts, many of which contain PCB. I did not know they were hazardous materials at that time.

Our relationship was normal as any lessor and lessee until June 2002. He wrote me about some problems with the Ohio EPA as he had some violations. He was cited for illegal transport and illegal storage. He wrote me that he did not have funds to dispose of the drums of ballasts that he estimated at \$ 60,000.00. The ballasts were never processed here; they were moved here and stored.

ARC continued to process light tubes and had frequent visits by the Ohio EPA. ARC finally stopped doing business and was taken to court several times by the OEPA for not complying with their orders. ARC signed a consent order in Judge Mc Cafferty's court in March 2003 in which Kolar agreed to clean up the hazard waste he left behind. He did nothing. ARC filed Bankruptcy. The OEPA did not feel it necessary to prosecute for contempt of court so they are coming after me to clean up the hazardous materials he left behind at an estimated cost well in excess of \$ 200,000.00. I have no money.

ARC left all of the drums of ballasts mentioned above, plus all the materials listed in the attached letter from the OEPA. ARC committed several unlawful acts. ARC ignored a consent order signed before a Judge. The OEPA chose not to prosecute ARC and is coming after me for clean up and accusing me of violating a law. I do not have funds to do this and feel I am being forced to pay for ARC's crime.

Senator, I'm hoping there is a fund somewhere to pay for this disposal. The fund that EPA violators pay into should be used for situations like this. I am 71 years old and still working. The only asset I have is the equity in this warehouse. If the Federal Government cleans this up at my expense. I will have nothing. Help.

Yours very truly,

  
JOE CALA



State of Ohio Environmental Protection Agency

## Northeast District Office

2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

August 30, 2004

RE: AMERICAN RECYCLING COMPANY  
3203 W. 71<sup>ST</sup> ST.  
OWNER NOV #1CERTIFIED MAIL**RECEIVED**

OCT 8 5 2004

Mr. Joe Cala, Owner  
Advance Handling  
3203 W. 71<sup>st</sup> St.  
Cleveland, OH 44102

Dear Mr. Cala:

As you know, Drew Koler signed a consent order, individually and on behalf of American Recycling, on March 12, 2003, concerning hazardous waste violations at your property at 3203 W. 71<sup>st</sup> Street in Cleveland. Without having addressed those violations, on August 18, 2003, Mr. Koler filed a voluntary petition for bankruptcy and on March 23, 2004 the bankruptcy was discharged. Without remedy from Drew Koler and American Recycling, Ohio EPA must now turn to you as the owner of the property to address the hazardous waste violations.

Ohio Revised Code (O.R.C.) 3734.02(F) states that no person shall treat, store, or dispose of hazardous waste without a hazardous waste facility installation and operation permit. Hazardous waste has been stored unpermitted at this site well beyond 90 days (some since at least July 31, 2002) in violation of this law. Also because of this violation, you are subject to all applicable general facility standards found in Ohio Administrative Code (OAC) 3745-54 and -55.

Our records indicate there are 56 drums of process wastes left on-site. One of these is hazardous based on sample results, 23 are non-hazardous, and 32 need to be evaluated. There are also 17 gaylords of glass, 7 gaylords of glass with metal, containers of spent lamps, computers and batteries that all need to be sent off-site for recycling or evaluated to determine if hazardous or not and then disposed of properly. On August 13, 2004, you indicated via phone, that 8-10 skids and 3 drums of materials with customer's names on them will be attempted to be sent back to those customers. You also said you were investigating the disposal options for the gaylords of glass.

To begin to address the hazardous waste violations, you will need to submit to this office a schedule and plan for the evaluation of the remaining wastes and for the recycling or disposal of those that are hazardous. You will need to submit a closure plan that describes how you will meet the requirements of Ohio Administrative Code (OAC) 3745-66-11(A)&(B)



AMERICAN RECYCLING COMPANY  
AUGUST 30, 2004  
PAGE 2

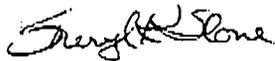
and 3745-66-14 for all areas of the facility where hazardous wastes were stored and generated and for all equipment and structures contaminated with hazardous constituents.

**Please submit the schedule and plans within 30 days of the date of this letter, to my attention at this office.** If you have any questions related to this letter feel free to call me at (330) 963-1226.

During our telephone conversation on August 13, 2004, you had asked about the availability of the hazardous waste clean-up fund (created under ORC 3734.28) for your efforts at this site. ORC 3734.20 through 3734.27 regulate how that money can be expended. In general, these funds are not available directly to a landowner. These funds would be available to Ohio EPA to abate conditions at a site which poses a threat to human health and the environment. After incurring these costs, Ohio EPA would seek reimbursement to the hazardous waste clean-up fund from the property owner and if not forthcoming would place a lien on the property.

Please note the above does not address any issues related to the over 300 drums of PCB and ballast wastes noted at the facility during our initial March 12, 2001 inspection. Authority for regulation of these wastes lies with the U. S. EPA who was informed of the situation on April 27, 2001.

Sincerely



Sheryl K. Slone, P.E.  
Environmental Engineer  
Division of Hazardous Waste Management

SKS:pb

cc: Natalie Oryshkevych, Ohio EPA, DHWM, NEDO

ec: Jeanette Smith  
Harry Sarvis, Ohio EPA, DHWM, CO  
Bob Cheugh, AGO

**NOTICE:**

Ohio EPA's failure to list specific deficiencies or violations in this letter does not relieve your company from having to comply with all applicable regulations.



State of Ohio Environmental Protection Agency

**STREET ADDRESS:**

Lazarus Government Center  
122 S. Front Street  
Columbus, Ohio 43215

TELE: (614) 644-3020 FAX: (614) 644-3184

**MAILING ADDRESS:**

P.O. Box 1049  
Columbus, OH 43216-1049

**FROM THE OFFICE OF THE DIRECTOR**

Please Deliver These Faxed Copies To:

NAME: Cheri Antonelli

COMPANY: OEPA ~ NEDO

FAX NUMBER: (330) 487-0769

DATE: October 25, 2004

PAGES (Including Cover Sheet) 6

SENDER: Supora Johnson

If you do not receive all of the pages and/or any problems arise during transmission, please call 614-644-2782 for assistance.

Director's Office Facsimile Number: 614-644-3184

\*\*\*\*\*

Comments:

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Bob Taft, Governor  
Jennette Bradley, Lieutenant Governor  
Christopher Jones, Director

# MESSAGE CONFIRMATION

10/25/2004 12:01  
ID=OHIO EPA DIRECTORS OFFICE

DATE	S,R-TIME	DISTANT STATION ID	MODE	PAGES	RESULT
10/25	00'56"	3304870769	TX	006	OK 0000

10/25/2004 12:00 OHIO EPA DIRECTORS OFFICE → NEDO NO.772 0001



State of Ohio Environmental Protection Agency

**STREET ADDRESS:**

Lazarus Government Center  
122 S. Front Street  
Columbus, Ohio 43215

TELE: (614) 644-3320 FAX: (614) 644-3184

**MAILING ADDRESS:**

P.O. Box 1049  
Columbus, OH 43216-1049

## FROM THE OFFICE OF THE DIRECTOR

Please Deliver These Faxed Copies To:

NAME: Cheri Antonelli

COMPANY: OEPA ~ NEDO

FAX NUMBER: (330) 487-0769

DATE: October 25, 2004

PAGES (Including Cover Sheet) 6

SENDER: Supora Johnson

If you do not receive all of the pages and/or any problems arise during transmission,

**COVER MEMO**

- ( X ) Director's Signature ( ) Assistant Director's Signature  
 ( ) DRAFT - Governor's Signature ( ) Deputy Director's Signature  
 ( ) Background Investigation Report - CONFIDENTIAL

Subject: (MCR# 2277 ) Senators DeWine & Voinovich  
 (Joe Cala, Advance Handling & Storage Products)

Prepared by: Sherry Stone Division: DHWM Date: November 1, 2004

Blind Copies: Cheri Antonelli, DO, NEDO

NECESSARY APPROVALS	APPROVED BY	DATE
( ) Assistant Director	_____	__/__/__
( ) Deputy Director, Policy	_____	__/__/__
( ) Deputy Director, Communication	_____	__/__/__
( ) Deputy Director, Administration	_____	__/__/__
( ) Legal	_____	__/__/__
( ) Other	_____	__/__/__
( ) Other	_____	__/__/__

District Personnel Information		Division Personnel Information	
Approvals:	Date:	Approvals:	Date:
Supervisor <u>[Signature]</u>	<u>11/5/04</u>	Unit Supervisor _____	__/__/__
Manager <u>[Signature]</u>	<u>11/5/04</u>	Section Manager _____	__/__/__
Assistant Dist. Chief _____	__/__/__	Assistant Chief _____	__/__/__
District Chief <u>[Signature]</u>	<u>11/5/04</u>	Chief _____	__/__/__
Other _____	__/__/__	Other _____	__/__/__

**RETURN ALL SUPPORTING DOCUMENTS TO:**

Name: \_\_\_\_\_ Division: \_\_\_\_\_

Document Name: _____	WPS Initials/Date: _____
<b>Attachments:</b>	CC: <input type="checkbox"/> Yes <input type="checkbox"/> No
	BC: <input type="checkbox"/> Yes <input type="checkbox"/> No
	Other: _____



**STREET ADDRESS:**

Lazarus Government Center  
122 S. Front Street  
Columbus, Ohio 43215

TELE: (614) 644-3020 FAX: (614) 644-3184

**MAILING ADDRESS:**

P.O. Box 1049  
Columbus, OH 43216-1049

**Re: Joe Cala  
Advance Handling & Storage Products**

Senator Mike DeWine  
37 West Broad St., Room 300  
Columbus, OH 43215

and

Senator George Voinovich  
37 West Broad St., Room 300  
Columbus, OH 43215

Dear Senators DeWine and Voinovich:

This letter is in response to your October 25, 2004, inquiry regarding concerns brought to your attention in a letter from Joe Cala. Mr. Cala had contacted your office pursuant to environmental hardships he is enduring as a small business property owner, due to hazardous waste violations that have occurred on his property. Hopefully, the information provided below will clarify this situation.

Mr. Cala is the owner of a building in Cleveland, a portion of which he leased to Drew Koler and the American Recycling Company (ARC) from 1999 to 2003. ARC recycled various types of spent fluorescent lamps which are considered hazardous waste because of their mercury content.

Ohio EPA staff first inspected ARC in March of 2001 and found significant hazardous waste violations. The Agency found, among other things, numerous drums of mercury waste from the lamp recycling process, 10 drums of ignitable hazardous waste solvent, and numerous boxes and pallets of unprocessed lamps at the ARC site.

In April of 2002, after a year of meetings and letters with ARC that were unsuccessful in achieving compliance with hazardous waste rules and laws, removal of all of the hazardous waste and clean-up of the site, I asked the Ohio Attorney General to file suit against Drew Koler and ARC. Mr. Koler informed my staff that he was experiencing financial problems and in the fall of 2002 closed the ARC business. On March 12, 2003, Mr. Koler on behalf

Bob Taft, Governor  
Jennette Bradley, Lieutenant Governor  
Christopher Jones, Director

SENATOR MIKE DEWINE AND SENATOR GEORGE VOINOVICH  
PAGE 2

of himself and ARC entered in to Consent Agreement with the State of Ohio, which required the removal and proper disposal of all hazardous waste from the ARC facility and proper clean-up of the site. Mr. Koler failed to act on these orders and in August of 2003 filed bankruptcy. In November 2003, the bankruptcy was dismissed due to Mr. Koler's lack of assets. In addition, AGO staff determined that ARC was a limited partnership and Koler was the only partner active in the day-to-day operations of the Facility. Thus, the remaining partners were merely investors and are not legally responsible for the violations at the site. Therefore, the AGO has not expended additional resources to pursue contempt because it is apparent Mr. Koler and ARC do not have the resources to remedy the violations.

In June of 2002, Mr. Koler made Mr. Cala aware of the hazardous waste violations and his financial problems. Mr. Cala was informed through several conversations with the Ohio EPA staff during that summer and fall that he is liable as owner of the property for the hazardous waste violations. Further he was made aware that if Mr. Koler failed to address the hazardous waste issues, Ohio EPA would turn to him to address them.

Since at least the signing of the consent order in March of 2003, my staff have sent Mr. Cala courtesy copies of correspondence related to this facility. On April 15, 2004, Mr. Cala and his attorney met with Ohio EPA and AGO representatives to discuss the violations and his responsibility. He was provided with numerous fact sheets and resource information to help him begin to address the violations. However, no progress has been reported.

The Ohio EPA inspector sent a certified letter to Mr. Cala on August 30, 2004, restating the violations involved at this facility and asking him to provide a plan and schedule, within 30 days, to address the violations. My staff informs me that on October 6, 2004, they received a response from Mr. Cala but did not receive a plan or schedule. In his response, Mr. Cala states he does not have money available to pay for compliance.

Before receiving your inquiry, my staff talked with Mr. Cala on October 25, 2004. They reviewed with him the steps he needs to take to address the violations. They informed him that they would again send him fact sheets and resource information that would be helpful to him. Also they discussed what information he would need to submit to the Agency to support his claim of an inability to pay for disposal and clean-up. On October 26, 2004, they sent a second certified letter to Mr. Cala following up their phone conversation and asking for a plan and schedule, within 20 days, to address the violations.

As you can see, Ohio EPA has pursued Mr. Kohler and ARC to the furthest extent possible and have been amicably working with Mr. Cala. While it is unfortunate that Mr. Cala was not aware of his tenant's affairs from the beginning, as owner of the facility he is still responsible to address the outstanding hazardous waste issues at the site.

SENATOR MIKE DEWINE AND SENATOR GEORGE VOINOVICH  
PAGE 3

Should you have further questions concerning this matter, you can contact Sherry Slone at (330) 963-1226.

Sincerely

Christopher Jones  
Director

CJ:SS:pb

ec: Sherry Slone, Ohio EPA, DHWM, NEDO  
Natalie Oryshkewych, Ohio EPA, DHWM, NEDO  
Jeanette Smith, Ohio EPA, DHWM, CO  
Harry Sarvis, Ohio EPA, DHWM, CO



OFFICE OF THE DIRECTOR

MAIL CONTROL RECORD - Legislative

Date: 10/25/04 MCR# 2277

To: Kurt Princic - DHWM/NEYS

Reply Direct

Prepare Reply for Director's Signature

Constituent Name: Senators DeWine + Voinovich

Date Due: 11/01/04

Date Answered:            /         

By: \_\_\_\_\_

Comments: (Please have Laura Powell sign off before Director signs.)

**\*** KP - please let me know who you forward this to for a response -

*[Handwritten signature]*

RETURN #3 (Pink) COPY ALONG WITH RESPONSE TO DIRECTOR'S OFFICE

Distribution:  
White: Division/Program Chief  
Canary: Preparer  
Pink: Director's Office

10/25/2004

12:00

OHIO EPA DIRECTORS OFFICE → NEDO

NO. 772

D002

MIKE DeWINE  
UNITED STATES SENATOR  
OHIO

GEORGE VOINOVICH  
UNITED STATES SENATOR  
OHIO

## United States Senate

WASHINGTON, DC 20510-3504  
CASEWORK HOTLINE: (800) 205-OHIO (6446)

October 25, 2004

Mr. Christopher Jones  
Director  
Ohio Environmental Protection Agency  
122 S. Front St.  
P.O. Box 1049  
Columbus, Ohio 43226

Dear Mr. Jones:

We are enclosing the correspondence that we received from a constituent, Joseph Cala, requesting our assistance with a violation by a tenant of the Ohio Revised Code.

We would appreciate your reviewing this information, and responding to our Casework Office located at 37 W. Broad Street, Suite 300, Columbus, OH 43215, at your earliest convenience.

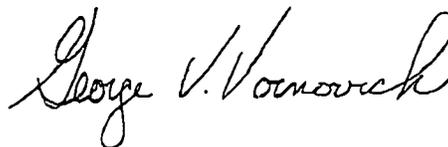
If you need additional information, please do not hesitate to contact our office at (614) 469-6774.

Very respectfully yours,

Sincerely Yours,



MIKE DeWINE  
United States Senator



GEORGE VOINOVICH  
United States Senator

RMD/GVV/KB

# ADVANCE HANDLING & STORAGE PRODUCTS

3203 W. 71 ST • CLEVELAND, OHIO 44102 • (216) 651-4477 • FAX (216) 651-7559

SENATOR GEORGE V. VOINOVICH  
37 WEST BROAD STREET #300  
COLUMBUS, OHIO 43215

RECEIVED  
OCT 05 2004

ATTN:KATE BOWER

Dear Senator Voinovich:

I need your help. I own a warehouse on W 71<sup>st</sup> Street in Cleveland. In 1999 I leased a portion to Mr. Drew Kolar, Managing Partner, of American Recycling Company (ARC). They recycled Fluorescent light tubes. They have a large machine that smashes the tubes, separates the glass and sends the hazardous waste into a sealed container. When they moved in, they brought their operating equipment, office furniture and about 400-55 gal. Sealed drums that I later learned contained electrical ballasts, many of which contain PCB. I did not know they were hazardous materials at that time.

Our relationship was normal as any lessor and lessee until June 2002. He wrote me about some problems with the Ohio EPA as he had some violations. He was cited for illegal transport and illegal storage. He wrote me that he did not have funds to dispose of the drums of ballasts that he estimated at \$ 60,000.00. The ballasts were never processed here; they were moved here and stored.

ARC continued to process light tubes and had frequent visits by the Ohio EPA. ARC finally stopped doing business and was taken to court several times by the OEPA for not complying with their orders. ARC signed a consent order in Judge Mc Cafferty's court in March 2003 in which Kolar agreed to clean up the hazard waste he left behind. He did nothing. ARC filed Bankruptcy. The OEPA did not feel it necessary to prosecute for contempt of court so they are coming after me to clean up the hazardous materials he left behind at an estimated cost well in excess of \$ 200,000.00. I have no money.

ARC left all of the drums of ballasts mentioned above, plus all the materials listed in the attached letter from the OEPA. ARC committed several unlawful acts. ARC ignored a consent order signed before a Judge. The OEPA chose not to prosecute ARC and is coming after me for clean-up and accusing me of violating laws. I do not have funds to do this and feel I am being forced to pay for ARC's crime.

Senator, I'm hoping there is a fund somewhere to pay for this disposal. The fund that EPA violators pay into should be used for situations like this. I am 71 years old and still working. The only asset I have is the equity in this warehouse. If the Federal Government cleans this up at my expense, I will have nothing. Help.

Yours very truly,

  
JOE CALA

DeWINE/VOJNOVICH CASEWRI  
**USEPA**

State of Ohio Environmental Protection Agency  
Northeast District Office

2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

August 30, 2004

RE: AMERICAN RECYCLING COMPANY  
3203 W. 71<sup>ST</sup> ST.  
OWNER NOV #1

CERTIFIED MAIL

**RECEIVED**

OCT 05 2004

Mr. Joe Cala, Owner  
Advance Handling  
3203 W. 71<sup>st</sup> St.  
Cleveland, OH 44102

Dear Mr. Cala:

As you know, Drew Koler signed a consent order, individually and on behalf of American Recycling, on March 12 2003, concerning hazardous waste violations at your property at 3203 W. 71<sup>st</sup> Street in Cleveland. Without having addressed those violations, on August 18, 2003, Mr. Koler filed a voluntary petition for bankruptcy and on March 23, 2004 the bankruptcy was discharged. Without remedy from Drew Koler and American Recycling, Ohio EPA must now turn to you as the owner of the property to address the hazardous waste violations.

Ohio Revised Code (ORC) 3734.02(F) states that no person shall treat, store, or dispose of hazardous waste without a hazardous waste facility installation and operation permit. Hazardous waste has been stored unpermitted at this site well beyond 90 days (some since at least July 31, 2002) in violation of this law. Also because of this violation, you are subject to all applicable general facility standards found in Ohio Administrative Code (OAC) 3745-54 and -55.

Our records indicate there are 56 drums of process wastes left on-site. One of these is hazardous based on sample results; 23 are non-hazardous, and 32 need to be evaluated. There are also 17 gaylords of glass, 7 gaylords of glass with metal, containers of spent lamps, computers and batteries that all need to be sent off-site for recycling or evaluated to determine if hazardous or not and then disposed of properly. On August 13, 2004, you indicated via phone, that 8-10 skids and 3 drums of materials with customer's names on them will be attempted to be sent back to those customers. You also said you were investigating the disposal options for the gaylords of glass.

To begin to address the hazardous waste violations, you will need to submit to this office a schedule and plan for the evaluation of the remaining wastes and for the recycling or disposal of those that are hazardous. You will need to submit a closure plan that describes how you will meet the requirements of Ohio Administrative Code (OAC) 3745-66-11(A)&(B)

AMERICAN RECYCLING COMPANY  
AUGUST 30, 2004  
PAGE 2

and 3745-66-14 for all areas of the facility where hazardous wastes were stored and generated and for all equipment and structures contaminated with hazardous constituents.

**Please submit the schedule and plans within 30 days of the date of this letter, to my attention at this office.** If you have any questions related to this letter feel free to call me at (330) 963-1226.

During our telephone conversation on August 13, 2004, you had asked about the availability of the hazardous waste clean-up fund (created under ORC 3734.28) for your efforts at this site. ORC 3734.20 through 3734.27 regulate how that money can be expended. In general, these funds are not available directly to a landowner. These funds would be available to Ohio EPA to abate conditions at a site which poses a threat to human health and the environment. After incurring these costs, Ohio EPA would seek reimbursement to the hazardous waste clean-up fund from the property owner and if not forthcoming would place a lien on the property.

Please note the above does not address any issues related to the over 300 drums of PCB and ballast wastes noted at the facility during our initial March 12, 2001 inspection. Authority for regulation of these wastes lies with the U. S. EPA who was informed of the situation on April 27, 2001.

Sincerely



Sheryl K. Slone, P.E.  
Environmental Engineer  
Division of Hazardous Waste Management

SKS:pb

cc: Natalie Oryshkevych, Ohio EPA, DHWM, NEDO

ec: Jeanette Smith  
Harry Sarvis, Ohio EPA, DHWM, CO  
Bob Cheugh, AGO

**NOTICE:**

Ohio EPA's failure to list specific deficiencies or violations in this letter does not relieve your company from having to comply with all applicable regulations.



State of Ohio Environmental Protection Agency

Northeast District Office

2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

October 26, 2004

RE: AMERICAN RECYCLING COMPANY  
3203 W. 71<sup>ST</sup> ST.  
OWNER NOV #2

CERTIFIED MAIL

Mr. Joe Cala, Owner  
Advance Handling  
3203 W. 71<sup>st</sup> St.  
Cleveland, OH 44102

Dear Mr. Cala:

Thank you for responding on October 6, 2004 to my letter dated August 30, 2004. Your letter is asking for disposal information for the various types of wastes that remain at your facility. You might recall that an abundance of waste disposal and management information was given to you and your attorney on April 15, 2004 during a meeting in our office. Regardless, you should find the enclosed information helpful.

Your first step to address the violations is to inventory the remaining wastes by types. Next you will determine which of these wastes are hazardous in accordance with Ohio Administrative Code (OAC) 3745-52-11. Any that are nonhazardous can be disposed of with the regular trash or sent to a recycler. Those that are hazardous, can be sent for recycling or disposed of as hazardous waste. So then the next step is to determine where you will send those wastes determined to be hazardous. The enclosed information should help you locate recyclers or treatment/disposal facilities for your various wastes and explore the costs of each.

As I indicated in my August 30, 2004 letter, our records indicate there are 56 drums of process wastes left at the facility. One of these is hazardous based on sample results, 23 are non-hazardous based on sample results, and 32 need to be evaluated. There are also 17 gaylords of glass, 7 gaylords of glass with metal, containers of spent lamps, computers and batteries that all need to be sent off-site for recycling or evaluated to determine if hazardous or not and then disposed or treated properly.

Once the wastes have been removed from the site, you will need to complete closure activities that meet the requirements of OAC 3745-66-11(A)&(B) and 3745-66-14 for all areas of the facility where hazardous wastes were stored and generated and for all equipment and structures contaminated with hazardous constituents. Prior to starting closure activities, you will need to submit to Ohio EPA for approval a closure plan that outlines and describes your planned closure activities.

You stated in your letter that you do not have the funds to dispose of the wastes properly. Once you have obtained cost estimates for the removal of the wastes, and you find you do not have the funds for disposal and cleanup, you must submit individual and business financial documentation to support your inability to pay claim. You will need to submit substantiating financial information to Jeanette Smith, in our Central Office for review by an Ohio EPA economist. The attached sheet provides you with a list of documents you will need to submit with your claim.

MR. JOE CALA/ADVANCE HANDLING  
OCTOBER 26, 2004  
PAGE 2.

Ohio EPA does not regulate PCB wastes. You should contact Kenneth Zolnierczyk with U. S. EPA at (312) 353-9687 with any questions related to management and disposal of PCB wastes.

Also you stated that some wastes have identifying company labels on them. Ohio EPA feels it is your responsibility at this point to discuss your situation with the generators and to make arrangements with them for the proper management and disposal of these wastes. Feel free to have the generators contact us with any questions that they might have about proper management of the wastes.

Within 20 days of the date of this letter, please provide us with a copy of your inventory of wastes, a copy of your determination of which of these wastes are hazardous, and a copy of your schedule for where and when you will send your hazardous waste for recycling, treatment, or disposal.

Should you have any questions related to this letter, you can contact me at (330) 963-1226.

Sincerely



Sheryl K. Slone, P.E.  
Environmental Engineer  
Division of Hazardous Waste

SKS:pb

Enclosures:

- Inability-to-Pay Document List
- Draft Hazardous Waste Evaluation Guidance
- Ohio Commercial Facilities Accepting Hazardous Waste
- Selecting a TSD
- Land Disposal Restrictions
- Universal Waste
- Management of Electronic Waste
- Battery Recyclers
- Computer, Fluorescent Lamp and Ballast Recyclers
- Mercury Recyclers

cc: Natalie Oryshkewych, Ohio EPA, DHWM, NEDO (w/o encl)  
ec: Jeanette Smith, Ohio EPA, DHWM, CO (w/o encl)  
Harry Sarvis, Ohio EPA, DHWM, CO (w/o encl)  
Bob Cheugh, AGO (w/o encl)

**NOTICE:**

Ohio EPA's failure to list specific deficiencies or violations in this letter does not relieve your company from having to comply with all applicable regulations.

Re: American Recycling Company

10/26/04 Phone call with Joe Cala 216-651-3737  
Jeanette Smith CO x 2973  
Sherry Stone NEDD x 226

Informed Mr. Cala that a letter in response to his letter would be coming. The letter gives him direction and information for getting rid of the remaining wastes.

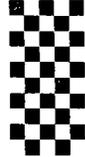
Mr. Cala is leaving for Europe for 3 weeks tomorrow.

He has applied for a low cost loan to help him dispose of the wastes. He has not been denied nor approved.

Jeanette explained that he needs to really start moving wastes off-site and giving us a plan. She discussed the enforcement options and suggested his best option was to make progress in addressing the issues quickly.

He agreed to contact the generators of the unprocessed lamps and ask them to take them back.

Jeanette mentioned the possibility of selling the processing equipment.



# ADVANCE HANDLING & STORAGE PRODUCTS

3203 W. 71 ST. • CLEVELAND, OHIO 44102 • (216) 651-4477 • FAX (216) 651-7559

MS SHERYL K. SLONE  
OHIO EPA  
2110 E. AURORA ROAD  
TWINSBURG, OH 44087

October 6, 2004

DEAR MS. SLOAN:

In answer to your letter of August 30<sup>th</sup>, I am trying to comply with your request. But I need your help. The environmental and hazardous materials field is totally alien to me. I don't know who is licensed to process these materials, I don't know at what cost, and at this time, I do not have the funds to dispose of them properly. I am trying to barrow money for proper disposal.

Please supply a list of companies that dispose of these drums of mercury powder and unprocessed bulbs. ARC was supposed to contact companies identified as owners of unprocessed bulbs to pick up their materials. Some did. Some did not. Either ARC did not identify all the companies or ARC's request was ignored. I found 8 or 10 skids of unprocessed bulbs with identifiable shipping labels. I also found one skid with three drums of powder with a shipping label from a chemical company.

If Advance Handling writes these companies to retrieve their material, they will ignore me. If the OEPA makes the request, they will respond. We will both benefit. We both want the warehouse cleared.

I contacted a trash company about the glass. They require something in writing to take the glass to a landfill. Regarding the drums of ballasts, how do you tell which has PCB? You said some were grandfathered, how do I identify them?

I don't know if this situation is strange to you or not but it is very peculiar to me. We both want a clean warehouse, let's work together. I need help and information. Maybe a meeting is in order? Call me if you agree.

Sincerely,



JOE CALA



State of Ohio Environmental Protection Agency

Northeast District Office

5-15  
U

2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

August 30, 2004

RE: AMERICAN RECYCLING COMPANY  
3203 W. 71<sup>ST</sup> ST.  
OWNER NOV #1

**CERTIFIED MAIL**

Mr. Joe Cala, Owner  
Advance Handling  
3203 W. 71<sup>st</sup> St.  
Cleveland, OH 44102

Dear Mr. Cala:

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AMERICAN RECYCLING COMPANY  
AUGUST 30, 2004  
PAGE 2

and 3745-66-14 for all areas of the facility where hazardous wastes were stored and generated and for all equipment and structures contaminated with hazardous constituents.

**Please submit the schedule and plans within 30 days of the date of this letter, to my attention at this office.** If you have any questions related to this letter feel free to call me at (330) 963-1226.

During our telephone conversation on August 13, 2004, you had asked about the availability of the hazardous waste clean-up fund (created under ORC 3734.28) for your efforts at this site. ORC 3734.20 through 3734.27 regulate how that money can be expended. In general, these funds are not available directly to a landowner. These funds would be available to Ohio EPA to abate conditions at a site which poses a threat to human health and the environment. After incurring these costs, Ohio EPA would seek reimbursement to the hazardous waste clean-up fund from the property owner and if not forthcoming would place a lien on the property.

Please note the above does not address any issues related to the over 300 drums of PCB and ballast wastes noted at the facility during our initial March 12, 2001 inspection. Authority for regulation of these wastes lies with the U. S. EPA who was informed of the situation on April 27, 2001.

Sincerely



Sheryl K. Slone, P.E.  
Environmental Engineer  
Division of Hazardous Waste Management

SKS:pb

cc: Natalie Oryshkewych, Ohio EPA, DHWM, NEDO

ec: Jeanette Smith  
Harry Sarvis, Ohio EPA, DHWM, CO  
Bob Cheugh, AGO

**NOTICE:**

Ohio EPA's failure to list specific deficiencies or violations in this letter does not relieve your company from having to comply with all applicable regulations.

NEDD

Meeting with Joe Cala Re: American Recycling

4/15/04

Name	Co.	Phone
Jeanette Smith	Ohio EPA	614.644.2973
Lori Massey	OAG	614.466.2766
JOE CALA	ADVANCE HDIS	216-657-4477
Robert Casarona	Roetzel & Address	216 615-4841
SHERRY SLOWE	OHIO EPA	330.963.1226

**Lori A. Massey**

---

**From:** Frank Maresh @ Water & Wastewater Equipment [Frank@wwe-co.com]  
**Sent:** Friday, January 30, 2004 3:43 PM  
**To:** lmassey@ag.state.oh.us  
**Subject:** Your letter of 1-21-04

Dear Ms. Massey:

As a follow up to your letter of 1-21-04, I apologize for not responding to your letter of 12-16-03 as I was not aware one was asked for. With regard to your current questions, I respond as follows:

1. I don't know. ( Koler?)
2. I don't know.
3. I don't know
4. I don't know
5. It is my understanding Mr. Koler closed the operation sometime in 2002.

Please understand that I invested a small amount of money in Mr. Koler's business a long time ago and had never worked in the business. I have no idea where he is or how to reach him. I am sorry for not being of much assistance .

Sincerely,  
Frank Maresh

2/2/2004

**GERALD E. FUERST**  
**CLERK OF COURTS**  
**COMMON PLEAS COURT**  
**CUYAHOGA COUNTY, OHIO**

**STATE OF OHIO**

**Case: JL04213597**

**vs**

**Filed: 01/26/2004**

**AMERICAN RECYCLING, LTD. ET AL**

**Certificate of Judgment**

**Revised Code Sec. 2329**

I, GERALD E. FUERST, Clerk of the Common Pleas Court of Cuyahoga County, Ohio, do hereby certify that on the 14th day of March 2003, a judgment was by said Court rendered in favor of STATE OF OHIO EX REL JIM PETRO ATTORNEY GENERAL OF OHIO and against AMERICAN RECYCLING COMPANY LTD for the sum of \$2,000.04 and interest at 10% from the 14th day of March, 2003, and \$0.00 costs of suit, in a certain action then pending in said Court, CV02483878 on the docket thereof, wherein STATE OF OHIO EX REL JIM PETRO ATTORNEY GENERAL OF OHIO plaintiff, and AMERICAN RECYCLING COMPANY LTD defendant, which said judgment appears more fully and at large in Book 2896 page 0575-0584, of said Court.

**FILED**

**January 26, 2004 9:10 AM**

**GERALD E. FUERST**  
**CLERK OF COURTS**  
**CUYAHOGA COUNTY**

**WITNESS my hand and seal of said Court this 26th day of January, 2004.**

Attorney: LORI A MASSEY



By Copy  
Deputy

*Julie M. Price*  
Writer's Direct Dial (216) 363-4689  
Writer's E-mail: [jprice@bfca.com](mailto:jprice@bfca.com)

January 26, 2004

**VIA FEDERAL EXPRESS**

Ms. Lori A. Massey  
Assistant Attorney General  
Environmental Enforcement  
30 E. Broad St.  
Columbus, OH 43215-3400

Re: American Recycling Company, Ltd.

Dear Ms. Massey:

I am in receipt of your letter dated January 21, 2004 requesting information regarding the status of American Recycling Company. My client, Tom Weber, has every intention of providing you with a response and cooperating with your office, however, he is on vacation until January 31, 2004 and therefore we plan to respond no later than February 20, 2004. Furthermore, as I previously have stated to you and certain other individuals at the Ohio EPA, including Sherry Sloan, Tom Weber is a member of American Recycling, not an officer or an employee and therefore has and never has had any authority to act on behalf of American Recycling.

We again plan to cooperate with you to the extent we can but Drew Koler is the best person to answer your questions as he was the sole operator and is the President of American Recycling and the only member who has ever acted on behalf of American Recycling, all other members were passive investors therein.

Sincerely,



Julie M. Price

RECEIVED  
2004 JAN 28 P 3:24  
ATTORNEY GENERAL OFFICE  
ENVIRONMENTAL ENFORCEMENT

**CLOSED**

**U.S. Bankruptcy Court  
Northern District of Ohio (Cleveland)  
Bankruptcy Petition #: 03-20960-pmc**

Assigned to: JUDGE PAT E MORGENSTERN-CLARREN  
Chapter 7  
Voluntary  
No asset

Date Filed: 08/18/2003  
Date Terminated: 03/23/2004  
Date Discharged: 11/24/2003

**Drew R. Koler**  
13932 Oak Brook Drive  
North Royalton, OH 44133  
SSN: xxx-xx-8315  
**Debtor**

represented by **Blake Owen Brewer**  
4807 Rockside Rd.  
#400  
Independence, OH 44131  
(216) 642-8234  
Fax : 216-642-8235  
Email: blakeb@erielink.com

**David O Simon**  
1370 Ontario St  
Standard Bldg  
#450  
Cleveland, OH 44113-1744  
(216) 621-6201  
**Trustee**

<b>Filing Date</b>	<b>Docket Text</b>
03/23/2004	<u>11</u> Final Decree Issued. Case Closed. (nmars, ) (Entered: 03/23/2004)
03/23/2004	Adversary Case 03-1468 Closed (nmars, ) (Entered: 03/23/2004)
01/22/2004	Hearing Held -- Motion to Withdraw as Attorney Filed by Debtor Drew R. Koler -- MOTION DENIED FOR LACK OF PROSECUTION. (nmars, ) (Entered: 01/22/2004)
12/27/2003	<u>10</u> Notice of Hearing on Motion for Attorney to Withdraw Filed by Debtor Drew R. Koler (RE: related document(s) <u>9</u> Motion to Withdraw as Attorney Filed by Debtor Drew R. Koler (Brewer, Blake aty)). Hearing scheduled for 1/22/2004 at 08:30 AM at Cleve Key Tower #3202. (Brewer, Blake aty) (Entered: 12/27/2003)
12/27/2003	<u>9</u> Motion to Withdraw as Attorney Filed by Debtor Drew R. Koler (Brewer, Blake aty) (Entered: 12/27/2003)
11/26/2003	<u>8</u> Notice of Discharge of Debtor w/ Certificate of Service Service Date 11/26/03. (Admin.) (Entered: 12/04/2003)
11/24/2003	Order of Discharge. (gnull, crt) (Entered: 11/24/2003)

Northern District Of Ohio  
United States Bankruptcy Court  
Suite 3001, Key Tower  
127 Public Square  
Cleveland, OH 44114  
Case No. 03-20960-pmc

**In re:**

Drew R. Koler  
13932 Oak Brook Drive  
North Royalton, OH 44133

**Social Security No.:**

xxx-xx-8315

**FINAL DECREE**

The Court, in reliance upon the certification of the United States Trustee, finds that the estate of the within debtor(s) has been:

Fully Administered                       Dismissed

The deposit required by the Plan has been distributed.

**It is therefore Ordered that:**

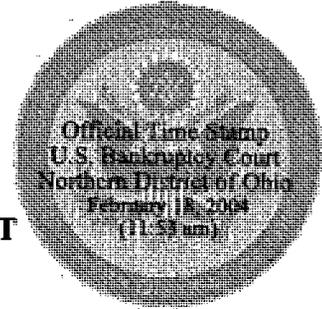
David O Simon is hereby discharged as Trustee of the estate of the above-named debtor and any bond required pursuant to 11 U.S.C. section 322 is cancelled.

The Chapter 7 case of the above-named debtor(s) is closed; and

Other provisions as needed.

**Dated:** March 23, 2004  
Form ohnb136

/s/ Pat E. Morgenstern-Clarren  
United States Bankruptcy Judge



**UNITED STATES BANKRUPTCY COURT  
NORTHERN DISTRICT OF OHIO  
EASTERN DIVISION**

**In re:** : **Case No.: 03-20960-PMC**  
:  
**KOLER, DREW R.** : **Chapter 7**  
:  
**Debtor.** : **Judge: Morgenstern-Clarren**  
:

**State of Ohio, Environmental** :  
**Protection Agency** :  
:  
**Plaintiff,** :  
:  
**vs.** : **Adversary Proceeding No.: 03-1468**  
:  
**Drew R. Koler** :  
:  
**Defendant.** :

**AGREED ENTRY RESOLVING  
PLAINTIFF'S ADVERSARY COMPLAINT**

This matter comes before the Court pursuant to Plaintiff's filing of an Adversary Complaint on November 14, 2003 under 11 U.S.C. § 523(a)(7). In the Adversary Complaint, Plaintiff alleged: (1) that it sued Defendant on October 10, 2002 in the Cuyahoga Court of Common Pleas pursuant to the strict liability provisions of Chapter 3734 of the Ohio Revised Code related to violations of Ohio hazardous waste law and the rules adopted thereunder; (2) that its Complaint was resolved on March 14, 2003 when the Common Pleas Court entered a Consent Order and Final Judgment Entry negotiated by the parties that required Defendant comply with

Ohio hazardous waste laws, remove and properly dispose of all hazardous materials at the facility, complete closure of contaminated areas of the facility and pay a civil penalty of \$2000.04; and (3) that Defendant failed to comply with the March 14, 2003 Order of the Cuyahoga County Common Pleas Court.

WHEREFORE the Parties hereby stipulate as follows:

1. On October 10, 2002 the Plaintiff sued Defendant in the Common Pleas Court of Cuyahoga County alleging violations of Ohio hazardous waste laws.

2. The parties negotiated, signed and submitted a Consent Order to the Common Pleas Court that resolved the allegations in Plaintiff's Complaint and imposed injunctive relief and civil penalty obligations upon Defendant.

3. On March 14, 2003, the Cuyahoga County Common Pleas Court entered a Consent Order that resolved all violations alleged in the Plaintiff's October 10, 2002 Complaint.

4. Under the terms of the March 14, 2003 Judgment Entry the Common Pleas Court ordered Defendant to comply with Ohio hazardous waste laws, to immediately remove materials/waste located at 3203 West 71<sup>st</sup> Street, Cleveland, Ohio, to remove and properly dispose of all hazardous materials at the facility, complete generator closure activities to remove contamination at the contaminated areas of the facility and pay a civil penalty of \$2000.04.

5. Defendant failed to comply with any of the obligations imposed by the Cuyahoga County Common Pleas Court in its March 14, 2003 Order and Final Judgment Entry.

6. On August 18, 2003, Defendant filed a voluntary petition for bankruptcy under Chapter 7 of the United States Bankruptcy Code. Defendant's petition was designated as Case No. 03-20960 and assigned to Judge Morgenstern-Clarren.

7. On November 14, 2003, Plaintiff filed an Adversary Complaint in Bankruptcy Case No. 03-20960 to pursue enforcement of the March 14, 2003 Judgment Entry.

8. This Court has jurisdiction of this proceeding pursuant to 28 U.S.C. §§ 157 and 1334. Venue of this proceeding is proper under 28 U.S.C. §§ 1408 and 1409. This is a core proceeding under 28 U.S.C. §§ 157(b)(1) and 157(b)(2)(I).

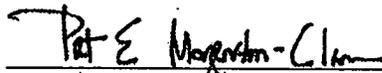
WHEREFORE, the Parties agree that:

1. All the obligations imposed upon Defendant as contained within the March 14, 2003 Consent Order Judgment, including the payment of a civil penalty, are not dischargeable pursuant to 11 U.S.C. § 523(a)(7).

2. Plaintiff is entitled to pursue enforcement of the March 14, 2003 Consent Order Judgment and other remedies available in the Common Pleas Court.

ORDERED:

Date: 2/18/04

  
\_\_\_\_\_  
Pat E. Morgenstern-Clarren  
United States Bankruptcy Judge

APPROVED:

JIM PETRO  
Attorney General of Ohio

/s/John K. McManus  
Lori A. Massey (Ohio 0047226)  
John K. McManus (Ohio 0037140)  
Assistant Attorneys General  
Environmental Enforcement Section  
30 East Broad Street, 25<sup>th</sup> Floor

/s/Blake Owen Brewer  
Blake Owen Brewer (0010639)  
Attorney at Law  
4807 Rockside Road, Suite 400  
Independence, Ohio 44161  
Telephone: (216) 642-8234

Columbus, Ohio 43215-3400  
Telephone: (614) 466-2766  
Facsimile: (614) 644-1926/752-2441  
Email: [lmasey@ag.state.oh.us](mailto:lmasey@ag.state.oh.us)

Attorneys for Plaintiff

Facsimile: (216) 642-8235  
Email: [blakeb@erielink.com](mailto:blakeb@erielink.com)

Attorney for Defendant

**GERALD E. FUERST  
CLERK OF COURTS  
COMMON PLEAS COURT  
CUYAHOGA COUNTY, OHIO**

STATE OF OHIO

Case: JL04215738

vs

Filed: 03/09/2004

DREW R. KOLER ET AL

Certificate of Judgment

Revised Code Sec. 2329

I, GERALD E. FUERST, Clerk of the Common Pleas Court of Cuyahoga County, Ohio, do hereby certify that on the 14th day of March 2003, a judgment was by said Court rendered in favor of STATE OF OHIO EX REL BETTY D.

MONTGOMERY

ATTORNEY GENERAL OF OHIO and against DREW R. KOLER for the sum of \$2,000.00 and interest at 10% from the 14th day of March, 2003, and \$0.00 costs of suit, in a certain action then pending in said Court, CV02483878 on the docket thereof, wherein STATE OF OHIO EX REL BETTY D.

MONTGOMERY

ATTORNEY GENERAL OF OHIO plaintiff, and DREW R. KOLER defendant, which said judgment appears more fully and at large in Book 2896 page 575-584, of said Court.

FILED

March 9, 2004 11:11 AM

GERALD E. FUERST

CLERK OF COURTS

CUYAHOGA COUNTY

WITNESS my hand and seal of said Court this 9th day of March, 2004.

Attorney: LORI A MASSEY



By \_\_\_\_\_  
Deputy



STATE OF OHIO  
OFFICE OF THE ATTORNEY GENERAL  
JIM PETRO, ATTORNEY GENERAL

File: ARC

Environmental Enforcement  
30 E. Broad St.  
Columbus, OH 43215-3400  
Telephone: (614) 466-2766  
Facsimile: (614) 644-1926  
www.ag.state.oh.us

January 21, 2004

Julie Price  
Benesch, Friedlander, Copland, Aronoff LLP  
2300 BP Tower  
200 Public Square  
Cleveland, Ohio 44114-2378

RECEIVED  
JAN 23 2004  
OHIO EPA NEDO

Re: State of Ohio v. American Recycling Company LTD. et al. Case No. 02-CV-483878

Dear Ms. Price:

On December 16, 2003, I sent a letter to you informing you that American Recycling Company, Ltd. was in contempt of the Cuyahoga County Common Pleas Court's March 14, 2003 Consent Order and Final Judgment Entry. My letter requested that your client, Thomas Weber, inform the State by December 31, 2003 if he wished to attain compliance with the Court's Order prior to initiation of contempt proceedings.

To date, I have received no response from you or your client. Therefore, I am requesting the following information concerning American Recycling Company, Ltd.

1. The name, address and telephone number of the company's current representative (legal or otherwise).
2. Whether the company is currently operating as a legal entity and where.
3. The current location, ownership and/or control of the company assets.
4. The current corporate status of the company (i.e., in good or bad standing).
5. Whether the company is winding down.

Please provide the above requested information on or before January 30, 2004.

Sincerely,

Lori A. Massey  
Assistant Attorney General  
Environmental Enforcement  
Email: [lmasse@ag.state.oh.us](mailto:lmasse@ag.state.oh.us)

cc: Isaac Wilder, Ohio EPA/DHWM/CO  
~~Sherry Sloan~~, Ohio EPA/DHWM/NEDO



STATE OF OHIO  
OFFICE OF THE ATTORNEY GENERAL  
JIM PETRO, ATTORNEY GENERAL

Environmental Enforcement  
30 E. Broad St.  
Columbus, OH 43215-3400  
Telephone: (614) 466-2766  
Facsimile: (614) 644-1926  
www.ag.state.oh.us

January 21, 2004

Julie Price  
Benesch, Friedlander, Copland, Aronoff LLP  
2300 BP Tower  
200 Public Square  
Cleveland, Ohio 44114-2378

Re: State of Ohio v. American Recycling Company LTD. et al. Case No. 02-CV-483878

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Please provide the above requested information on or before January 30, 2004.

Sincerely,

A handwritten signature in cursive script that reads "Lori A. Massey".

Lori A. Massey  
Assistant Attorney General  
Environmental Enforcement  
Email: [lmasssey@ag.state.oh.us](mailto:lmasssey@ag.state.oh.us)

**Lori A. Massey**

---

**From:** Daryl Marttala - Water & Wastewater Equipment Co. [daryl@wwe-co.com]  
**Sent:** Thursday, January 29, 2004 2:24 PM  
**To:** lmassey@ag.state.oh.us  
**Subject:** Fw: your letter of 1/21/04

Correction: he shut down in fall of 2002 not 2003

----- Original Message -----

**From:** Daryl Marttala - Water & Wastewater Equipment Co.  
**To:** lmassey@ag.state.oh.us  
**Sent:** Thursday, January 29, 2004 1:22 PM  
**Subject:** your letter of 1/21/04

Re: American Recycling, Case 02-cv-483878

Ms. Massey,

I am sorry for not responding to your letter of 12/16/03. I did not think a response was asked for. In answer to your questions in your letter of 1/21/04 I respond as follows:

- 1) I don't know.....Drew Koler?
- 2) Not to my knowledge
- 3) I don't know.... Mr. Koler?
- 4) I don't know
- 5) I understand that Mr. Koler shut down the operations and walked out in the fall of 2003.

I am sorry for my lack of knowledge however I hope you realize that I invested money in Mr. Koler's business a number of year ago, never worked in the business and have no idea how to reach Mr. Koler.

I am sorry I cannot be of much help.

Sincerely,  
Daryl Marttala

1/29/2004



STATE OF OHIO  
OFFICE OF THE ATTORNEY GENERAL  
JIM PETRO, ATTORNEY GENERAL

Environmental Enforcement  
30 E. Broad St.  
Columbus, OH 43215-3400  
Telephone: (614) 466-2766  
Facsimile: (614) 644-1926  
www.ag.state.oh.us

January 21, 2004

Daryl Marttala  
American Recycling Company, Ltd.  
9160 Auburn Road  
Chardon, Ohio 44024-8639

Frank Maresh  
American Recycling Company, Ltd.  
8291 Harbor Drive  
Mentor, Ohio 44060

Re: State of Ohio v. American Recycling Company LTD. et al. Case No. 02-CV-483878

Dear Mr. Marttala and Mr. Maresh:

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4. The current corporate status of the company (i.e., in good or bad standing).
5. Whether the company is winding down.

Please provide the above requested information on or before January 30, 2004.

File: ARC



STATE OF OHIO  
OFFICE OF THE ATTORNEY GENERAL  
JIM PETRO, ATTORNEY GENERAL

Environmental Enforcement  
30 E. Broad St.  
Columbus, OH 43215-3400  
Telephone: (614) 466-2766  
Facsimile: (614) 644-1926  
www.ag.state.oh.us

RECEIVED

JAN 23 2004

OHIO EPA NEDO

January 21, 2004

Daryl Marttala  
American Recycling Company, Ltd.  
9160 Auburn Road  
Chardon, Ohio 44024-8639

Frank Maresh  
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Please provide the above requested information on or before January 30, 2004.

Sincerely,

*Lori A. Massey*

Lori A. Massey

Assistant Attorney General

Environmental Enforcement

Email: [lmasssey@ag.state.oh.us](mailto:lmasssey@ag.state.oh.us)

cc: Isaac Wilder, Ohio EPA/DHWM/CO  
Sherry Sloan, Ohio EPA/DHWM/NEDO



STATE OF OHIO  
**OFFICE OF THE ATTORNEY GENERAL**  
JIM PETRO, ATTORNEY GENERAL

FILE: ARC

Environmental Enforcement  
30 E. Broad St.  
Columbus, OH 43215-3400  
Telephone: (614) 466-2766  
Facsimile: (614) 644-1926  
[www.ag.state.oh.us](http://www.ag.state.oh.us)

December 22, 2003

Drew R. Koler  
13932 Oak Brook Drive  
North Royalton, OH 44133

Re: State of Ohio v. American Recycling Company LTD. et al. Case No. 02-CV-483878

Dear Mr. Koler:

On March 14, 2003, the Cuyahoga County Common Pleas Court entered a Consent Order and Final Judgment Entry negotiated between the State of Ohio, American Recycling Company LTD. and you as its president. To date, both American Recycling Company, Ltd. and you have failed to comply with the terms of the March 14, 2003 Court Order. As a result of this combined failure to comply, Ohio EPA has requested that the Attorney General's Office initiate contempt proceedings.

Before Charges in Contempt are filed, the State is willing to allow American Recycling Company Ltd. and you the opportunity to attain compliance with the Court's March 14, 2003 Order and Final Judgment Entry. Please contact me, or have your Attorney contact me, on or before December 31, 2003 if you wish to attain compliance before the contempt charges are filed.

Sincerely,

Lori A. Massey  
Assistant Attorney General  
Environmental Enforcement  
Email: [lmasse@ag.state.oh.us](mailto:lmasse@ag.state.oh.us)

cc: Isaac Wilder, Ohio EPA/DHWM/CO  
Sherry Sloan, Ohio EPA/DHWM/NEDO

RECEIVED

DEC 24 2003

OHIO EPA NEDO



STATE OF OHIO  
OFFICE OF THE ATTORNEY GENERAL  
JIM PETRO, ATTORNEY GENERAL

Environmental Enforcement  
30 E. Broad St.  
Columbus, OH 43215-3400  
Telephone: (614) 466-2766  
Facsimile: (614) 644-1926  
www.ag.state.oh.us

FILE: ARC

December 16, 2003

RECEIVED  
DEC 18 2003  
OHIO EPA NEDO

Daryl Marttala  
American Recycling Company, Ltd.  
9160 Auburn Road  
Chardon, Ohio 44024-8639

Frank Maresh  
American Recycling Company, Ltd.  
8291 Harbor Drive  
Mentor, Ohio 44060

Re: State of Ohio v. American Recycling Company LTD. et al. Case No. 02-CV-483878

Dear Mr. Marttala and Mr. Maresh:

On March 14, 2003, the Cuyahoga County Common Pleas Court entered a Consent Order and Final Judgment Entry negotiated between the State of Ohio, American Recycling Company LTD. and its president Drew R. Koler. To date, both American Recycling Company, Ltd. and Mr. Koler have failed to comply with the terms of the March 14, 2003 Court Order. As a result of their combined failure to comply, Ohio EPA has requested that the Attorney General's Office initiate contempt proceedings.

Before Charges in Contempt are filed, the State is willing to allow American Recycling Company Ltd. and Mr. Koler the opportunity to attain compliance with the Court's March 14, 2003 Order and Final Judgment Entry. Please contact me, or have your Attorney contact me, on or before December 31, 2003 if American Recycling Company, Ltd. wishes to attain compliance before the contempt charges are filed.

Sincerely,

A handwritten signature in cursive script that reads "Lori A. Massey".

Lori A. Massey  
Assistant Attorney General  
Environmental Enforcement  
Email: [lmasey@ag.state.oh.us](mailto:lmasey@ag.state.oh.us)

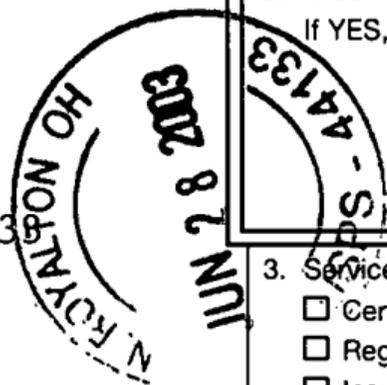
cc: Isaac Wilder, Ohio EPA/DHWM/CO  
Sherry Sloan, Ohio EPA/DHWM/NEDO

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Drew Koler  
 13932 Oak Brook Dr.  
 N. Royalton, OH 44133

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

 Agent Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  YesIf YES, enter delivery address below:  NoRECEIVED  
JUN 30 2003

OHIO EPA NEDO

3. Service Type

 Certified Mail Express Mail Registered Return Receipt for Merchandise Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee)

 Yes

2. Article Number

7002 2410 0001 9766 8780 Slone 6-19-03

(Transfer from service label)

UNITED STATES POSTAL SERVICE



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box.

# Ohio EPA

Northeast District Office  
2110 E. Aurora Rd.  
Twinsburg, OH 44087-1969

44087+1969





State of Ohio Environmental Protection Agency  
Northeast District Office

2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

June 19, 2003

RE: AMERICAN RECYCLING CO., LTD.  
OHD000720110  
CUYAHOGA COUNTY  
UNFULFILLED OBLIGATIONS

Mr. Drew Koler  
13932 Oak Brook Dr  
N Royalton, OH 44133-4614325

CERTIFIED MAIL and 1<sup>st</sup> Class

Dear Mr. Koler:

On May 7, 2003, the Ohio EPA Northeast District Office received your response to our April 21, 2003 letter. In it you indicate that you have resigned from American Recycling Company (ARC) and that we should contact Ms Julie Price, counsel for the remaining ARC members, concerning compliance with the orders. Further you indicate that you cannot afford to pay the civil penalty.

On March 12, 2003, you signed a consent order and final judgment entry (order) both on behalf of ARC and individually. Therefore you are personally liable and responsible for complying with the terms of the order. Among other things, the order required you to immediately remove and properly dispose of all hazardous waste from the facility located at 3203 W. 71st St., Cleveland, Ohio. Within 14 days of this removal you agreed to submit a detailed report of the hazardous waste removal. Also you agreed to immediately request that all original suppliers of unprocessed spent lamps at your facility properly recycle or dispose of their lamps at another facility and within 14 days of their removal submit a detailed report of the removal.

Concerning the civil penalty, you agreed to submit a monthly statement to Harry Sarvis, Manager of the Compliance Assurance Section of the Division of Hazardous Waste Management of Ohio EPA on or before the 14th of each month detailing your current employment status. If you failed to submit this statement, you were required to pay the entire civil penalty immediately.

None of the injunctive relief detailed in the order has been satisfied and no monthly statements of employment status have been submitted to Mr. Sarvis. Your failure to comply with the clear terms of the consent order may result in Ohio EPA requesting that the Ohio Attorney General's office pursue all available remedies to achieve compliance with the order.

Should you have questions concerning this matter, you can contact me at (330) 963-1226.

Sincerely,

Sheryl K. Slone, P.E.  
Environmental Engineer  
Division of Hazardous Waste Management

SKS:ddw

cc: Joe Cala, Advance Handling  
Julie Price, ARC counsel

ec: Ike Wilder/Jeanette Smith, DHWM, CO  
Harry Sarvis, DHWM, CO  
Marcus Glasgow, AGO  
Greg Poulos, AGO  
Natalie Oryshkewych



State of Ohio Environmental Protection Agency  
Northeast District Office

2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

# FAX Transmittal Sheet

To:

JEANETTE SMITH

Fax Number:

Subject:

ARC

From:

SHERRY SLONS

Date:

7/16/03

Pages to Follow:

4

(Include Cover Sheet)

If you have any questions, call (330) 963-1200, ask for sender

Return Fax number (330)487-0769

UNITED STATES POSTAL SERVICE



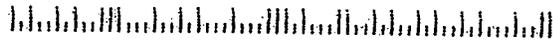
First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box.

# Ohio EPA

Northeast District Office  
2110 E. Aurora Rd.  
Twinsburg, OH 44087-1969

44087+1969

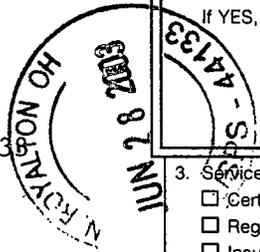


**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Drew Koler  
13932 Oak Brook Dr.  
N. Royalton, OH 44133



**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  
*[Signature]*  Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from that on label?  Yes  
If YES, enter delivery address below:  No

**RECEIVED**  
JUN 30 2003

**OHIO EPA NEDO**

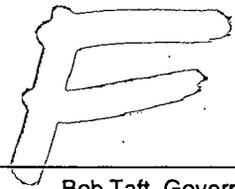
3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

2. Article Number (Transfer from service label) 7002 2410 0001 9766 8780 Slone 6-19-03



State of Ohio Environmental Protection Agency  
Northeast District Office



Bob Taft, Governor  
Christopher Jones, Director

2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

April 21, 2003

RE: AMERICAN RECYCLING CO., LTD.  
OHD000720110  
CUYAHOGA COUNTY  
UNFULFILLED OBLIGATIONS

Mr. Drew Koler  
American Recycling Co., LTD.  
P.O. Box #27486  
Cleveland, OH 44127-0486

CERTIFIED MAIL

Dear Mr. Koler:

On March 12, 2003, you signed a consent order and final judgement entry in which you agreed, among other things, to **immediately** remove and properly dispose of all hazardous waste from the American Recycling (ARC) facility located at 3203 W. 71<sup>st</sup> St., Cleveland, Ohio. Within 14 days of this removal you agreed to submit a detailed report of the hazardous waste removal. Also you agreed to **immediately** request that all original suppliers of unprocessed spent lamps at your facility properly recycle or dispose of their lamps at another facility and within 14 days of their removal submit a detailed report of the removal. You further agreed to submit a detailed employment status report by the 14<sup>th</sup> of each month.

**None of the injunctive relief detailed in the consent order has been satisfied.** If compliance is not accomplished immediately, we may request that the Ohio Attorney General's office pursue all available remedies to achieve compliance with the consent order.

Should you have questions concerning this matter, you can contact me at (330) 963-1226.

Sincerely,

Sheryl K. Slone, P.E.  
Environmental Engineer  
Division of Hazardous Waste Management

SKS:ddw

ec: Ike Wilder/Jeanette Smith, DHWM, CO  
Harry Sarvis, DHWM, CO  
Marcus Glasgow, AGO  
Greg Poulos, AGO  
Natalie Oryshkewych, DHWM, NEDO  
Joe Cala, Advance Handling



State of Ohio Environmental Protection Agency

RECEIVED  
MAR 13 2003

STREET ADDRESS:

Lazarus Government Center  
122 S. Front Street  
Columbus, OH 43215-1099

TELE: (614) 644-3020 FAX: (614) 644-2329

MAILING ADDRESS:

OHIO EPA  
P.O. Box 1049  
Columbus, OH 43216-1049

February 7, 2003

Jeffrey W. Ruple  
Buckley King  
1400 Bank One Center  
Cleveland, Ohio 44114-2652

ENTERED DIRECTOR'S JOURNAL

FEB - 7 2003

OHIO E.P.A.

Re: American Recycling Company, Ltd.

Dear Mr. Ruple:

Your client, American Recycling Company, Ltd. (ARC), has submitted to the Ohio Environmental Protection Agency's Northeast District Office certain documents claimed to be confidential pursuant to Ohio Administrative Code Rule 3745-50-30. Specifically, the documents involved are two estimated inventories of materials at ARC, one current as of September 9, 2002 and one current as of October 30, 2002. Each document contains three columns identifying 1) the ARC customer, 2) the date the material was invoiced or received, and 3) the quantity and description of the material. It is my understanding that the lists of ARC customers, and only such customer lists, are claimed to be confidential as a trade secret of ARC.

Pursuant to section 149.43 of the Ohio Revised Code, records maintained by public offices such as the Ohio EPA generally are public records. However, records whose release is prohibited by state or federal law may not be made available for public inspection. Trade secrets are an example of records whose release is prohibited by state or federal law. The applicable definition of "trade secrets" here is set out in Rule 3745-50-30 as:

any formula, plan, pattern, process, tool, mechanism, compound, procedure, production date, or compilation of information which is known only to certain individuals within a commercial concern who are using it to fabricate, produce, or compound an article, trade or service having commercial value, and which gives its user an opportunity to obtain a business advantage over competitors who do not know or use it.

Bob Taft, Governor  
Maureen O'Connor, Lieutenant Governor  
Christopher Jones, Director

This Agency has previously determined that customer lists appropriately may be considered to be trade secrets, and that determination has been upheld by the Supreme Court of Ohio. See *State ex rel. Lucas Cty. Bd. of Commrs v. Ohio Environmental Protection Agency*, (2000) 88 Ohio St.3d 166. The instant situation is somewhat unusual in that ARC has ceased operating, a circumstance that, at first glance, would seem to moot a trade secret claim.

However, in a January 23, 2003 letter to Alan Lapp of the Agency's Legal Office you have stated that ARC is currently attempting to locate a buyer for the company and/or its assets; that the customer base developed by ARC at considerable time and expense is a valuable asset of ARC; that ARC has been offered a significant sum of money for its customer list, and that there are on-going negotiations regarding the possible sale of ARC and/or its assets to a particular entity. You have also described measures taken by ARC to protect the confidentiality of its customer list.

I am satisfied that ARC's customer list constitutes a trade secret as defined by Rule 3745-50-30. Accordingly, the listing of ARC customers, and only the listing of customers, set out in the above-referenced documents submitted to the Ohio EPA's Northeast District Office will be kept confidential by the Ohio EPA.

You are hereby notified that this is a final action of the Director, and may be appealed to the Environmental Review Appeals Commission in accordance with section 3745.04 of the Ohio Revised Code. The appeal must be in writing and must set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty days after notice of this action. A copy of the notice of appeal must be served upon the Director of Environmental Protection within three days of filing with the Commission. An appeal may be filed with the Commission at the following address: Environmental Review Appeals Commission, 236 East Town Street, Room 300, Columbus, Ohio 43215.

Sincerely,



Christopher Jones  
Director

c: Richard M. Timm, Jr.  
Alan Lapp



- A. **“Approved Closure Plan”** means a closure plan that has been approved by the Director. The approved closure plan may be a closure plan approved by the Director as submitted by Defendants, or a closure plan approved by the Director after being submitted by Defendants and modified by the Director.
- B. **“Generator Closure Plan”** means a plan that meets the requirements of Ohio Adm. Code 3745-66-11(A) and (B) and 3745-66-14.
- C. **“Consent Order”** means this Consent Order and Final Judgment Entry and all appendices hereto.
- D. **“Defendants”** means American Recycling, Ltd, 3203 W. 71<sup>st</sup> , Cleveland, Ohio 44127-0486 and Drew Kohler, president of American Recycling, Ltd.
- E. **“Director”** means Ohio's Director of Environmental Protection.
- F. **“Effective Date”** means the date the Cuyahoga County Court of Common Pleas enters this Consent Order.
- G. **“Facility”** refers to the location where the alleged treatment, storage, disposal, or other placement of hazardous waste was conducted by Defendants or any one of them, which facility is located at 3203 W. 71<sup>st</sup>, Cleveland, Ohio 44127-0486, Cuyahoga County, Ohio.
- H. **“Ohio EPA”** means the Ohio Environmental Protection Agency.
- I. **“Plaintiff”** means the State of Ohio by and through the Attorney General of Ohio.

## **II. JURISDICTION AND VENUE**

This Court has jurisdiction over the subject matter of this action, pursuant to R.C. Chapter 3734 and the rules adopted thereunder. This Court has jurisdiction over the parties. Venue is proper in this Court. The Complaint states a claim upon which relief can be granted.

## **III. PERSONS BOUND**

The provisions of this Consent Order shall apply to and be binding upon Plaintiff and Defendants, their agents, officers, employees, assigns, successors in interest and any person acting in concert or participation with them who receives actual notice of this Consent Order whether by personal service or otherwise. Defendants are ordered and enjoined to provide a copy of this Consent Order to each contractor they employ to perform work itemized herein.

## **IV. SATISFACTION OF LAWSUIT AND RESERVATION OF RIGHTS**

1. Except as otherwise provided in this Consent Order, compliance with the terms of this Consent Order shall constitute full satisfaction of any civil liability of Defendants to Plaintiff for all claims alleged in the Complaint.

2. Nothing in this Consent Order, including the imposition of stipulated civil penalties, shall limit the authority of the State of Ohio to:

- A. Seek relief for claims or conditions not alleged in the Complaint;
- B. Seek relief for claims or conditions alleged in the  
Complaint that occur after the entry of this Consent Order;

- C. Enforce this Consent Order through a contempt action or otherwise for violations of this Consent Order;
- D. Bring any action against Defendants or against any other person, under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), as amended, 42 U.S.C. §9601, et seq. and/or R.C. 3734.20 through 3734.27 to: (1) recover natural resource damages, and/or (2) order the performance of, and/or recover costs for any removal, remedial or corrective activities not conducted pursuant to the terms of this Consent Order.
- E. Take any action authorized by law against any person, including Defendants, to eliminate or mitigate conditions at the Facility that may present an imminent threat to the public health or welfare, or the environment.

#### **V. INJUNCTIVE RELIEF**

1. Defendants are ordered and enjoined to comply with all applicable provisions of the Ohio hazardous waste laws and rules as set forth in R.C. Chapter 3734 and Ohio Adm. Code Chapters 3745-50 through 3745-69 and Ohio Adm. Code Chapters 3745-270 through 3745-279.

### **Material/Waste Removal**

2. Immediately after the effective date of this Consent Order, Defendants are ordered and enjoined to contact the original generators/suppliers of the spent unprocessed lamps stored at the Facility, located at 3203 W. 71<sup>st</sup>, Cleveland, Ohio 44127-0486, Cuyahoga County, Ohio, to the extent that such generators can be identified, and inform them that Defendants will not be processing the lamps as agreed & request that the original generators recycle or properly dispose of the lamps at another facility.

3. Fourteen (14) days after proper removal of the unprocessed lamps by original generators, Defendants will submit to Ohio EPA a lamp removal report that details the date/quantity, name of original generators and procedures associated with the lamp waste removal at the ARC facility and associated documentation.

### **Generator Closure**

4. Immediately after the effective date of this Consent Order, Defendants are ordered and enjoined to remove and properly dispose of ~~all hazardous waste~~ from the ARC facility located at 3203 W. 71<sup>st</sup>, Cleveland, Ohio 44127-0486, Cuyahoga County, Ohio.

5. Upon proper demonstration to Ohio EPA that all hazardous waste has been properly removed and disposed of from the ARC facility, Defendants shall remove and properly dispose of all remaining wastes. Defendants shall submit a report to Ohio EPA that details the quantity and type of waste removed and the disposal facility that Defendants used.

6. Fourteen (14) days after proper removal and disposal of the hazardous waste, Defendants will submit to Ohio EPA a waste removal report that details the quantity, quality, and procedures associated with the hazardous waste removal at the ARC facility.

7. Upon removal of the hazardous waste by Defendants from the ARC facility, Ohio EPA may require Defendants to submit and implement a hazardous waste generator closure plan for the ARC facility.

8. Within thirty (30) days of notice from Ohio EPA requiring Defendants to perform generator closure at the ARC facility, Defendants will submit a plan in accordance with Ohio Adm. Code 3745-66-11(A) and (B) and 3745-66-14 for the Facility.

9. The closure plan shall, at a minimum, address all areas of the Facility where hazardous wastes were stored, treated or disposed of.

10. Following review of the Closure Plan, if Ohio EPA determines that the closure plan is deficient and provides Defendants written notice of the deficiencies in the closure plan, Defendants are ordered and enjoined to submit to Ohio EPA a revised closure plan within thirty (30) days of receipt of the notice of deficiencies.

11. Following review of the revised closure plan, if Ohio EPA determines that the revised closure plan is deficient, Ohio EPA may modify the plan and approve the revised plan as modified by Ohio EPA.

12. Immediately upon receipt of notice of approval by Ohio EPA of Defendants' closure plan, either as originally submitted, as revised, or as revised and modified, Defendants are ordered and enjoined to implement the approved closure plan in the manner and pursuant to time frames set forth in the approved generator closure plan and Ohio Adm. Code 3745-66-13.

13. Within sixty (60) days after completion of closure, Defendants are ordered and enjoined to submit to Ohio EPA for review and/or approval a report detailing the activities carried out under the approved generator closure plan.

14. Defendants shall amend the generator closure plan whenever: (a) changes in operating plans or facility design affect the generator closure plan; or (b) there is a change in the expected year of closure, if applicable; or (c) in conducting partial or final closure activities, unexpected events require a modification of the approved generator closure plan.

## VI. CIVIL PENALTY

1. Upon a showing of gainful employment by Defendant Drew Kohler, Defendants are ordered and enjoined to pay to the State of Ohio a civil penalty in the amount of two thousand dollars and four cents (\$ 2,000.04). This amount shall be paid by delivering to Plaintiff, c/o Jena Suhadolnik, or her successor at the Office of the Attorney General of Ohio, Environmental Enforcement Section, 30 East Broad Street, 25th Floor, Columbus, Ohio 43215-3428, a cashier's or certified check in that amount, payable to the order of "Treasurer, State of Ohio". This civil penalty shall be deposited into the hazardous waste clean-up fund created by R.C. 3734.28.

2. Defendants shall pay the civil penalty described above in twelve (12) monthly installments of one hundred and sixty-six dollars and sixty-seven cents (\$166.67) per month. Defendants shall pay each monthly installment by the 14<sup>th</sup> of every month.

3. Defendant Drew Kohler shall submit a monthly statement to Ohio EPA that details his current employment status. The statement shall be submitted to Harry Sarvis,

Manager of the Compliance Assurance Section of the Division of Hazardous Waste Management of Ohio EPA on or before the 14<sup>th</sup> of every month. Upon achieving gainful employment, Defendant Drew Kohler shall begin making monthly payments as detailed in paragraph 2 section VI of this Order until the civil penalty described in paragraph 1 section VI of this Order has been satisfied. If Defendant Drew Kohler fails to submit a monthly employment statement Defendants shall immediately pay the entire civil penalty.

#### **VII. COMPLIANCE WITH APPLICABLE LAWS, PERMITS AND APPROVALS**

All activities undertaken by Defendants pursuant to this Consent Order shall be undertaken in accordance with the requirements of all applicable federal, state and local laws, rules, regulations and permits or other. Defendants shall submit timely applications and requests for any such permits and approvals. Where such laws appear to conflict with the other requirements of this Consent Order, Defendants are ordered and enjoined to immediately notify Ohio EPA of the potential conflict. Defendants are ordered and enjoined to include in all contracts or subcontracts entered into for work required under this Consent Order, provisions stating that such contractors or subcontractors, including their agents and employees, shall perform all activities required by such contracts or subcontracts in compliance with all applicable laws and rules. This Consent Order is not a permit issued pursuant to any federal, state or local law or rule.

#### **VIII. RETENTION OF JURISDICTION**

This Court shall retain jurisdiction of this action for the purpose of enforcing this Consent Order.

## **IX. COSTS**

Defendants shall pay the court costs of this action.

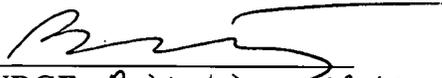
## **X. ENTRY OF CONSENT ORDER AND JUDGMENT BY CLERK**

Upon signing of this Consent Order by the Court, the clerk is directed to enter it upon the journal. Within three (3) days of entering the judgment upon the journal, the clerk is directed to serve upon all parties notice of the judgment and its date of entry upon the journal in the manner prescribed by Rule 5(B) of the Ohio Rules of Civil Procedure and note the service in the appearance docket.

## **XI. AUTHORITY TO ENTER INTO THE CONSENT ORDER**

Each signatory for a corporation represents and warrants that he/she has been duly authorized to sign this document and so bind the corporation to all terms and conditions thereof, and that he/she submits with this Consent Order an authenticated and certified resolution from the corporation establishing that he/she is so empowered.

**IT IS SO ORDERED:**

  
**JUDGE Bridget M. McCafferty**

**CUYAHOGA COUNTY  
COURT OF COMMON PLEAS**

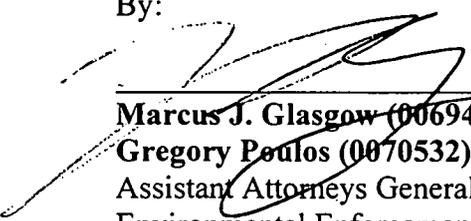
Respectfully submitted,

Betty D. Montgomery  
Attorney General

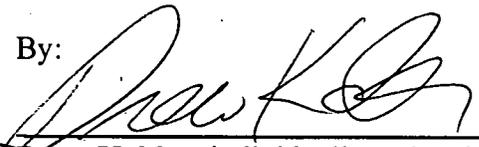
Defendants

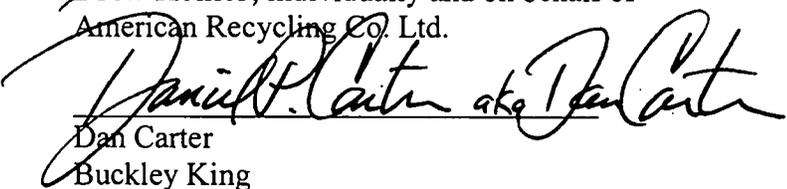
By:

By:

  
**Marcus J. Glasgow (0069454)**  
**Gregory Poulos (0070532)**  
Assistant Attorneys General  
Environmental Enforcement Section  
30 East Broad Street, 25th Floor

Attorneys for Plaintiff  
State of Ohio

  
**Drew Kohler**, individually and on behalf of  
American Recycling Co. Ltd.

  
**Dan Carter aka Dan Carter**  
Dan Carter  
Buckley King  
Cleveland, Ohio 44114-1304  
Telephone: (216) 363-1400  
Facsimile: (216) 579-1020

Attorney for Defendant

**IT IS SO ORDERED.**

---

**JUDGE BRIDGET M. McCAFFERTY**

**CUYAHOGA COUNTY  
COURT OF COMMON PLEAS**

Respectfully submitted,

Betty D. Montgomery  
Attorney General

By:

Defendants

By:

---

**Marcus J. Glasgow (0069454)**  
**Gregory Poulos (0080532)**  
Assistant Attorneys General  
Environmental Enforcement Section  
30 East Broad Street, 25<sup>th</sup> Floor  
Attorneys for Plaintiff  
State of Ohio

---

**Drew Kohler, individually and on behalf of**  
American Recycling Co., Ltd.



*Innovative Solutions for Industry  
and the Environment*  
**Chemical Solvents, Inc.**

Ohio EPA  
Northeast District Office  
Attn: Mr. Nyal McKenna  
2110 East Aurora Road  
Twinsburg, Ohio 44087

RECEIVED  
DEC 23 2002  
OHIO EPA NEDO

December 19, 2002

Dear Mr. McKenna:

Enclosed please find a copy of the manifest indicating the rejection of three boxes of HID light bulbs from ARC (American Recycling Company, LTD.). CSI picked up this material December 17, 2002.

This was the last manifest of material that we shipped to ARC.

Please call if you have any question.

Sincerely,

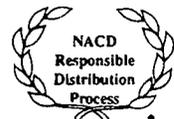
*Cynthia M. Lee*

Cynthia M. Lee, JD  
Environment, Health & Safety

cc: Sherry Slone  
Dave Weber

**QUALITY  
FIRST**

CHEMICAL SALES • SOLVENT RECLAIMING  
SPECIALITY BLENDING • PARTS WASHER SERVICES



Quality • Responsibility • Stewardship

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. OH 09 00 09 76 50 07260	Manifest Document No. 07260	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address CHEMICAL SOLVENTS, INC. 1010 DENISON AVENUE CLEVELAND, OH 44109 (216) 741-9310		4. Generator's Phone		A. State Manifest Document Number	
5. Transporter 1 Company Name CHEMICAL SOLVENTS, INC.		6. US EPA ID Number OH 00 52 93 78 85		C. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 216 741-9310	
9. Designated Facility Name and Site Address AMERICAN RECYCLING CO. 3203 WEST 71ST STREET CLEVELAND, OH 44102		10. US EPA ID Number OH 00 00 72 01 10		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility's ID	
				H. Facility's Phone 216 281-2828	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers	13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
a. HM NON DOT NON RCRA REGULATED (4FT AND 8FT FLUORESCENT LAMPS)		No. Type 005 C	02000	F	
b. NON DOT NON RCRA REGULATED MATERIAL (HID LAMPS)		003 C F	00400	F	
c. NON DOT NON RCRA REGULATED MATERIAL (CRUSHED FLUORESCENT LAMPS)		003 C F	00400	F	
J. Additional Descriptions for Materials Listed Above 11a = 4ft & 8ft fluorescent lamps on 8 ft skids 11b = HID lamps in triwall box and 2 BOXES ON 1 SKID 11c = crushed fluorescent lamps in drums		K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information EMERGENCY RESPONSE PHONE NUMBER: 800 424-9300					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Type Name GEORGE B PAUL		Signature George B Paul		Month Day Year 12/17/02	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Type Name Keith Bailey		Signature Keith Bailey		Month Day Year 12/17/02	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Type Name		Signature		Month Day Year	
19. Discrepancy Indication Space 11B Rejected BACK to CSI Based on letter ARC 11/20/02 DWK ARC Bailey 10/ARC 12/17/02					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Type Name Lance C Bailey		Signature Lance C Bailey		Month Day Year 12/17/02	

ORIGINAL RETURN TO GENERATOR

**CHEMTRON**

Chemtron Corporation  
35850 Schneider Court  
Avon, Ohio 44011

Cleveland: 440-871-8048  
Lorain: 440-937-6348

Via facsimile 330- 487-0769

December 10, 2002

Lily Aaron  
Ohio EPA  
Northeast District Office  
2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

Re: Public Information Request

Dear Ms. Aaron:

Chemtron requests the following information:

Company Name: American Recycling Company, LTD  
Company Address: P.O. Box 27486  
Cleveland, Ohio 44127-0486  
County Cuyahoga

**Documents**

**Requested:** On November 20, 2002, American Recycling Company, LTD notified its customers by letter (see attached), including Chemtron Corporation, that it was "no longer in the business of lamp recycling and [it] is liquidating." The letter instructed Chemtron to "immediately arrange" to go back to American Recycling Company and pick up waste materials even though Chemtron had already paid for the recycling of these waste materials.

On November 22, 2002, American Recycling Company sent Chemtron a list of materials that Chemtron should pick up. This undated notice was made by facsimile (see attached) with written notation reading: "To: Ron Guenther; Sorry, Buddy! 11/22/02." This facsimile notice lists six (6) other American Recycling Company customers who are in the same position as Chemtron. The facsimile notice also claims it is "confidential per OAC 3745-50-30."

Chemtron seeks to learn the identity of these six (6) other American Recycling Company customers and any other American Recycling Company customer who may have paid for recycling and then told to pick up their waste. Chemtron

Lily Aaron, Ohio EPA  
December 10, 2002  
Page 2 of 2

seeks this information in order to timely initiate class action litigation against American Recycling Company.

American Recycling Company's claim of business confidentiality is absolutely moot. The definition of a trade secret is:

"any formula, plan, pattern, process, tool, mechanism, compound, procedure, production date or compilation of information which is not patented, which is known only to certain individuals within a commercial concern who are using it to fabricate, produce, or compound an article, trade or service having commercial value, and which gives its user an opportunity to obtain a business advantage over competitors who do not know or use it." O.A.C. §3745-50-30(E)(*emphasis added*).

Since American Recycling Company is no longer in the business of recycling lamps, American Recycling Company no longer has the opportunity to obtain a business advantage over competitors and therefor has no right to a trade secret. Further American Recycling Company's claim of business confidentiality is moot since customer names are not included in the definition of trade secrets.

I have spoken with Sherry Stone at Ohio EPA, NEDO (330-963-1226) in detail about this request. She most likely has the relevant documents in her possession.

Please note that I will be on vacation from December 11-13, 2002. Time is of the essence in this request so Chemtron would sincerely appreciate any expedite processing of this request.

If you should have any questions, please do not hesitate to call me at 440-871-8048. Have a safe and healthy holiday season.

Best Regards,



Richard M. Timm, Jr.  
Chemtron Corporation  
General Counsel

Enclosures

**ARC** AMERICAN RECYCLING  
COMPANY, LTD.

P.O. Box #27486 • Cleveland, OH 44127-0486

November 20, 2002

Via Certified Mail

Mr. Jim Williamson  
Chemtron Corporation  
35850 Schneider Court  
Avon, OH 44011

Dear Customer:

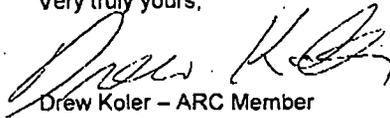
As you may have heard, American Recycling Co., Ltd. ("ARC") is no longer in the business of lamp recycling and is liquidating. As we previously advised you by letter dated August 30, 2002, as of September 30, 2002, we stopped accepting customer orders. ARC can no longer recycle any of your materials.

Presently, ARC has on its premises materials that you previously delivered or sent to us for recycling, as described below [Fluorescent and/or High Intensity Discharge Lamps]. As ARC will be unable to process these materials, and in accordance with a request we have received from the Ohio EPA, we must request that you immediately arrange for the proper transportation and disposal of all of these materials. If you have any questions regarding proper disposal of the waste you sent to ARC, please contact Sherry Slone with the Ohio EPA Division of Hazardous Waste Management. Her phone number is (330) 963-1224.

Please call ARC at 216-965-9670 to arrange for the pick up of your company materials.

We thank you for your past patronage and regret that we will be unable to serve you in the future.

Very truly yours,



Drew Koler - ARC Member

Cc: S. Slone - Ohio EPA  
T. Weber - ARC Member



A GREEN LIGHTS ALLY SPECIALIZING IN BALLAST &amp; LAMP RECYCLING

P. 04

FAX NO. 440 937 6845

DEC-10-2002 TUE 09:03 AM CHEMTRON



AMERICAN RECYCLING  
COMPANY, LTD.

P.O. Box #27486 • Cleveland, OH 44127-0486

~~Phone: (216) 291-2200 • Fax: (216) 291-2200~~

November 20, 2002

Via Certified Mail

Mr. Jim Williamson  
Chemtron Corporation  
35850 Schneider Court  
Avon, OH 44011

Dear Customer:

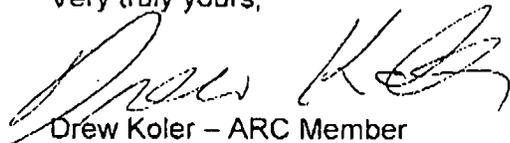
As you may have heard, American Recycling Co., Ltd. ("ARC") is no longer in the business of lamp recycling and is liquidating. As we previously advised you by letter dated August 30, 2002, as of September 30, 2002, we stopped accepting customer orders. ARC can no longer recycle any of your materials.

Presently, ARC has on its premises materials that you previously delivered or sent to us for recycling, as described below [Fluorescent and/or High Intensity Discharge Lamps]. As ARC will be unable to process these materials, and in accordance with a request we have received from the Ohio EPA, we must request that you immediately arrange for the proper transportation and disposal of all of these materials. If you have any questions regarding proper disposal of the waste you sent to ARC, please contact Sherry Slone with the Ohio EPA Division of Hazardous Waste Management. Her phone number is (330) 963-1224.

Please call ARC at 216-965-9670 to arrange for the pick up of your company materials.

We thank you for your past patronage and regret that we will be unable to serve you in the future.

Very truly yours,



Drew Koler - ARC Member

Cc: S. Slone - Ohio EPA  
T. Weber - ARC Member



Printed on  
recycled paper

A GREEN LIGHTS ALLY SPECIALIZING IN BALLAST & LAMP RECYCLING



STATE OF WISCONSIN  
 Chapter 291, Wis. Stats.  
 Form 4400-66P

Rev. 1-99

State of Wisconsin  
 Department of Natural Resources  
 Bureau of Waste Management  
 Box 8094  
 Madison, WI 53708

FOR DNR USE ONLY

ALL COPIES MUST BE LEGIBLE,  
 PLEASE TYPE

Form Approved. OMB No. 2050-0039.

Form designed for use on elite (12-pitch) typewriter.

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. OHD000720110	Manifest Document No. 10292	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address American Recycling Co., LTD 3203 W. 71 <sup>st</sup> Street Cleveland, OH 44102		Site Location If Different		A. State Manifest Document Number WI-K265676	
4. Generator's Phone (916) 281-2828				B. State Generator's ID	
5. Transporter 1 Company Name Mercury Waste Solutions, Inc. <i>ENVIRONMENTAL TNO, INC.</i>		6. US EPA ID Number WI-0000122352		C. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 219-261-9400	
9. Designated Facility Name and Site Address Mercury Waste Solutions, Inc. 21211 Durand Avenue Union Grove, WI 53182		10. US EPA ID Number WIR000000356		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility's ID	
				H. Facility's Phone 262-878-2599	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. RQ, Mercury, 8, UN2809, PGIII		0.01	DR	0.0005 G	N/A
b. RQ, Environmentally Hazardous Substance, Solid, N.O.S., 9, UN3077 PGIII (Mercury)		0.10	DR	0.000 P	D009
c.					
d.					
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information In case of an emergency call: Chemtrec: 800-424-9300 MWSI Authorization #: a. 1589-003 *ERG #: a. 172 *Land Ban Attached b. 1589-002 b. 171					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations and according to the requirements of the Wisconsin Department of Natural Resources. If I am a large quantity generator, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment;  OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name & Position Title Daniel Bickle, you behalf of ARC		Signature <i>[Signature]</i>		Date Month Day Year 10/29/2005	
17. TRANSPORTER 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name & Position Title WALTER MCCATELL (DRIVER)		Signature <i>[Signature]</i>		Date Month Day Year 10/29/2005	
18. TRANSPORTER 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name & Position Title		Signature		Date Month Day Year	
19. Discrepancy Indication Space					
20. FACILITY OWNER OR OPERATOR: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name & Position Title		Signature		Date Month Day Year	

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

Copy Distribution: 1 - Generator send to Wis. DNR  
 2 - Generator retain  
 3 - Facility send to Wis. DNR

4 - Facility retain  
 5 - Facility send to Generator  
 6 - Transporter retain

Emergency 24 Hour Assistance  
 and Spill Reporting

COPY 1 -

Copies 1 & 3 mail to Wis. DNR at above address.

Telephone Number: (800) 943-0003 GENERATOR SEND TO WI DNR

# Ohio Environmental Protection Agency

*Division of Hazardous Waste Management  
Lazarus Government Center  
122 S. Front Street, P.O. Box 1049  
Columbus, Ohio 43216-1049  
(614) 644-2917  
Fax: (614) 728-1245*

*Visit our web site at: [www.epa.state.oh.us/dhwm/welcome.html](http://www.epa.state.oh.us/dhwm/welcome.html)*

## FAX TRANSMISSION COVER SHEET

**Date:** 9/8/02

**To:** Sherry Stone, DHWM

**Fax:**

**Re:** ARC

**Sender:** Randy Ohlemacher

**YOU SHOULD RECEIVE 5 PAGE(S), INCLUDING THIS COVER SHEET.  
IF YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL (614) 644-2917.**

**Message:**

# ARC AMERICAN RECYCLING COMPANY, LTD.

P.O. Box #27486 • Cleveland, OH 44127-0486  
Phone: (216) 281-9200 • FAX (216) 281-5505

## FAX COVER SHEET

SEND TO - Company Name <b>OHIO EPA</b>	FROM <b>ARLW KOLER</b>
Attention <b>RANDY OALEMACHEA</b>	Date <b>9/5/02</b>
Office location <b>COLUMBUS, OH</b>	Office location
Fax number <b>614-728-1245</b>	Phone number <b>216-291-2828</b>

Urgent   
  Reply ASAP   
  Please comment   
  Please review   
  For your information

Total pages, including cover: 4

### COMMENTS

I HAVE ENCLOSED A COPY OF THE ARC  
 LETTER TO MARCUS GLASLOW DATED JULY 29, 2002  
 THAT SHEARI SLONE AND YOU REVIEWED EARLIER TODAY  
 AT ARC.

THANKS,  
 ARLW

RECEIVED  
 OHIO EPA  
 SEP 06 2002  
 DIV. OF HAZARDOUS  
 WASTE MGT.



## AMERICAN RECYCLING COMPANY, LTD.

P.O. Box #27486 • Cleveland, OH 44127-0486  
Phone: (216) 281-9200 • FAX (216) 281-5505

July 30, 2002

Mr. Marcus J. Glasgow  
Assistant Attorney General  
Environmental Enforcement Section  
State Office Tower  
30 East Broad Street – 25<sup>th</sup> Floor  
Columbus, OH 43215

Dear Mr. Glasgow:

Geoff Barnes and I appreciated the opportunity to meet with Greg Poulos, Jeanette Smith and you on May 30<sup>th</sup> at your office to discuss a possible settlement on the proposed American Recycling Co., Ltd. (ARC) Complaint and Civil Penalties. Below is a summary of our meeting and some updated information on the current status of ARC:

- We presented copies of the ARC 2001 Partnership Tax Return, the ARC Estimated Balance Sheet – 5/20/02 and the 1998-2001 Individual Tax Returns for Drew Koler. These supplement information previously submitted to you further demonstrating the poor financial condition of ARC. The tax returns for Drew Koler clearly demonstrate he is not in a position to contribute any further financially to support ARC.
- Some of the current assets/liabilities on the ARC Estimated Balance Sheet were clarified for you: 1) The \$75,000 listed for the Lamp Recycling Equipment asset could vary significantly depending on whether the equipment is sold as an integrated whole or split up into individual components. 2) The 56 drums of Mercury Containing Waste were broken down into the following categories for you: 12 – Intermediate Glass Product to be Reprocessed by ARC; 6 – Final Phosphor Powder to be sent off-site to Lighting Resources; and 27 – Glass Screener Fines held for further testing per Ohio EPA (OEPA) request on October 25, 2001.
- The ARC glass screener fines reclamation process, before the OEPA request at our October 25, 2001 meeting that ARC hold this material until further testing is completed, was re-explained. ARC was shipping the glass screener fines product to Strategic Materials for further processing to make into fiberglass building insulation. I explained that the original lamp recycling system was designed to collect the glass screener fines in a separate drum because we planned to use this material to make ceramic-glass tiles and other decorative/structural products at ARC. We showed you some samples of the ceramic-glass tiles we made from our recycled lamp glass and screener fines at our October 25<sup>th</sup> meeting. ARC was not able to start manufacturing the ceramic-glass tiles because of the cash flow problems due to weak lamp recycling demand.
- We explained that the lamp recycling system could be modified so that the glass screener fines are recombined inline with the larger glass pieces for shipment to Strategic Materials. There is no need to separate the glass screener fines from the larger glass pieces now because we will not be making ceramic-glass tiles from this material at ARC.

Mr. Marcus J. Glasgow  
Assistant Attorney General

- Page 2 -

- You asked if we could contact Strategic Materials for a letter confirming they would accept the glass screener fines if it were classified as a D009 characteristic waste. We explained that this was not possible because Strategic Materials is not a hazardous waste treatment facility and reclaims our glass fines as a beneficial raw material for fiberglass building insulation. We gave some examples of other materials that contain innate trace heavy metals such as power plant fly ash that is used in cement manufacturing and scrap metals used at foundries/smelting operations. These operations are similar in concept to what we were doing with our lamp glass cullet/screener fines at Strategic Materials. Cement kilns and scrap metal foundries typically are not required to obtain hazardous waste treatment permits to process reclaimed trace heavy metal containing feedstock. We also discussed how we spent a lot of time searching for a lamp glass processor because of the glut of scrap glass on the market now and we did not want to jeopardize this relationship. As you know more municipalities have stopped accepting scrap glass because of the limited outlets for the glass. I also noted after reviewing some OEPA inspection reports for other Ohio lamp recyclers that they are all shipping their lamp glass to regular trash landfills. Is this really legitimate "lamp recycling" when the glass component of lamps is approximately 90% and the glass is placed in a trash landfill?
- You requested and I provided the name of the building owner/landlord for the ARC lease which is Joe Cala of Advance Handling & Storage Products and the names of the other ARC members and their respective membership percentages which are Tom Weber (30%), Frank Marsh (9%) and Daryl Marttala (9%). You indicated that the landlord and other ARC members could be liable for the removal of the regulated waste drums at ARC. You requested that we contact the landlord to try and reach an agreement on deferring ARC rent-utility payments to accelerate the removal of the waste drums at ARC.
- Since the OEPA rejected the glass fines-sand sampling plan that ARC submitted in December 2001 and due to the continuing poor financial condition of ARC, the OEPA agreed to sample/test this material at a mutually agreeable date.
- After reviewing the above financial and operational information you stated that the State of Ohio would not pursue civil fines/penalties against ARC or Drew Koler.

We have the following updates on ARC since our May 30<sup>th</sup> meeting:

- ARC contacted the landlord on June 4<sup>th</sup> notifying him of your request to defer the rent-utilities payments towards the removal of the regulated drums at ARC. The landlord agreed that ARC could pay one-half the rent-utilities temporarily due to the landlord's current financial condition.
- ARC personnel assisted the OEPA sample some of the glass fines-sand drums at ARC on July 10<sup>th</sup>.
- I have completed a review of the ARC January-June 2002 first half recycling sales and the results are not good. First half '02 sales of \$62,000 are down 33% compared with first half '01 sales of \$93,000. We project that 2002 full year recycling sales will be down around 30% if this trend continues.

Mr. Marcus J. Glasgow  
Assistant Attorney General  
- Page 3 -

In conclusion, although we appreciate OEPA assistance with some recent sampling at ARC, the weak demand and poor cash flow from ARC lamp recycling services are not adequate to meet current expenses and long-term liabilities. We closely track the source of ARC sales leads and there is no indication of increased demand in spite of OEPA claims of the adequate enforcement and promotion of recycling for generators of spent-used lamps in Ohio. We have requested information on several occasions from OEPA inspectors on the quantity of spent-used lamps generated, disposed and recycled in Ohio and they have indicated this information is not tracked and is not a high priority with the OEPA. The old business saw that what gets measured gets done seems to apply here. Some partial and selective OEPA report information on ARC that the OEPA did release to our Cleveland Clinic customer was the primary reason the Clinic stopped using ARC on our nearly \$10,000/year lamp recycling contract. The OEPA did not include the ARC response letter to the OEPA allegations in the information they sent to the Cleveland Clinic. We met with the OEPA almost 8 years ago before starting ARC to get an explanation of the specific regulations that applied to Ohio lamp recyclers so we could plan and budget accordingly. The OEPA also had any opportunity over 5 years ago when ARC applied for and received a pollution prevention loan for the light ballast and lamp recycling equipment to go over in detail the specific regulations that applied to the lamp recycling operation so ARC could plan and budget appropriately. The recent and in our view excessively stringent OEPA operating procedures and sampling-testing requirements that you say apply to ARC now without any increased ARC lamp recycling demand have severely impacted our cash flow and bottom line.

Because of these on-going issues we regret that ARC will have to close down soon. We will work with the OEPA and other appropriate regulatory agencies to complete this process to the best of the ARC limited financial ability. We are proposing to give our customers a 30-day notice and complete processing the remaining lamp inventory at ARC.

Please contact me at 216-281-2828 to go over the ARC closure.

Sincerely,



Drew Kaler - Member  
American Recycling Co., Ltd. (ARC)

Cc: T. Weber-ARC Member, F. Maresh-ARC Member, D. Marttala-ARC Member, D. Bickley-ARC Supervisor, J. Cala-Advance Handling & Storage Products, G. Barnes-SSD



## MEMORANDUM

To: (File)

From: Elissa Miller (Reviewer); Ohio EPA Legal Office.

Date: February 3, 2023

These files were reviewed to determine whether records contained herein are confidential or otherwise exempt from the disclosure obligations of Ohio Revised Code (ORC) 149.43

     **All files are public**

No records were removed based on this review.

  X   **Some files are not public**

Records were removed or redacted for the reasons given below:

  X   **Attorney- Client Privilege**, State ex rel. Leslie v. Ohio Hous. Fin. Agency, 105 Ohio St.3d 261, 265 (2005).

     **Attorney Work Product**, Squire, Sanders & Dempsey, L.L.P. v. Givaudan Flavors Corp., 127 Ohio St.3d 161 (2010).

  --   **Confidential Law Enforcement Investigatory Records**, ORC 149.43(A)(1)(h).

     **Social Security Numbers**, State ex rel. Office of Montgomery County Pub. Defender v. Siroki, 108 Ohio St.3d 207 (2006).

  X   **Release Otherwise Prohibited by Law**, (i.e. trade secret, infrastructure and security records, etc.), ORC 149.43(A)(1)(v).

     **Other Specified Reason:**

     **All files are confidential**

Should you have any questions regarding this issue, please contact Ohio EPA's Office of Legal Services. (This

memorandum is to remain visibly attached to this file.)

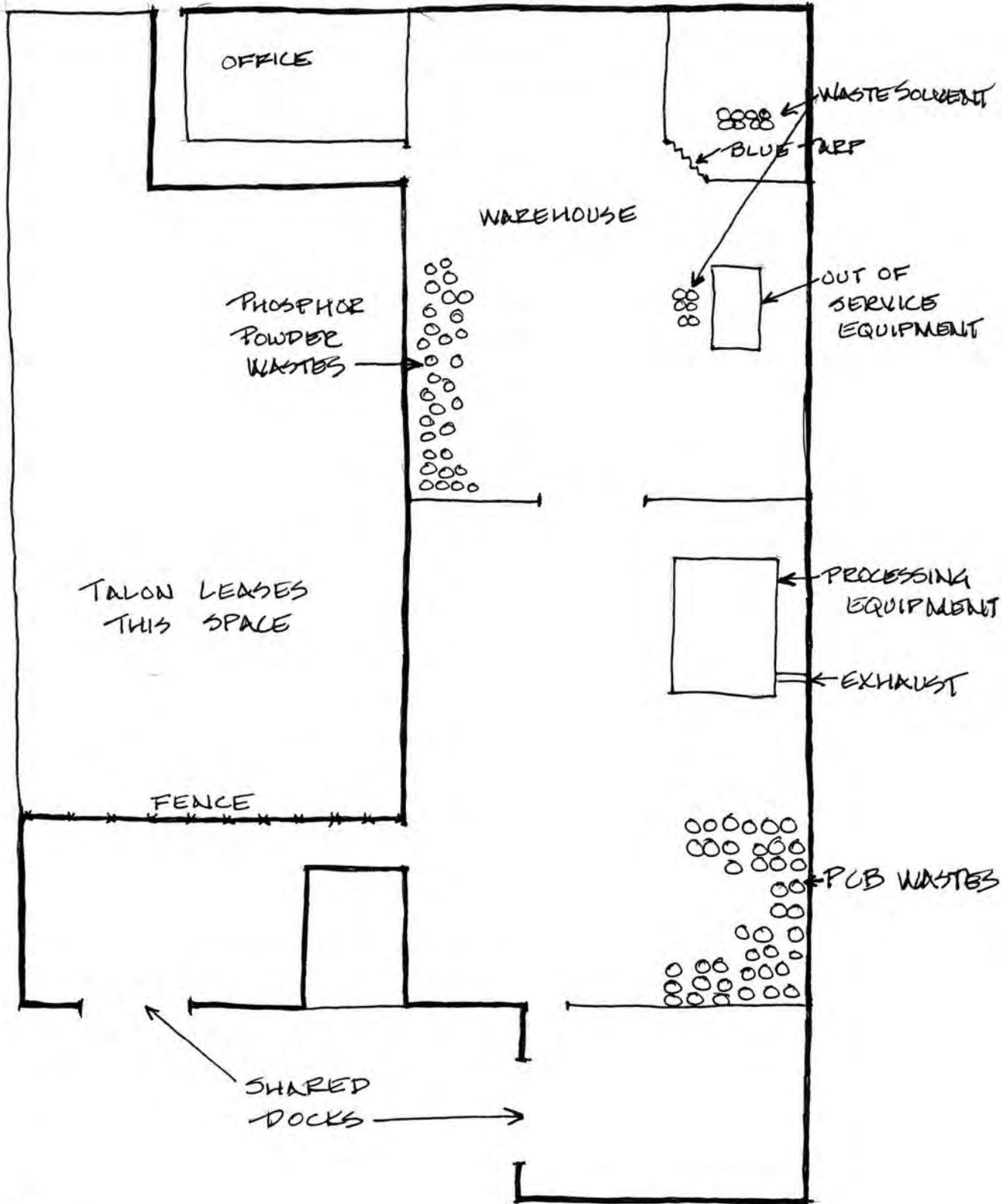
AMERICAN RECYCLING CO. #1

OHD 000 720 110

CUYAHOGA COUNTY

HW

W. 71ST ST.



↑ N  
NTS

AMERICAN RECYCLING COMPANY

# ARC AMERICAN RECYCLING COMPANY, LTD.

P.O. Box #27486 • Cleveland, OH 44127-0486  
Phone: (216) 281-9200 • FAX (216) 281-5505

**CONFIDENTIAL**

October 31, 2002

Ms. Sheryl K. Stone, P.E. via Mr. Marcus Glasgow-Assistant Ohio Attorney General  
Environmental Engineer  
Div. of Hazardous Waste Management  
Ohio EPA-Northeast District Office  
2110 E. Aurora Road  
Twinsburg, OH 44087-1969

Dear Ms. Stone:

Enclosed please find the revised estimated current inventory (as of 10/30/02) of materials at ARC that Randy Ohlmaoher and you requested during your meeting with Dan Bickley at ARC on October 30, 2002. Dan found more lamps from unknown customers while he was cleaning out the inside and behind the large light ballast walk-in freezer. Some temporary employees ARC used must have placed the lamps in the freezer and forgot about them or they quit working at ARC. Mercury Waste Solutions (MWS) removed 9 drums of phosphor powder, 1 drum of screener fines (Drum ID SF-34) and 1 partially full five gallon pail of liquid mercury from switches, pressure gauges and other mercury-containing articles to the MSW Union Grove, WI retort facility for beneficial reclamation per OAC rules 3745-51-02. Dan gave you a copy of the MWS manifest for this shipment during your meeting.

With this shipment the following lamp recycling process drums remain at ARC:

- 1 - partially full phosphor powder drum under the dust collector
- 12 - intermediate product mixture drums
- 44 - screener fines/sand drums (based on our meeting at ARC on September 5, 2002 to review the test results for 25 of the 40 total drums of screener fines that the OEPA sampled at ARC on July 10, 2002 you indicated that ARC could send 24 of the 25 drums that tested non-hazardous off-site for reclamation or disposal. Since 24 of the 25 drum samples tested non-hazardous we asked you at our September 5, 2002 meeting if ARC could use the SW-046 statistical protocols we presented to OEPA in Section 4 of our Proposed Quality Assurance Project Plan for TCLP Characterization of Screener Sand for Mercury dated December 14, 2001 for the other unsampled screener fines drums at ARC (20 drums as of the this writing). Please consider that ARC does not have sufficient funds for further sampling/testing of these 20 additional screener fines drums or for MWS reclamation of these drums if they are assumed to be hazardous waste.

We estimate it would take 30-60 days for ARC to process the remaining lamp inventory assuming there are no financial or other contingencies that negatively impact ARC.

**Please maintain the enclosed ARC Estimated Current Inventory as Confidential per OAC 3745-50-30.**

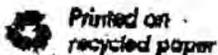
Please have Mr. Glasgow contact our attorney, Nancy Heller at 216-381-3400 with any questions.

Sincerely,

  
Drew Koler  
American Recycling Co., Ltd. (ARC) Member

Enclosures

Cc: D. Bickley-ARC Supervisor & T. Weber-ARC Member



Printed on  
recycled paper

A GREEN LIGHTS ALLY SPECIALIZING IN BALLAST & LAMP RECYCLING

# ARC AMERICAN RECYCLING COMPANY, LTD.

P.O. Box #27486 • Cleveland, OH 44127-0486  
Phone: (216) 281-9200 • FAX (216) 281-5505

**CONFIDENTIAL**

*Please maintain as Confidential per OAC 3745-50-30*

Estimated Current Inventory of Materials at ARC  
(Current as of 10/30/02)

<u>ARC Customer</u>	<u>Date Invoiced/Received</u>	<u>Quantity &amp; Description</u>
<b><u>Fluorescent/High Intensity Discharge (HID) Lamps</u></b>		
Chemical Solvents	5/7/02	1-Gaylord box of Compact lamps
Chemtron	7/2/02 & 8/23/02	8,180-4 ft. lamps 5,130-8 ft. lamps 330-HID lamps 120-U Shaped lamps 2.5 Drums of Crushed lamps
Getco	9/26/02	2 Full/Partial Drums-HID lamps
Hukill Chemical	Sept./02	300-8 ft. lamps
US Postal Service	Sept./02	750-4 ft. lamps 24-U Shaped lamps
Advanced/Venture Lighting	10/23/01	3-Gaylord boxes of small HID lamps
Unknown Customers	2001-2002	3,865-4 ft. lamps 1,320-4 ft. Shatter shield lamps 2,020-8 ft. lamps 376-Compact/U Shaped lamps 330-Incandescent Flood Style lamps 190-HID lamps 2-Gaylord boxes of mixed lamps 3-Full/Partial Drums-HID lamps

# ARC AMERICAN RECYCLING COMPANY, LTD.

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**CONFIDENTIAL**

*Please Maintain as Confidential per OAC 3745-50-30*

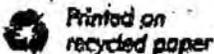
<u>ARC Customer</u>	<u>Date Invoiced/Received</u>	<u>Quantity &amp; Description</u>
---------------------	-------------------------------	-----------------------------------

### Batteries

Fairview Hospital	1/21/02, 2/28/02, 4/9/02, 6/5/02, 9/4/02, 9/26/02	1,245 lb.-Lead Acid 888 lb.-Alkaline 2 lb.-NiCad 2 lb.-Ni Metal Hydride 12 lb.-Lithium
Sherwin-Williams	4/19/02, 9/20/02	523 lb.-Lead Acid 17 lb.-NiCad 4 lb.-Ni Metal Hydride
Leader Electric	6/28/02	301 lb.-Lead Acid
Swagelok	2/8/02	92 lb.-Alkaline 23 lb.-NiCad
Washington Group	1/25/02	65 lb.-Lead Acid
Martin Wheel	6/25/02	56 lb.-Lead Acid
US Postal Service	6/5/02	41 lb.-Lead Acid
Envirosave	2/25/02	20 lb.-Lead Acid
Wooster Clinic	2/25/02	10 lb.-Lead Acid
Central Brass	6/19/02	7 lb.-Alkaline

### Computers & Related Equipment

Chemtron	3/21/02, 6/10/02, 7/2/02	2,875 lb.-Computer Equip.
Network Analysis	4/12/02	181 lb.-Computer Equip.
Washington Group	1/25/02	1,538 lb.-Computer Equip.



Printed on  
recycled paper

A GREEN LIGHTS ALLY SPECIALIZING IN BALLAST & LAMP RECYCLING

**American Recycling Company**  
**Photo Log - 9/18/01**  
**Confidentiality Requested**

*\* Photos taken by Sherry Slone with a Sony Digital Camera*

**Diskette #2**

- #1 - Process equipment, glass and metal drop-off at the left into a box, powder drops at the center into a drum**
- #2 - Process equipment, glass and metal drop-off point**
- #3 - Corrugated box for metal end caps, container with vertical holes for glass sand**
- #4 - Container for fines/sand**
- #5 - Process equipment**
- #6 - Feed chute coming down in the center**
- #33 - Loading platform of processing equipment**





AMERICAN RECYCLING  
COMPANY, LTD.

P.O. Box #27486 • Cleveland, OH 44127-0486  
Phone: (216) 281-9200 • FAX (216) 281-5505

September 10, 2002

**CONFIDENTIAL**

Ms. Sheryl K. Slone, P.E.  
Environmental Engineer  
Div. of Hazardous Waste Management  
Ohio EPA-Northeast District Office  
2110 E. Aurora Road  
Twinsburg, OH 44087-1969

Dear Ms. Slone:

Enclosed please find the estimated current inventory (as of 9/9/02) of incoming materials at ARC that Randy Ohlemacher and you requested during our meeting at ARC on September 5<sup>th</sup> and your letter dated September 6, 2002.

Most of the current inventory of Fluorescent/HID lamps at ARC that have not been processed to date were received relatively recently or are more difficult to process (e.g., Crushed lamps, Compact/HID lamps, Shatter shield lamps or other types of specialty lamps). ARC consolidates and bulk ships our Customer Batteries & Computer Equipment to off-site processors to obtain the most cost effective pricing.

As we discussed on September 5<sup>th</sup>, ARC sent a letter to most of our customers notifying them that ARC will not accept any more lamps, batteries, or computers after September 30, 2002 unless ARC finds a new buyer/partner that will continue the on-going operation in the Cleveland area. On September 5<sup>th</sup> I faxed Randy Ohlemacher a copy of the letter to Marcus Glasgow dated July 30, 2002 indicating that ARC would be closing soon and give ARC customers a 30-day notice.

We anticipate it will take 30-60 days after ARC customers stop sending us materials at the end of September to process the remaining inventory assuming there are no financial or other contingencies that negatively impact ARC.

**Please maintain the enclosed ARC Estimated Current Inventory as Confidential per OAC 3745-50-30.**

Please call Dan Bickley or me at 216-281-2828 with any questions.

Sincerely,

A handwritten signature in black ink that reads "Drew Koler". The signature is fluid and cursive.

Drew Koler  
American Recycling Co., Ltd. (ARC) Member

Enclosures

Cc: D. Bickley-ARC Supervisor  
T. Weber-ARC Member



**AMERICAN RECYCLING  
COMPANY, LTD.**

P.O. Box #27486 • Cleveland, OH 44127-0486  
Phone: (216) 281-9200 • FAX (216) 281-5505

**CONFIDENTIAL**

***Please Maintain as Confidential per OAC 3745-50-30***

Estimated Current Inventory of Materials at ARC  
(Current as of 9/9/02)

<u>ARC Customer</u>	<u>Date Invoiced/Received</u>	<u>Quantity &amp; Description</u>
<b><u>Fluorescent/High Intensity Discharge (HID) Lamps</u></b>		
Chemical Solvents	12/11/01 & 5/7/02	70-4 ft. lamps 810-8 ft. Shatter shield lamps 11-Drums of Crushed lamps 1-Gaylord box of Compact lamps
Chemtron	7/2/02 & 8/23/02	8,160-4 ft. lamps 5,130-8 ft. lamps 330-HID lamps 120-U Shaped lamps 2.5 Drums of Crushed lamps
Furbay Electric	10/25/01	420-8 ft. Shatter shield lamps
Hukill Chemical	1/16/02	30-4 ft. lamps 195-8 ft. Shatter shield lamps
Nestle	9/13/01	585-8 ft. Shatter shield lamps
US Postal Service	9/6/02	390-4 ft. lamps 24-U Shaped lamps
Advanced/Venture Lighting	10/23/01	3-Gaylord boxes of small HID lamps
Unknown Customers	2001-2002	1,560-4 ft. lamps 1,320-4 ft. Shatter shield lamps 360-8 ft. lamps 48-Compact/U Shaped lamps 330-Incandescent Flood Style lamps



# AMERICAN RECYCLING COMPANY, LTD.

P.O. Box #27486 • Cleveland, OH 44127-0486  
Phone: (216) 281-9200 • FAX (216) 281-5505

**CONFIDENTIAL**

***Please Maintain as Confidential per OAC 3745-50-30***

ARC Customer                      Date Invoiced/Received                      Quantity & Description

**Batteries**

Fairview Hospital	1/21/02, 2/28/02, 4/9/02, 6/5/02, 9/4/02	1,095 lb.-Lead Acid 888 lb.-Alkaline 2 lb.-NiCad 2 lb.-Ni Metal Hydride 12 lb.-Lithium
Sherwin-Williams	4/19/02	413 lb.-Lead Acid 17 lb.-NiCad 4 lb. Ni Metal Hydride
Leader Electric	6/28/02	301 lb.-Lead Acid
Swagelok	2/8/02	92 lb.-Alkaline 23 lb.-NiCad
Washington Group	1/25/02	65 lb.-Lead Acid
Martin Wheel	6/25/02	56 lb.-Lead Acid
US Postal Service	6/5/02	41 lb.-Lead Acid
Enviroserve	2/25/02	20 lb.-Lead Acid
Wooster Clinic	2/26/02	10 lb.-Lead Acid
Central Brass	6/19/02	7 lb.-Alkaline

**Computers & Related Equipment**

Chemtron	3/21/02, 6/10/02, 7/2/02	2,875 lb.-Computer Equip.
Network Analysis	4/12/02	181 lb.-Computer Equip.
Washington Group	1/25/02	1,538 lb.-Computer Equip.

Copy  
went to Gls.  
6/11/01

\*\*\*PRIVILEGED AND CONFIDENTIAL COMMUNICATION\*\*\*  
\*\*\*ENFORCEMENT INVESTIGATORY DOCUMENT\*\*\*

**ENFORCEMENT REFERRAL  
DIVISION OF HAZARDOUS WASTE MANAGEMENT**

\*\*\*PRIVILEGED AND CONFIDENTIAL COMMUNICATION\*\*\*  
\*\*\*ENFORCEMENT INVESTIGATORY DOCUMENT\*\*\*

*This document has been prepared to assist in the preparation and litigation of an enforcement action and is therefore subject to a number of nondisclosure doctrines.*

**TO:** Harry Sarvis, Enforcement Coordinator

**FROM:** Sherry Slone, DHWM, NEDO

**DATE:** May 25, 2001

\*\*\*\*\*

**1. Responsible Party(ies)**

a. Company Name: American Recycling Company, Ltd.

Individual(s) Name: Drew Koler, managing member

b. DBA's or previous names:

c. Address: 3203 W. 71<sup>st</sup> St., Cleveland 44127-0486

County: Cuyahoga

d. Contact Person(s): Drew Koler, PO Box 27486, Cleveland, OH 44127-0486

e. Telephone Number: 216-281-2828 or 216-281-9200

**2. Parent Company (if applicable) - na**

**3. Property Owner(s) (If Known)**

**\*\*\*PRIVILEGED AND CONFIDENTIAL COMMUNICATION\*\*\*  
\*\*\*ENFORCEMENT INVESTIGATORY DOCUMENT\*\*\***

- a. Name: Advance Handling and Storage, Inc.
- b. Address: 3203 W. 71<sup>st</sup> St., Cleveland, Ohio 44102
- c. Telephone Number: ?
- d. Date of Purchase: ?
- e. Source of Information: Drew Koler

**4. Regulatory Status (check appropriate lines)**

<u>      </u>	TSD Facility (Permitted)	<u>      </u>	Generator
<u>  x  </u>	TSD Activity (Unpermitted)	<u>  x  </u>	SQG *
<u>      </u>	Transporter	<u>      </u>	CESQG
<u>  x  </u>	Recycler or Reclaimer		

\* notified as SQG in 5/99

- a. Is facility currently operating/active?   X   yes     No\*

\* Explanation: \_\_\_\_\_

**5. Permit and/or I.D. Number: OHD000720110**

**6. Types of Waste(s) Generated or Managed and Quantities and Types of Hazardous Waste Management Units:**

Illegally storing approximately 74 drums of mercury contaminated phosphor powder. Approximately one drum per month of this material is currently being generated.

**7. Violation(s) Description**

- a. Identify Location of Violating Facility (if different than Number 1 above):

Same

- b. Location of violation(s): attach facility diagram identifying location of unpermitted units. West side of warehouse (See attachment #1.)

\*\*\*PRIVILEGED AND CONFIDENTIAL COMMUNICATION\*\*\*  
\*\*\*ENFORCEMENT INVESTIGATORY DOCUMENT\*\*\*

- c. Violation(s) cited (list statutory and regulatory citation and provide brief description (i.e., OAC rule 3745-52-33 Placarding):

Storage of Hazardous Waste at an Unpermitted Facility, ORC 3734.02(F)

Transporting a Hazardous Waste to an Unpermitted Facility, ORC 3734.02(F)

Waste Evaluation, OAC3745-52-11

- d. Provide brief narrative of violation(s) noted above (how long or how often its occurred) and identify evidence to document each violation:

Illegal storage of hazardous waste has occurred at this facility since moved there in February 1999. Appears accumulation of mercury contaminated phosphor powder has been ongoing for about 6 years. Approximately 50 drums of this waste was illegally transported from ARC's previous facility to the current one in February 1999. Approximately 10 unevaluated drums of waste solvent were stored in the warehouse. It is unknown how long these have been there.

8. **Statement as to actual or potential environmental and/or health effects of violation(s):**

Potential for containers to lose contents while being stored.

9. **Identify any economic benefits realized or potentially realized because of violation(s), explain:**

ARC has realized the economic benefit of not disposing of these 74 drums for about 6 years and the 10 drums for an unknown amount of time. Also ARC has realized an economic advantage of not complying with all of the storage facility requirements including permitting, personnel training, inspections, operating record, financial assurances, inspections, and etc.

10. **Identify any aggravating circumstances, entity recalcitrance or indifference toward the violation(s) or others [What measures has the facility taken since violations were originally cited to correct them?]:**

Upon our first visit to the site, the business owner was not cooperative and did not allow us to tour the site. He said he didn't have time to meet with us that day and wanted us to return at a scheduled time. He was more cooperative on our

**\*\*\*PRIVILEGED AND CONFIDENTIAL COMMUNICATION\*\*\***  
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second scheduled visit after the AGO had a phone conversation with him.

We have since found that **many** generators send their lamps to ARC expecting that the lamps are legitimately and totally recycled.

- 11. Measures to remedy the violation(s) (e.g., what does the facility need to do to correct the remaining outstanding violations):**

ARC must immediately arrange for the proper transportation and treatment or disposal of the mercury contaminated phosphor powder. ARC must immediately evaluate its waste solvent and properly dispose of it. Also ARC must explain how the phosphor powder will be managed as it continues to be generated.

- 12. Provide brief narrative of past or pending enforcement actions already taken against entity for previous violation(s) (including letters, telephone calls, meetings, etc.). Include a discussion on any repeat violations:**

No previous enforcement actions.

- 13. Provide summary of known strengths or weaknesses of case, defenses or claims to be raised by entity, extenuating or mitigating circumstances:**

Entity will probably claim that somehow the mercury contaminated phosphor powder can be reused. It appears that ARC has been unable to come up with a way to reuse it though for the last six years.

- 14. Identify areas of case in need of further development, interpretation and status of same:**

None.

- 15. Chronology of Events (site inspections, letter, meetings, telephone calls, etc.) [Identify documents and attach copies]:**

(See attachment #2.)

March 8, 2001 - Rose Connelly, Randy Ohlemacher and Sherry Slone visited the site. This was to be an information gathering visit about lamp recycling facilities lead by the Technical Support Unit. Mr. Koler was not receptive to meeting with

**\*\*\*PRIVILEGED AND CONFIDENTIAL COMMUNICATION\*\*\***  
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us or giving us a site tour. We agreed to come back the following Monday or Tuesday.

March 12, 2001 - Site visit by Rose Connelly, Randy Ohlemacher and Sherry Slone. Photographs taken. Significant violations noted.

March 14, 2001 - File notes regarding 3/12/01 site visit.

April 4, 2001 - Decision was made for Sherry Slone at NEDO to take lead rather than Rose Connelly from CO since referral was anticipated.

April 19, 2001 - NOV sent to ARC

May 15, 2001 - ARC response to NOV

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**16. Index of Physical Evidence**

a. Photographs [for photographs list number of photos, photographer, date of photos, subject matter and attach duplicates or originals]:

(See attachment #3.)

b. Information on Sampling Conducted:  
NA

**17. Potential witness list (name, address and phone number of person(s) with first hand knowledge related to the violation(s). Indicate if confidentiality requested:**

Rose Connelly - CO, DHWM - 614-644-2667

Randy Ohlemacher - CO, DHWM - 614-644-2971

Sherry Slone - NEDO, DHWM - 330-963-1226

**18. Identify complaints from the public against the facility or person(s), if any, and any other known citizen or political interest:**

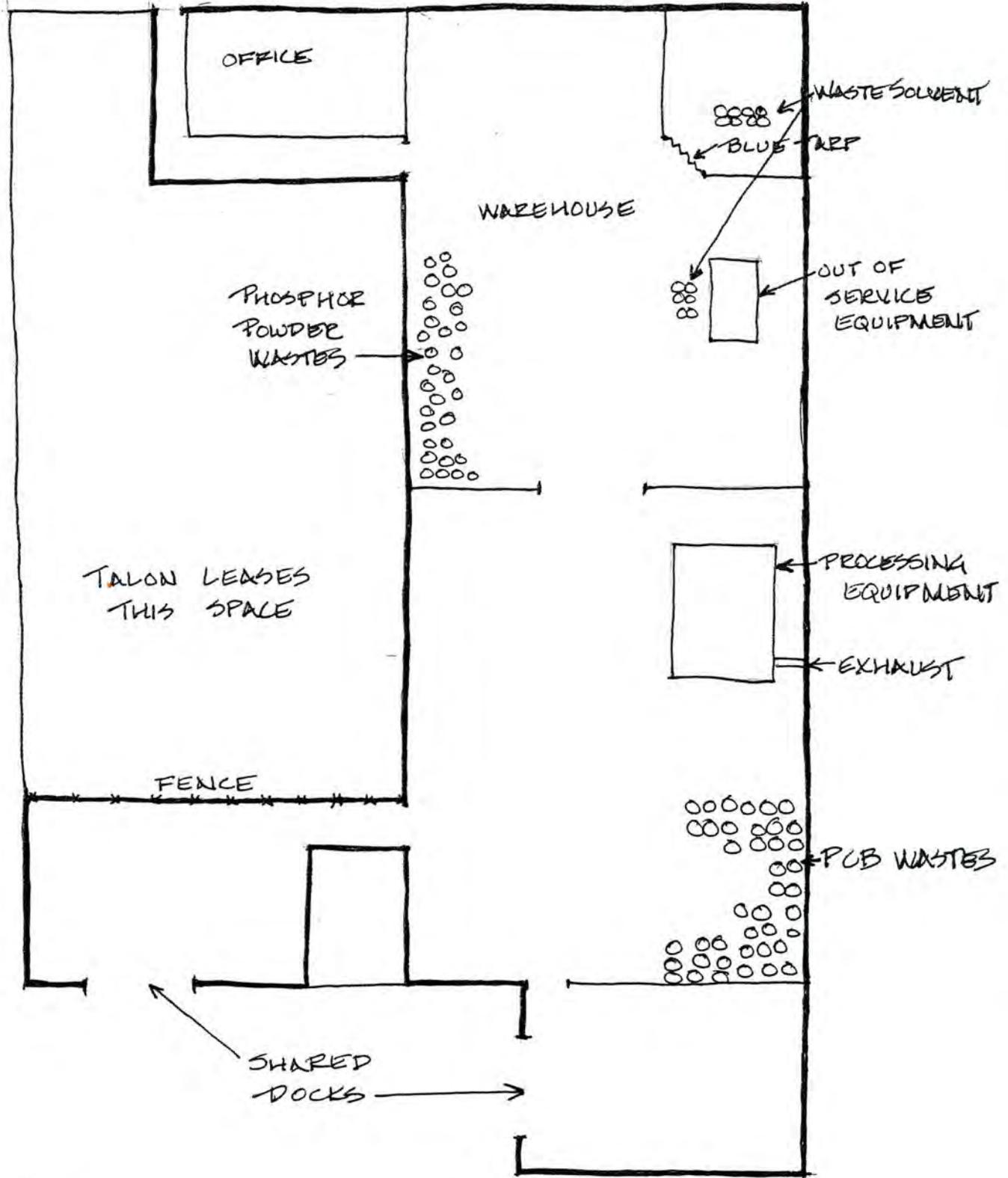
None known.

**19. Knowledge of any outstanding violations and/or enforcement action in other regulatory programs by Ohio EPA, U.S. EPA or Ohio Attorney General's Office and the extent of coordination between programs:**

None known.



W. 71<sup>ST</sup> ST.



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NTS

AMERICAN RECYCLING COMPANY

**CONFIDENTIAL LAW ENFORCEMENT RECORD  
ENFORCEMENT REFERRAL  
INVOLVEMENT WITH OTHER DIVISIONS**

Facility/Entity: American Recycling Company, LTD, Cleveland, Cuyahoga County

**(A)** Have you notified the following divisions that DHWM is considering enforcement action?  
(not applicable for division initiating request)

	Y/N	
DAPC*	Y	Person Contacted: Jim Veres
DSW	Y	Person Contacted: Dennis Lee
DSIWM*	Y	Person Contacted: Lynn Sowers
DERR	Y	Person Contacted: Rod Beals
SIS	Y	Person Contacted: Ron Fodo
DDAGW	Y	Person Contacted: Scott Williams
DHWM	NA	Person Contacted

\* The Division preparing this referral should rely on DAPC and DSIWM respectively to contact Air Locals and Approved Health Departments as needed.

**(B)** Which of the following Divisions (other than the one originating this action) have identified violations related to the Entity/Facility?

DAPC \_\_\_\_\_ DSW \_\_\_\_\_ DSIWM \_\_\_\_\_ SIS \_\_\_\_\_  
DDAGW \_\_\_\_\_ DHWM \_\_\_\_\_ DERR \_\_\_\_\_

**(C)** If noted in (B) above, briefly describe the violations and the current status of the violations (attach additional sheets as necessary).

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**(D)** Which of the following divisions, if any, have taken or are considering enforcement action against the entity/facility?

DAPC \_\_\_\_\_ DSW \_\_\_\_\_ DSIWM \_\_\_\_\_ SIS \_\_\_\_\_  
DDAGW \_\_\_\_\_ DHWM \_\_\_\_\_ DERR \_\_\_\_\_

**(E)** If noted in (D) above, briefly describe the current status of the enforcement action.

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**(F)** Which divisions should be considered as part of a joint enforcement action?

DAPC \_\_\_\_\_ DSW \_\_\_\_\_ DSIWM \_\_\_\_\_ SIS \_\_\_\_\_  
DDAGW \_\_\_\_\_ DHWM \_\_\_\_\_ DERR \_\_\_\_\_

**Enforcement Coordinators:**

DSW=Dennis Lee      DHWM=Marlene Kinney      DSIWM=Lynn Sowers      SIS=Ron Fodo  
DAPC=Dennis Bush      DDAGW=Scott Williams      DERR=Rod Beals

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**ENFORCEMENT REFERRAL  
DIVISION OF HAZARDOUS WASTE MANAGEMENT**

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**TO:** *Harry Sarvis, Enforcement Coordinator*

**FROM:** *Sherry Slone, DHWM, NEDO*

**DATE:** *May 25, 2001*

\*\*\*\*\*

**1. Responsible Party(ies)**

a. *Company Name: American Recycling Company, Ltd.*

*Individual(s) Name: Drew Koler, managing member*

b. *DBA's or previous names:*

c. *Address: 3203 W. 71<sup>st</sup> St., Cleveland 44127-0486*

*County: Cuyahoga*

d. *Contact Person(s): Drew Koler, PO Box 27486, Cleveland, OH 44127-0486*

e. *Telephone Number: 216-281-2828 or 216-281-9200*

**2. Parent Company (if applicable) - na**

**3. Property Owner(s) (If Known)**

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- b. Address: *3203 W. 71<sup>st</sup> St., Cleveland, Ohio 44102*
- c. Telephone Number: *? \_\_\_\_\_*
- d. Date of Purchase: *? \_\_\_\_\_*
- e. Source of Information: *Drew Koler*

**4. Regulatory Status (check appropriate lines)**

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<u>  x  </u>	TSD Activity (Unpermitted)	<u>  x  </u>	SQG *
_____	Transporter	_____	CESQG
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\* notified as SQG in 5/99

- a. Is facility currently operating/active?   X   yes    \_\_\_ No\*

\* Explanation: \_\_\_\_\_

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NA

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Randy Ohlemacher - CO, DHWM - 614-644-2971  
Sherry Slone - NEDO, DHWM - 330-963-1226

**18. Identify complaints from the public against the facility or person(s), if any, and any other known citizen or political interest:**

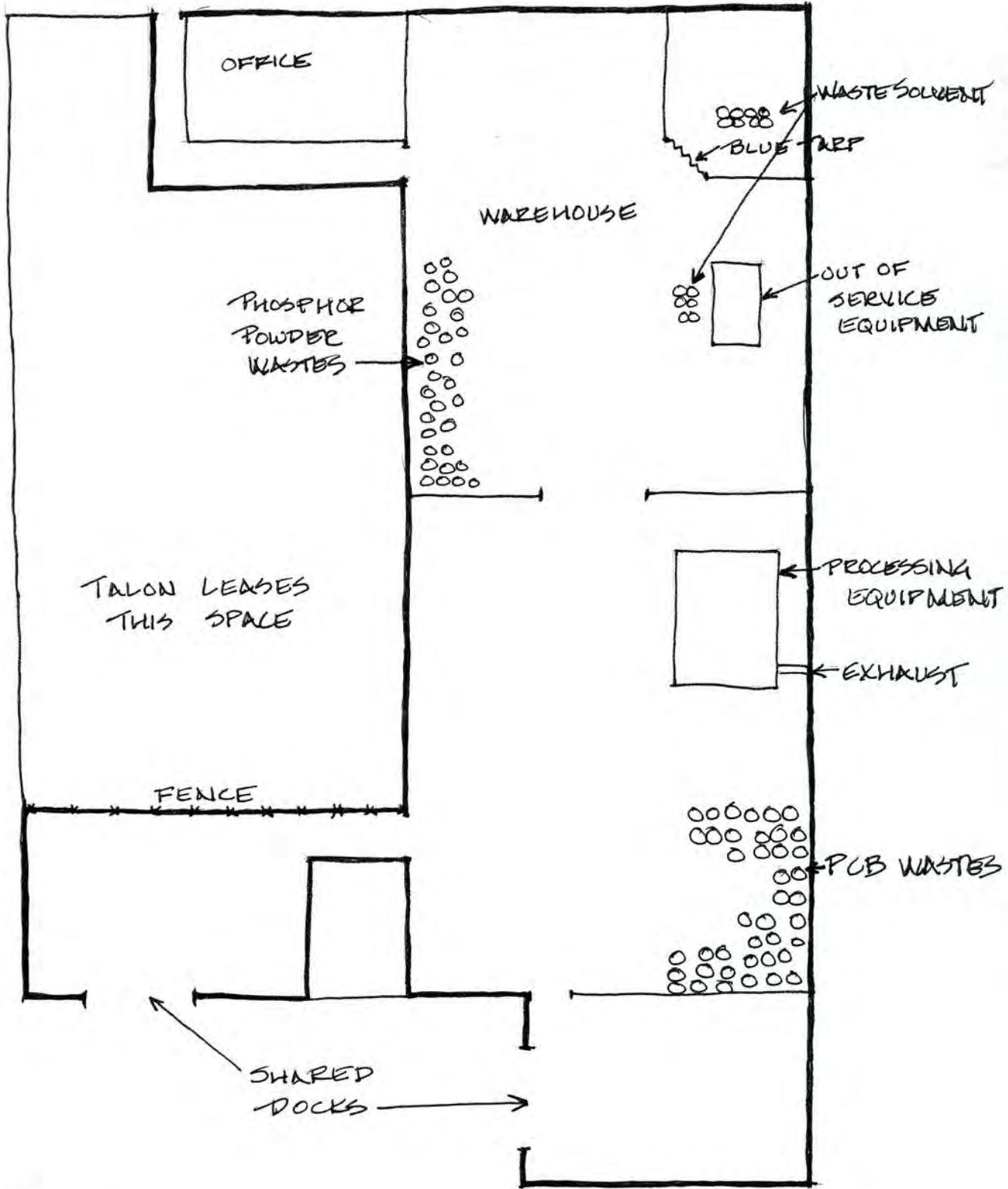
None known.

**19. Knowledge of any outstanding violations and/or enforcement action in other regulatory programs by Ohio EPA, U.S. EPA or Ohio Attorney General's Office and the extent of coordination between programs:**

None known.



W. 71<sup>ST</sup> ST.



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NTS

AMERICAN RECYCLING COMPANY

# Memo

**To:** File  
**From:** Sherry Slone  
**Date:** March 14, 2001  
**Subject:** Notes from Inspection at American Recycling Company, LTD.

## Inspection March 12, 2001

*Rose Connelly (lead), Randy Ohlemacher, and Sherry Slone*

Met with Drew Koler and Dan I.n.u.(process supervisor). Drew explained that American Recycling Company (ARC) accepts HID and fluorescent lamps for recycling. Other items accepted are sent on to treaters or brokers. Batteries are sent to Mid West Guardian in Wapekoneta, Ohio. CRT's, keyboards and computers are sent to Great Lakes Electronic Recycling. Switches are sent to Chemtron or to Mercury Waste Solutions. Safety Kleen is used as a broker for ballasts. Not all ballasts have PCB's. Haven't accepted ballasts since moved to this site in February 1999. 95% of incoming lamps are in cardboard boxes. 5% are in fiber or steel drums.

Talon, the occupant of an adjacent leased space, shares the loading dock with ARC. (The building is owned by Advance Handling and Storage, Inc.) As lamps come in they are palletized. Occasionally lamps are broken when they come in. When this is the case, the lamps are transferred to steel drums. Whole lamps are easier to process than crushed. All storage of lamps is done within the building on a concrete floor. Initially Drew told us there were no floor drains. However some were noticed during our walk-through and pointed out to Drew, and he then said they were plugged.

## Process

The customer packages their own lamps. If the lamps have been broken, ARC sends an open head steel drum with a gasket to the customer. The lamps are transported in on a non-haz manifest or bill of lading. Upon receipt at ARC, a visual inspection is done. They are staged close to the processing equipment and processed in the order received. The lamps are stacked on pallets and a fork lift is used to lift the pallets to the feed platform. The lamps are placed on an inspection table (negative air pressure) where they are counted. They are then fed into a chute to a crusher, through a separator and sieves. The end caps and glass go into gaylords and the phosphor powder and glass fines or sand go into drums. (The equipment used is called a 5M ARC system and Drew gave Rose a copy of their marketing literature for this system.)

The entire process is closed and under negative pressure. High efficiency filters are located before the exterior exhaust. Drew said he has talked with Nancy Meli and Dennis Bush from NEDO DAPC. Emissions are de minimis and therefore no point source permit was needed. The filters have a back cleaning feature and have not had to be changed yet (2 years). Randy advised Drew that TCLP should be done on the filters when they are removed. A TCLP was done on the glass and it was found to be non-haz.

The glass is given or sold at a very low price to Strategic Materials in Indianapolis. The glass is used for art glass purposes, for fiberglass insulation and for synthetic granite wall surfacing. End caps go to Chemetco, a broker on the east side of Cleveland, that sells them to the steel mills. The phosphor powder has been accumulating in drums and a known recycling use has not yet been found. Drew said the phosphor powder would be TCLP for mercury, D009, if the powder was a waste. He has been thinking about how the powder might be used in building materials such as blocks. However, the phosphor would not be taking the place of a needed ingredient. It would be a method to avoid disposal in a landfill. Approximately 70 drums of phosphor powder is in storage. Drew said they need to send the contents of most of these drums back for reprocessing through their newer equipment because the pieces of glass in the powder are too large. This hasn't been done because it takes time and doesn't make money. Phosphor solution was sent to Mercury Waste Solutions in past. (This company was bought out by Superior Services.) One drum of D009 was sent on a manifest to Mercury Waste Recyclers on 3/18/98. No phosphor has been sent off-site from this location (since 2/99). Most of these drums were brought over from the previous site.

About 25000 lamps are received per month. 100% of these are recycled. Less than 1 drum per month of phosphor powder is generated from the process. It costs about \$500 per drum to send phosphor powder to a retort facility. Adding retort equipment to their system would not be economically efficient. HID lamps don't have phosphor coating like fluorescent lamps. Some fluorescent lamps have a plastic coating (Shattershield) that make them harder to process. These are processed together but separately from regular fluorescent lamps.

#### Misc.

Operating hours are from 8:30-4:30. ARC has three employees including Drew. They also employ independent drivers as needed. Drew is thinking of adding a second shift.

ARC notified as a SQG in 5/99. Drew indicated this was a protective filing but don't routinely generate haz waste. Want to maintain ID# for any phosphor sent to a retort facility.

Drew indicated the phone number for ARC on our fact sheet is wrong.

Drew is in favor of Ohio EPA adopting the UWR because it would level the playing field across states.

#### Walk Through

We walked through the warehouse area first. A corner room had a blue tarp covering its doorway. 8 - 10 drums of solvent/oil were found in this area. Some of those might be empty.

The solvent was used at their previous facility for ballast recycling. The warehouse contained numerous drums of phosphor powder. Drew said there were about 74 drums. There was no aisle space around these drums to inspect. Dates of 2/00, 1/00, 4/99, and 5/99 were observed on drums near the process area. Gaylords of capacitors were also stored with the phosphor powder on the west side of the warehouse area. Floor drains were noted and Drew said he thought they were blind. We inspected the loading dock area and the process area.

Over 300 drums of ballasts were being stored in the southeast corner of the process room. There was no aisle space to inspect these drums which were stacked 4 pallets high. Drew said most of these were brought over from the previous facility where they recycled PCB ballasts.

#### Exit Discussion

Drew will confirm with the landlord that the floor drains have been plugged. Most ballasts are from previous site. Reviewed the MSDS for the solvent that was used in a parts washer. Flash point was 120 F. Drew said he would dispose of all solvent properly with Chem Solvents.

PCB process wastes at previous site are being sent to Safety Kleen at the rate of two drums per month. Our files showed wastes were last sent off-site in December. Drew had manifest #01261 showing 2 drums were sent off on January 26, 2001 and another manifest for 2 drums at the beginning of March (for February). Plans to do another shipment in March.

Randy advised Drew of his speculative accumulation violation for the phosphor powder. Randy also advised him to open and number all drums of solvent. He will need to characterize these wastes by running organics, metals, and PCB's.

Rose indicated she would follow up with a letter.



State of Ohio Environmental Protection Agency

Northeast District Office

2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

April 19, 2001

RE: AMERICAN RECYCLING CO., LTD.  
OHD000720110  
CUYAHOGA COUNTY

Mr. Drew Koler  
American Recycling Company, LTD.  
P.O. Box #27486  
Cleveland, Ohio 44127-0486

CERTIFIED MAIL

Dear Mr. Koler:

Thank you for cooperating on March 12, 2001 when Rose Connelly, Randy Ohlemacher and I visited American Recycling Company, Ltd. (ARC) at 3203 W. 71<sup>st</sup> Street in Cleveland, Ohio. We had originally come on March 8, 2001, but you stated you could not meet with us that day so we arranged to come back on the 12<sup>th</sup>. We visited ARC to determine how lamps are being managed, how each product of the recycling/dismantling operation is being used, how materials are being handled on site, and what quantities of lamps and other materials are being handled. We did not conduct a complete hazardous waste compliance evaluation inspection but we did discover several **significant violations** during our visit.

We understand ARC is a recycling company that accepts primarily fluorescent and high intensity discharge lamps. ARC also accepts and then serves as a broker for other items such as batteries, keyboards, computers, and switches. About 25000 lamps are received per month and 100% of these are recycled. The lamps are received with non-hazardous waste manifests or bills of lading at a loading dock which is shared with the occupant of the adjacent leased space in the same building. As lamps come in they are visually inspected. If lamps are broken, they are transferred to a steel drum with a lid. The lamps are secured onto a pallet and staged close to the processing equipment. They are processed in the order received. A fork lift is used to lift the pallets to the elevated feed platform. The lamps are placed on an inspection table where they are inspected and counted prior to entering the feed chute of the system. The lamp crushing system is under negative air pressure as it separates the lamps into the components of glass, end caps and phosphor powder. The glass continues through the system for further separation. It is screened on a shaker and separated into sand-like fines and larger pieces of glass. Glass and end caps are collected in large, heavy-walled, corrugated boxes. Phosphor powder and glass fines are collected in fifty-five gallon drums. High efficiency filters are located before the exterior exhaust. They have a back cleaning feature and have not been changed since at least February 1999. (These filters will need to be properly evaluated when they are removed to determine if they are a hazardous waste.)



AMERICAN RECYCLING CO., LTD.

APRIL 19, 2001

PAGE - 2 -

The glass is given or sold at a very low price to be reused for fiberglass insulation. Other reuses such as art glass and synthetic granite wall surfacing are being considered. ARC has sampled the glass and has had a toxicity characteristic leaching procedure (TCLP) test performed on it. The glass was determined to be non-hazardous. End caps go to a broker in Cleveland that sells them to steel mills for recycling. The phosphor powder has been accumulating in drums and a known recycling use has not yet been found. You acknowledged the phosphor powder would be a D009 hazardous waste because of its mercury content if sent off-site as a waste. One drum of this waste was manifested off-site on March 18, 1998 as a hazardous waste from your former site at 6701 Hubbard Ave. in Cleveland to a mercury treatment facility. Approximately 74 drums of this waste are being stored in your facility. You estimated that approximately one drum per month of this waste is generated and most of this stored waste was brought over from the previous location.

We found the following violations of Ohio's hazardous waste regulations and laws.

1. **Storage of a Hazardous Waste at an Unpermitted Facility and Transporting a Hazardous Waste to an Unpermitted Facility - Ohio Revised Code (ORC) 3734.02(F)**

According to Ohio Administrative Code (OAC) rule 3745-51-02(B), materials are wastes when they are accumulated or stored before or in lieu of being disposed. The mercury contaminated phosphor materials are wastes because they have been accumulated in lieu of being disposed. One drum was manifested as a hazardous waste in 1998 but none since. ORC 3734.02(F) prohibits any person from storing a hazardous waste at a facility that does not have a hazardous waste permit. These wastes have been accumulated for over six years, based on 74 drums being stored with a generation rate of one drum per month. The current and the previous facilities do not have a hazardous waste permit and therefore these wastes have been illegally stored at the current location since February 1999.

Also ORC 3734.02(F) prohibits any person from transporting or causing to be transported hazardous waste to an unpermitted facility. ARC transported, or caused to be transported, approximately 50 drums of the mercury contaminated phosphor waste illegally from its previous location to the current location in February 1999.

**ARC must immediately arrange for the proper transportation and treatment or disposal of these wastes.** Please submit copies of manifests to me within 30 days of the date of this letter showing that these wastes have been removed from the site. Also submit a written explanation, within 30 days of the date of this letter, describing how these wastes will be managed as they continue to be generated.

Be advised that since ARC has accumulated hazardous waste for over 90 days at this facility, it is the operator of a storage facility according to OAC rule 3745-52-34, and is subject to the requirements of rules 3745-50-40 to 3745-50-62, 3745-54 to 57, and 3745-65 to 3745-69. Please inform me, within 30 days of the date of this letter, of any efforts you have taken to comply with any of these rules.

**2. Waste Evaluation - OAC rule 3745-52-11**

ARC failed to evaluate the waste solvent generated from its former ballast recycling operation, or other operations, to determine if it is a hazardous waste. At the time of the inspection, ARC was accumulating the waste solvent in ten 55-gallon drums in a northeast room of the warehouse, behind a hanging blue tarp. Unevaluated waste solvent was also located outside of the blue tarp, on the east side of the warehouse. Some of these containers were labeled "used solvent" and some were not labeled but acknowledged to be used solvent. A material safety data sheet for this solvent showed the original flash point was 120 degrees Fahrenheit.

ARC must immediately evaluate its waste solvent to determine if it is a listed or characteristic hazardous waste pursuant to OAC rule 3745-52-11. We are requesting that you notify us at least five business days in advance of any sampling of these solvents, so that we can be present when you sample. You indicated you would dispose of all solvents properly at Chemical Solvents, a permitted hazardous waste facility. Within 30 days of the date of this letter, submit manifests showing that this waste has been properly removed from the site.

We have the following concerns with your facility:

During the entrance interview you told us that phosphor powder generated during the lamp recycling operations could potentially be incorporated into building materials such as blocks. You indicated the powder would not be taking the place of a needed ingredient. Be advised this would not constitute legitimate recycling, and therefore the powder would still be considered a hazardous waste and need to be managed as such.

During our tour of your facility you verified that you are storing over 300 drums of PCB and non-PCB ballasts. These drums were stacked 4 pallets high, with no aisle space. These ballasts were intended to be recycled using ARC's ballast recycling equipment at its former location. You do not perform ballast recycling at your present site. Most of the 300 drums were brought over from your previous site in February 1999 and you have no immediate plans to manage these containers. We have notified Kenneth Zolnierczyk at USEPA Region 5 and will be following up with him regarding your PCB waste.

AMERICAN RECYCLING CO., LTD.  
APRIL 19, 2001  
PAGE - 4 -

During the tour we noticed floor drains in the area where the phosphor waste was being stored. You indicated that you would confirm with your landlord that the drain lines have been plugged.

Enclosed you will find a copy of the checklist completed during our visit. A copy of the hazardous waste rules and laws can be found on our web site at [www.epa.state.oh.us](http://www.epa.state.oh.us). If you should have any questions or need any assistance, please feel free to contact me at (330) 963-1226. Please submit the above requested items to my attention at the northeast district office.

The absence of listing a specific deficiency in this letter does not relieve ARC from the responsibility to comply with all applicable hazardous waste regulations.

Sincerely,



Sheryl K. Slone, P.E.  
Environmental Engineer  
Division of Hazardous Waste Management

SKS:ddw

cc: Jeff Mayhugh, IT&TS, DHWM  
Rose Connelly, IT&TS, DHWM  
Randy Ohlemacher, CAS, DHWM  
Natalie Oryshkewych, NEDO, DHWM  
Linda Neumann, CO, DHWM  
David Hearne, Cleveland Bureau of Air Pollution Control

Enclosure

# Fluorescent Lamp Recycler Site Visits

Company: American Recycling Company, Ltd. EPA ID#: OHD000720110  
Street: 3203 W. 71<sup>st</sup> Street City: Cleveland  
County: Cuyahoga State: Ohio Zip: 44102  
Mailing Address: P.O. Box 27486 Cleveland, Ohio 44127-0486  
(If different from above)  
Telephone: 216-281-9200 Fax #: 216-281-5505  
Owner/ Operator: Advanced Handling & Storage Inc. Joe Cala 651-4477 or 440-248-6202  
(If different from above)  
Street: same  
City: \_\_\_\_\_ State: Ohio Zip: \_\_\_\_\_  
Inspection Date(s): March 12, 2001 Time(s): 11:45 a.m. to 4:20 p.m.  
Inspection Announced?  Yes  NO If so, how much advance notice given? 4 days

	<u>Name</u>	<u>Affiliation</u>	<u>Telephone</u>
Inspectors:	<u>Rose Connelly</u>	<u>Ohio EPA DHWM, CO</u>	<u>614-644-2667</u>
	<u>Randy Ohlemacher</u>	<u>Ohio EPA DHWM, CO</u>	<u>614-644-2971</u>
	<u>Sherry Stone</u>	<u>Ohio EPA DHWM, NEDO</u>	<u>330-963-1226</u>
Facility Representative:	<u>Drew Koler</u>	<u>Environmental Coordinator</u>	<u>216-281-9200</u>

**NOTE: The four major goals of fluorescent lamp recycler site visits are:**

- 1. Determine how the lamps are being managed;**
- 2. Determine how each product of the recycler/dismantler operation is being used;**
- 3. Determine how all handlers are managing materials on site; and**
- 4. Determine the quantities of lamps and other materials which are being recycled.**

STORAGE (UPON RECEIPT)

Upon receipt how are lamps being stored?

1. Are they stored in containers? Yes or No (describe the type of container(s) used)

*Lamps are received in the original lamp boxes and then palletized, and stacked prior to processing.*

2. Is storage inside/outside? (circle the applicable response). Describe where at the facility containers are being stored.

*Lamps are received at facility's loading dock and stored inside the facility. Lamps are stored at various locations within the facility. Most lamps are in boxes on pallets, but some boxes are stored on the floor.*

3. Does storage occur on an impermeable surface? Yes or No, please describe.

*Lamps are stored on pallets on the facility's concrete floor.*

4. Is storage in areas where an environment release may cause harm? (Such as floor drains, ponds, wells) Yes or No, please describe.

*There are three visible floor drains within the facility. ARC has been told by building owner that drains are not functional.*

5. Are bulbs broken when received? Yes or No, please describe.

*Yes, ARC does accept broken bulbs. Broken bulbs are placed in an open top w/bolt ring cover US DOT approve steel drum. ARC will supply broken lamp drums if necessary. Broken bulbs are managed first.*

6. Are broken bulbs placed on the ground. Yes or No, please describe.

*Broken bulbs are stored in 55 gallon steel drums that are placed on pallets.*

7. How are broken bulbs handled?

*Broken bulbs are segregated by type and placed in drums.*

## RECYCLING PROCESS

1. Provide a detailed diagram describing the process(es). The information provided should include the technology used, materials going into the process, waste generation points, end points, etc.

*ARC receives shipments of lamps at facility's loading dock and performs an initial visual inspection. Shipments are off-loaded onto pallets or onto the floor. If bulbs are broken, they are set aside to be managed first. ARC maintains a first in, first out processing rule, but manages broken bulbs before any other type. If containers have not already been placed on pallets, they are placed on pallets at this time and then moved to an area where they will be kept prior to processing. When it is time for lamps to be processed, a forklift transfers the pallet onto a raised platform. Containers of lamps are opened onto an inspection table where they are visually inspected before being fed into the lamp crushing system. Lamps are tallied before entering into the mouth of the system. The lamp crushing system is under negative air pressure as it separates the lamps into glass, end caps and phosphor powder. The glass continues through the system for further separation; it is screened on a shaker and separated into sand-like fines and larger pieces of glass. Glass is collected in large, heavy-walled, corrugated Gaylord boxes. End caps are also collected in similar Gaylord boxes. Phosphor powder is collected in fifty-five gallon drums. ARC maintains that they recently changed their crushing process so that powder is better separated from glass pieces. ARC has not shipped phosphor off-site since they've moved to their present location (notified as Small Quantity Generator (SQG) as of May 1999).*

2. What components are being recycled? (Include a list of the recycled components).

*Glass, glass fines and end caps*

3. How is each component being recycled?

*Glass and fines are shipped to Strategic Materials in Indianapolis, Indiana to be used in production of fiberglass insulation for commercial buildings.*

*End caps are shipped to Chemetco in Cleveland, Ohio who then sells them to steel mills for smelting. ARC is unsure what is done with end caps after smelting.*

4. What wastes are generated from the recycling process?

*Phosphor powder containing mercury.*

5. What happens to these wastes? (are they evaluated?, properly managed?, where are they going?)

*Phosphor powder has not been evaluated and has not been shipped off site from ARC's present location. ARC maintains that they must reprocess some of the powder to further remove glass from powder. Drums of powder have been accumulating since before ARC moved to present address. There are approximately 75 drums of phosphor powder stored on-site.*

*End caps have not been evaluated.*

Glass has been evaluated for TCLP at least once ( EnviroMatrix, Inc. 2/5/01).

6. What quantities of lamps are received? (provide the number or weight of the lamps received, if possible)

*ARC receives approximately 25,000 bulbs per month and shipments are accepted daily.*

7. What percentage of the lamps received are recycled?

*One hundred percent of lamps received are recycled. Some lamps are harder to process. These are set aside until enough are collected to do all at once (example: Shatter-shield type lamps). ARC contracts temporary drivers to pick up scheduled shipments when necessary.*

8. Are other mercury containing items accepted? If so, list the other items and include quantities accepted and include a description of the recycling process.

*Batteries - consolidated and shipped to R.H. Welf & Associates where they are recycled.*

*Computers, CRTs, keyboards - consolidated and shipped to Great Lakes Electronics Recycling in Detroit, MI.*

*Mercury switches - consolidated and either sent to Mercury Waste Solution's retort operation in Union Grove or to Chemtron to be brokered for unknown use/disposal.*

9. Are other materials accepted for recycling? If so, list those items and include quantities accepted.

*ARC previously accepted and recycled ballasts. They no longer offer this service.*

10. How long has the fluorescent lamp recycler been in operation?

*ARC has been at this address since February 1999, but didn't began operations until May 1999.*

11. Have samples been collected and analyzed? Yes or No, if yes please describe how the samples were collected, prepared and analyzed. Include a copy of available analytical results.

*Glass has been tested for TCLP on February 5, 2001 by EnviroMatrix, Inc. Results are attached.*

*Phosphor powder has not been analyzed.*

**OTHER:**

ARC submitted a Pollution Prevention loan application in 1995. ARC was approved in 1995, to install and operate light ballast and lamp recycling systems that will significantly reduce the hazardous and toxic pollutants listed above that would otherwise be released into the environment. ARC received this loan in August of 1997 and it is still in payment.

ARC notified as a SQG on May 3, 1999. Reported characteristic wastes on site are: D001, D005, D006, D008, D009. Reported listed wastes on site are: U028 AND U151. PCBs were also reported to be managed on-site. ARC is maintaining their generator status although they claim that they are not currently generating hazardous waste.

ARC indicated that they got a verbal okay from Northeast District Office (NEDO), Division of Air Pollution Control, for their lamp crushing operation's negative air pressure system. ARC said that the emissions unit is a DeMinim unit, which means that emissions of an air pollutant from the source is limited to less than ten pounds per day or restricts the operation of the source in a manner equivalent to an emission limit of less than ten pounds per day. ARC said they worked with Dennis Bush and Nancy Meli, in NEDO regarding this, but ARC does not have documentation to support this claim. ARC has not changed filters in their negative air pressure system since they have been at this address.

There is a blue tarp hanging in the northeast corner of the facility where ten drums of unknown solvent are stored. These drums have not been evaluated, but ARC maintains that some of them contain a kerosene based solvent that was used for the ballast recycling system parts washer.

Over 300 drums of PCB ballasts were stacked on pallets four and five high, and five deep. Drums are in deteriorating condition. All have been brought to this site from former facility. At this time, ARC does not have plans together for disposal of this material.



State of Ohio Environmental Protection Agency

## STREET ADDRESS:

Lazarus Government Center  
122 S. Front Street  
Columbus, OH 43215-1099

TELE: (614) 644-3020 FAX: (614) 644-2329

## MAILING ADDRESS:

P.O. Box 1049  
Columbus, OH 43216-1049

April 27, 2001

Kenneth Zolnierczyk  
U.S. EPA Region V, DT-8J  
77 West Jackson Boulevard  
Chicago, IL 60604-3507

Dear Mr. Zolnierczyk:

This letter serves as a follow-up to my March 21, 2001, e-mail, wherein I conveyed Ohio EPA's concerns regarding American Recycling Company, Ltd.'s (ARC) storage of more than three hundred drums containing PCB and non-PCB ballasts. Also in that e-mail, I told you that I was in the process of generating a procedural follow-up letter to ARC to make them aware of Ohio EPA's concerns about their operations and to inform them that we would be notifying U.S.EPA Region 5 of ARC's PCB waste. Due to Ohio EPA's concerns with ARC's hazardous waste management, we escalated the procedural letter to a Notice of Violation (NOV) letter. The following is a summary of our PCB concerns at ARC:

A team of Ohio EPA inspectors visited ARC's facility on March 12, 2001. At our inspection, we discovered more than three hundred drums of PCB and non-PCB ballasts, stacked 4 pallets high, with no aisle space. The ballasts were supposed to be recycled using ARC's ballast recycling equipment. If you read through the attached inspection notes, you will see that ARC has been, and is still, failing to properly manage PCB waste at its former facility, 6701 Hubbard Avenue, Cleveland, Ohio. The facility representative, Drew Koler, stated that most of the more than three hundred PCB drums presently on site at ARC's W. 71<sup>st</sup> Street facility, were brought over from their former Hubbard Avenue facility. ARC moved from 6701 Hubbard Avenue, to 3203 W. 71st Street, Cleveland, Ohio in February, 1999. This is approximately the time that PCB ballasts were transferred to ARC's present facility.

I have attached our photo log from our March 12 inspection of ARC, as well as, Ohio EPA's April 19, 2001, NOV letter to ARC. ARC's facility is located at 3203 W. 71st Street, Cleveland, Ohio 44102 and its EPA identification number is: OHD000720110. The facility's representative, Drew Koler, can be reached at (216) 281-2828.

Bob Taft, Governor  
Maureen O'Connor, Lieutenant Governor  
Christopher Jones, Director

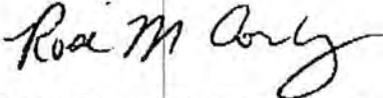


Kenneth Zolnierczyk  
U.S. EPA Region V, DT-8J  
April 27, 2001  
Page 2 of 2

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Please let me know if you need any additional information. I may be reached at (614)644-2667 or via e-mail at [rose.connelly@epa.state.oh.us](mailto:rose.connelly@epa.state.oh.us).

Sincerely,



Rose Connelly, Environmental Specialist II  
Information Technologies & Technical Support Section  
Division of Hazardous Waste Management

cc: Jeff Mayhugh, Supervisor, IT&TS, DHWM  
Debbie Sharpe, IT&TS, DHWM  
Randy Ohlemacher, CAS, DHWM  
Sherry Slone, NEDO, DHWM

Attachments: 3/12/01 Photo Log: American Recycling Company inspection  
4/19/01 NOV letter from Sherry Slone to American Recycling Co., Ltd.

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AMERICAN RECYCLING  
COMPANY, LTD.

RECEIVED  
MAY 15 2001  
OHIO EPA NEDO

P.O. Box #27486 • Cleveland, OH 44127-0486  
Phone: (216) 281-9200 • FAX (216) 281-5505

May 15, 2001

Ms. Sheryl K. Slone  
Ohio EPA – Northeast District Office  
Division of Hazardous Waste Management  
2110 E. Aurora Road  
Twinsburg, OH 44087-1969

Certified Mail

Dear Ms. Slone:

Thank you for agreeing to come back on March 12<sup>th</sup> to meet with Dan Bickley and me. As I explained when Rose Connelly, Randy Ohlemacher and you showed up unannounced on March 8<sup>th</sup>, we were short handed in the lamp recycling plant that day and would have had to stop recycling because I wanted Dan Bickley, the new ARC Supervisor to attend our meeting. Dan's job responsibilities at ARC include some key environmental, health and safety functions.

Stopping lamp recycling for the unannounced meeting would have created an unwarranted financial burden on American Recycling Company, Ltd. (ARC).

**We strongly disagree with the alleged discovery of several significant violations of Ohio's hazardous waste regulations and laws at ARC.**

Before we address the two alleged violations in your letter dated 4/19/01, we would like to go over some important and significant background information.

We discussed and/or met with key Ohio EPA (OEPA) officials before and after ARC was formed in October 1994 to go over in detail the specific Ohio EPA rules and laws that apply to fluorescent/high intensity discharge lamp and ballast recyclers in Ohio.

Our first meeting at the OEPA to discuss the lamp/ballast recycling rules was on November 30<sup>th</sup>, 1994 at the Columbus Office with Jim Braun-Division of Air Pollution Control, Craig Butler-Division of Hazardous Waste Management/Office of Pollution Prevention, and Art Coleman-Division of Solid & Hazardous Waste Management (See enclosed ARC letter dated December 6, 1994).

We were also given some important OEPA produced and written documents including the OEPA September 1994 Fact Sheet The Management of Fluorescent Lamps and PCB Ballasts in Ohio. Also, Art Coleman faxed me a letter on December 3, 1999 that he wrote to Recyclights, Inc. on September 16, 1996 explaining some key provisions of Ohio's mercury lamp recycling rules that also apply to ARC (See both documents enclosed).



Ms. Sheryl Slone, Ohio EPA – Northeast District Office  
May 15, 2001  
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As you know, we also submitted and received approval on our OEPA/Ohio Department of Development Pollution Prevention (P2) Loan Technical Review Worksheet (TRW) in August 1995 for our new lamp recycling system and upgrades to our light ballast recycling system. We received the P2 loan and completed installation and limited operation of our lamp/ballast recycling systems the second half of 1997.

The important purpose of all the discussions, meetings and pollution prevention equipment installation and operation activity was to firmly establish with the complete approval of the OEPA that ARC was not a hazardous waste treatment or storage facility. At no time did the OEPA indicate that they considered ARC planned operating activities to require air, hazardous waste or PCB permits.

This background information is critically important because it is the foundation ARC was established on and has significant impact on our initial and current business and operating plans.

With this important background information in place, lets review the alleged ARC violations:

1. The section What are your responsibilities if your fluorescent lamps are hazardous waste? on page 2 of the OEPA Fact Sheet: The Management of Fluorescent Lamps and PCB Ballasts in Ohio states in part: "In Ohio, used and off-specification (ie. defective) lamps exhibiting a hazardous characteristic are considered characteristic by-products. Unused lamps are considered commercial chemical products. According to OAC Rule 3745-51-02[C][3], characteristic by-products and commercial chemical products destined for reclamation are not considered waste, and do not require compliance with Ohio's hazardous waste rules."

Art Coleman also confirms the above referenced OEPA rule in his letter to Recyclights, Inc. dated September 16, 1996.

You acknowledge in your letter and checklist report that ARC recycles (i.e., reclaims) 100% of the lamps we receive.

Furthermore, ARC sends our recycled lamp glass and screener sand fines to companies that use this material as a beneficial feedstock to make other products which you also acknowledged in your letter.

After a further review of all the recycled lamp glass and screener sand fines sent off site by ARC for beneficial reuse from 1978 (1978 was the first full year of lamp recycling at ARC, the majority of 1997 was spent installing, checking the operation and fine tuning the new lamp recycling system) up to and including February 2001 shows a total of over 517,000 lb./258 tons of lamp glass/sand sent off site (See enclosed ARC, Container Recycling Alliance and Strategic Materials documentation).

Ms. Sheryl Slone, Ohio EPA – Northeast District Office  
May 15, 2001  
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The 74 drums of the ARC intermediate lamp glass/phosphor powder product at an average weight of 660 pounds per drum total 48,840 pounds. This represents only 9.5% (i.e., 48,840 lb. divided by 517,000 lb.) of the total lamp glass/sand sent offsite for beneficial reuse by ARC. In other words, over 90% of the ARC lamp recycling glass/sand is beneficially reused in other products.

We never considered the 74 drums of the ARC intermediate lamp glass/phosphor powder to be a waste. The one drum of this intermediate product we sent off-site on March 18, 1998 to a mercury reclaim facility was part of an exchange for some light ballasts drums the mercury reclaim facility wanted us to recycle for a Cleveland area project they completed. We do not consider our lamp glass/phosphor powder intermediate product to be a D009 hazardous waste. We were informed by the mercury reclaim facility that the state of Wisconsin EPA where their mercury reclaim facility is located considers the ARC intermediate product to be a D009 waste and we must manifest our material to them this way. The mercury reclaim facility completed the State of Wisconsin Uniform Hazardous Waste Manifest with the D009 waste code for ARC.

As I discussed with Rose, Randy and you during your visit at ARC, we are reprocessing the ARC recycled lamp glass/phosphor powder mixture through our lamp recycling system because we have made some system improvements in December 2000 that allow us to reclaim larger pieces of lamp glass that we showed you in this intermediate product. As we also discussed with you, ARC plans on reprocessing this intermediate product material based on a schedule reflecting our priority to recycle incoming cash generating customer lamps first.

2. As we explained the day of your visit, the primary light ballast metal parts washing material ARC used in the past was a safety solvent from Hukill Chemical called Solvent 140-66 (Huvasol 140). Hukill indicated that this solvent would not be considered an ignitable waste because the flash point was greater than 140 degrees F and did not contain any other RCRA regulated constituents. The material safety data sheet (MSDS) for Huvasol 140 shows a flash point of 142.0 – 150.0 degrees F. I did not have the Huvasol 140 MSDS (enclosed) readily available for your review during your visit because we no longer use this solvent since we no longer recycle light ballasts. As we further explained, the MSDS sheet and flash point you refer to in your report was for some pure K-1 type kerosene that our employees use in the plant for portable style heaters during cold weather. Some of the drums you saw may contain the pure K-1 heating kerosene.

We did add some kerosene to our large ballast metals parts washing tank to make up for some Huvasol 140 solvent drag out loss on cleaned parts.

Ms. Sheryl Slone, Ohio EPA – Northeast District Office  
May 15, 2001  
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The ballast metal parts wash tank solution was periodically screened for PCBs at our former location using a Dexsil Clor-N-Oil 50 test kit (USEPA SW-846 Method 9079). All test kit screen results showed PCB levels were below 50 ppm for the wash tank solution.

In summary, based on our knowledge of the ARC former light ballast parts washing process we do not believe this mixture of Huvasol 140, kerosene, and residual ballast parts oil is a hazardous waste.

We will however have the used parts wash mixture tested for flash point and PCBs as back up to our knowledge of this material. We will notify you five business days in advance of the sampling date.

If the above testing shows the parts wash mixture is a hazardous waste, we will make arrangements with an appropriate disposal facility (e.g., Chemical Solvents) to have the waste removed from ARC based on available cash and other priority ARC expenses.

**We have the following responses to your concerns with the ARC recycling operation:**

We had a rather lengthy discussion of ARC plans to make some commercial products from the recycled lamp glass, glass fines, and phosphor powder. We showed you some samples of the art glass and synthetic-Italian marble that some other companies made for us with 100% or a very high percentage of ARC recycled lamp glass. We explained that this was an important part of ARC's continued pollution prevention commitment and to control our recycled lamp product variable costs.

We also discussed some other products we were evaluating that could be made using our glass fines and phosphor powder such as cement building blocks and floor/wall tiles. Calcium, a major component of our phosphor powder product is also a major ingredient in cement-based products.

Silica (sand) is a major component of our glass fines product and is also a major ingredient in ceramic-glass floor/wall tiles.

I think Dan Bickley made a comment that he was not sure if the ARC sand fines would be a needed ingredient for cement-based building blocks. Since Dan is new to ARC, I remember clarifying his comments with some of the information above and indicated that we were still evaluating these potential ARC products.

Apparently you misunderstood our comments on ARC legitimate recycled lamp product plans.

Ms. Sheryl Slone, Ohio EPA – Northeast District Office  
May 15, 2001  
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Regarding the 300+ drums of PCB and non-PCB light ballasts at ARC, we again refer to the OEPA September 1994 Fact Sheet: The Management of Fluorescent Lamps and PCB Ballasts in Ohio for important information that the ARC business and operating plans were based on.

The section Management of Ballasts on page 2 states in part “In specific situations, ballasts are exempt from TSCA requirements. For instance, TSCA does not regulate the disposal of non-leaking, Small Capacitors.”

The light ballasts that ARC accepted all contained small capacitors.

It was our understanding from some discussions with EPA officials that it was acceptable to determine if a light ballast capacitor was leaking PCBs by a visual inspection of the outside metal casing of the light ballast. If the outside metal casing showed no visible signs of a black oily or tar-like substance then this was adequate to determine the PCB small capacitor inside the ballasts was non-leaking. There was no requirement to open up the light ballast and inspect or test the internal small capacitor or potting material.

It was our experience from visually inspecting the outside of light ballasts that very few had leaking small capacitors.

Based on the OEPA Fact Sheet referenced above, our discussions with EPA officials, and our experience with recycling light ballasts it was determined that ARC was not required to obtain a TSCA PCB facility operating or storage permit.

As I indicated during your visit, we do have plans to start removing small quantities at a time of the PCB light ballast drums to an EPA approved facility as soon as the ARC financial situation improves.

We will confirm with our landlord that the floor drains you noticed in the area of our phosphor powder product are not functional.

Please make the following correction to item # 8 under the Recycling Process section of the Fluorescent Lamp Recycler Site Visits checklist:

Chemtron is a broker that has sent ARC some mercury containing items for recycling.

ARC has not shipped Chemtron any mercury containing items.

ARC has sent some mercury containing items to the Salesco Systems Phoenix, AZ retort operation.

ARC sent one drum of our mercury containing phosphor powder/lamp glass mixture intermediate product to the Mercury Waste Solutions retort operation in Union Grove, WI.

**We have the following summary comments and concerns:**

1. We appreciate the OEPA's initial encouragement and support of ARC's pollution prevention plans and activities starting in 1994 when ARC was established. The pollution prevention loan ARC received in 1997 was put to very good use with ARC mercury containing lamp recycling/reclaiming activities that have so far diverted 258+ tons of lamp glass/glass fines, and metal end caps from Ohio's and other states municipal/sanitary landfills or incinerators. This represents a lamp component recycling/reclamation rate of greater than 90%. From our comments above you know that we also have plans for ARC to manufacture some commercial products from other lamp recycling products (i.e., lamp glass, lamp glass/phosphor powder mixture and phosphor powder) that will further increase our reclamation rate and improve control by internalizing ARC recycling costs and profits. Our past light ballast recycling activities have also diverted many tons of PCB and non-PCB wastes from municipal/sanitary landfills or incinerators. The recycled light ballast metal components (i.e., aluminum, copper and steel) were beneficially reclaimed.

We do have some serious concerns about the OEPA's arbitrary reclassification of some of our legitimate lamp recycling activities as a violation of the OEPA's hazardous waste rules (See alleged violation No. 1).

2. We understand that the OEPA is considering adopting the U.S. EPA Universal Waste Lamp Rule (See enclosed OEPA January 2001 Fact Sheet: How the Universal Waste Rule Will Affect Facilities Managing Fluorescent Lamps) and this was the reason given for your visit to ARC. We are encouraged that the OEPA may adopt this important Lamp UWR that will benefit all Ohio lamp recyclers. We are concerned whether the OEPA will adequately support the Lamp UWR and specifically lamp recycling with important educational outreach, training, and inspection activity and funding. It is very important that the OEPA continues to support ARC and other Ohio lamp recyclers via expanding lamp generator inspections and education programs. Further state of Ohio funding and technical support is also necessary to support lamp recycling product development and scrap commodities markets. ARC has not been able to locate a lamp glass broker/recycler in Ohio that will accept our material at a cost effective price. We are currently paying over \$20.00 per ton to ship our lamp glass out of state to an Indiana glass broker/recycler. The primary reason that ARC stopped recycling light ballasts was because of the depressed or soft secondary metal commodity markets.

Ms. Sheryl Slone, Ohio EPA – Northeast District Office

May 15, 2001

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If you need further clarification or have any questions please call me at 216-281-9200.

Sincerely,

A handwritten signature in black ink that reads "Drew Koler". The signature is fluid and cursive, with the first name "Drew" being larger and more prominent than the last name "Koler".

Drew Koler  
Managing Member  
American Recycling Co., Ltd. (ARC)

Cc: Craig Butler, OEPA, Central Office  
Arthur "Art" Coleman, Jr., OEPA, Central Office  
Gerald Meyer, Growth Capital Corp.  
Dan Bickley, ARC  
Tom Weber, ARC

Enclosures

**ARC** AMERICAN RECYCLING  
COMPANY, LTD.

7471 Tyler Boulevard • Mentor, Ohio 44060  
(216) 946-2221 • FAX (216) 946-0045

December 6, 1994

Mr. Craig W. Butler  
Ohio EPA  
Division of Hazardous Waste Management  
P. O. Box 1049  
1800 Watermark Drive  
Columbus, OH 43266-0149

Dear Craig:

It was a pleasure to finally meet you at the OEPA Columbus office on November 30th after discussing the Ohio Green Lights Program and fluorescent lighting ballast/ lamp disposal and recycling over the phone the past couple of months. Colleen and I were very impressed with the knowledge and support that you, Jim Braun, and Art Coleman provided at the meeting. We want to reemphasize that we share your concerns and will continue to team with the Ohio EPA to provide environmentally safe and cost effective fluorescent ballast/ lamp disposal and recycling services for our customers.

Thanks again for following up on the permit status of USA Lights ( a potential ally of ours for lamp recycling ) and providing information on a new USEPA proposal that may regulate PCB ballast "potting" compound.

Sincerely,



Drew R. Koler

cc: Jim Braun, OEPA-DAPC  
Arthur L. Coleman, OEPA-DSHWM  
Colleen M. Day, ARC, Ltd.



State of Ohio Environmental Protection Agency

STREET ADDRESS:

1800 WaterMark Drive  
Columbus, OH 43215-1099

TELE: (614) 644-3020 FAX: (614) 644-2329

BUILDING ADDRESS:

P.O. Box 1049  
Columbus, OH 43216-1049

September 16, 1996

Brian R. Golab, Environmental Manager  
Recyclights, Inc.  
401 West 86th Street  
Minneapolis, MN 55420-2707

Dear Mr. Golab:

Recyclights requested the Ohio EPA to review its latest mercury recycling plan (August 23, 1996). We reviewed the plan and offer the following comments.

To simplify the handling and processing of its customers' mercury-containing items, Recyclights has developed several mercury recycling categories (a to h). We previously provided Recyclights written responses on some of these categories. We clarified that Ohio does not consider mercury lamps and mercury-containing electronic devices (see our February 16, 1996 letter) hazardous wastes if a business has them reclaimed (As stated in Table 1, OAC rule 3745-51-02). Ohio evaluates mercury-containing items according to the standards in OAC Chapter 3745-51.

Since the mercury categories Recyclights selected are broad in scope, we would need information from Recyclights on each item, not just examples, regarding the type of mercury unit, and how Recyclights will manage or process it, to determine whether it is exempt from or subject to Ohio's hazardous waste requirements. Therefore, this response is specific to those items specifically referenced in Recyclights letter. We feel this clarification is necessary to allow Recyclights to adopt its mercury handling policy accordingly.

- **Thermostats, glass and metal switches, relays, and ampules (Electric Devices).** We consider glass and metal switches, relays and ampules (from electric devices) either by-products or commercial products, depending on whether they are unused, off-spec, or used. According to Table 1 in OAC 3745-51-02, by-products exhibiting a hazardous waste characteristic or commercial (chemical) products are not wastes if Recyclights has them reclaimed. Currently, the same position applies to mercury thermostats. But once Ohio's adopts the Universal Waste Rule(UWR), Recyclights must manage the thermostats under Ohio's UWR standards. If Recyclights intends to dispose of any of these items, Recyclights must characterize them to determine whether they are hazardous wastes. If these items are not hazardous wastes, Ohio does not regulate them under its hazardous waste standards.
- **Thermometers, gauges, manometers, barometers, sphygmomanometers and haunmeters (Mercury Column Devices).** These are either commercial products or by-products. If Recyclights has them reclaimed, Ohio does not consider them wastes. Recyclights must characterize these items if they intend to dispose of them.
- **Dialyzer and/or bougie tubes (Scientific/Medical Testing Devices).** Ohio considers these spent materials. They are wastes if Recyclights reclaims them. [See "Batteries" below].
- **Dental Amalgams.** We classify dental amalgams as scrap metal. If Recyclights reclaims dental amalgam, we do not consider the amalgam subject to our hazardous waste requirements.

Brian R. Golab, Environmental Manager  
Recyclights, Inc.  
September 16, 1996  
Page 2

- **Batteries (flashlight type).** Currently, if Recyclights stores batteries at its facility that are hazardous wastes before they recycle them, they must comply with the requirements in OAC rule 3745-51-06 (C)(1). Basically, this means that Recyclights must obtain a hazardous waste storage permit. If, on the other hand, Recyclights recycles the batteries without storing them before recycling, it will not need a hazardous waste permit but must comply with the requirements in OAC rule 3745-51-06 (C)(2). Basically, these are notification and manifest processing requirements. (See attachment). Ohio will require Recyclights to manage these types of batteries under its UWR requirements once Ohio adopts them.
- **Bullets (*Miscellaneous Items Contaminated with Mercury*).** Based on Recyclights description, we consider the bullet castings scrap metal. [see "Dental Amalgam"].
- **Mercury Laden Powder (from other lamp recyclers).** Ohio considers this material to be either a by-product of commercial (chemical) product.
- **File, wood, metal, sheetrock, soil, rags, and PPE (*Mercury Debris*).** We need more information on the source, types, and composition of these items. Some of these items could be contaminated with listed hazardous wastes. Some may be spent materials, not by-products or commercial products. We suggest that Recyclights carefully evaluate these items before making a decision whether or not to accept and recycle them. If necessary, contact us for assistance.

Again, if you need additional assistance, contact either me at (614)644-2934 or Jeff Mayhugh at (614)644-2950.

Sincerely,

*Arthur L. Coleman, Jr.*

Arthur L. Coleman, Jr.  
Technical Support Unit  
Division of Hazardous Waste Management

ep61ALC.10.g.golab

Attachment

cc: Wendy Miller, TSU, DHWM  
Lundy Adelsberger, DHWM, CDO

American Recycling Company  
3203 West 71<sup>st</sup> St., Cleveland  
OHD000720110  
March 12, 2001

Sony Digital Camera  
photos taken by Sherry Slone



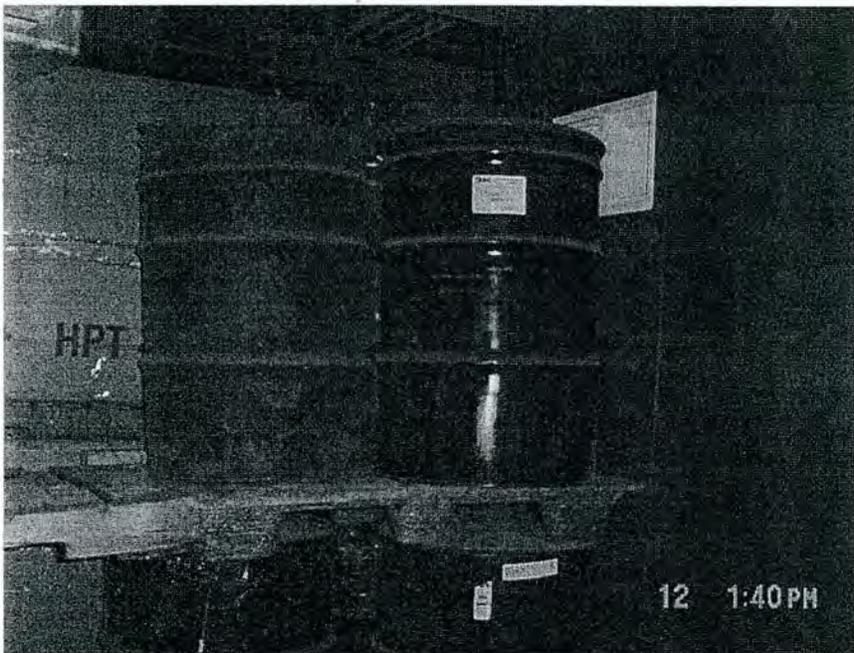
#02  
Drums of phosphor powder  
Stored along the west wall of the  
warehouse



#03  
Drums of phosphor powder  
Gaylords of capacitors  
Stored along west side of warehouse



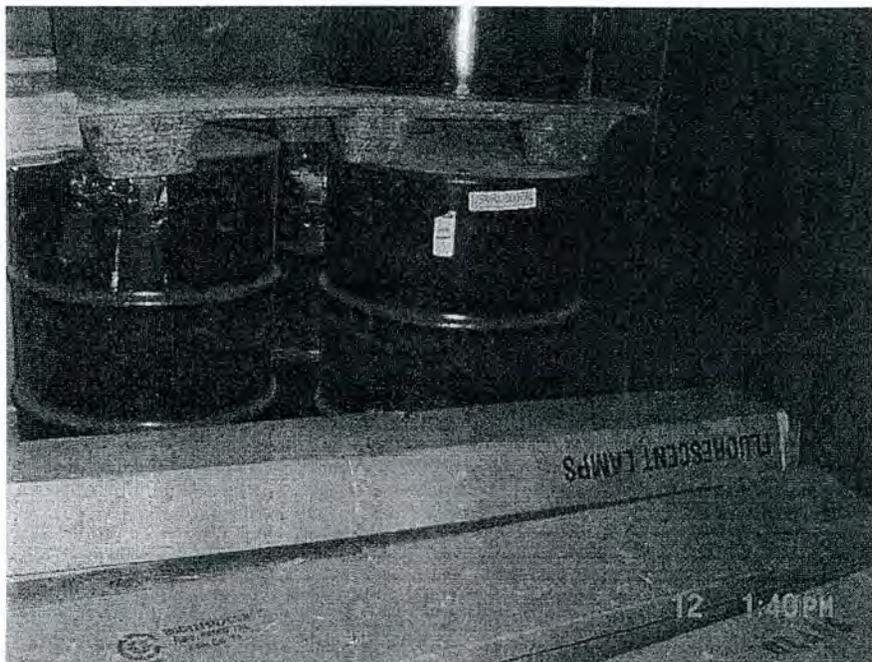
#04  
Phosphor powder  
West side of warehouse



#05  
Used solvent from previous  
facility  
East side of warehouse



#06  
Used solvent from  
previous facility



#07  
'PCB Ballast'



#08  
'Non PCB debris'

#9  
Southeast corner of process room  
'PCB' ballasts





#10  
Drums of PCB wastes in southeast corner of  
process room



#11  
Hazardous waste  
labels on PCB drums



#12  
Box of capacitors



State of Ohio Environmental Protection Agency  
Northeast District Office

2110 E. Aurora Road  
Twinsburg, Ohio 44087-1869

TELE (330) 425-9171 FAX (330) 487-0789

Bob Taft, Governor  
Christopher Jones, Director

June 19, 2003

RE: AMERICAN RECYCLING CO., LTD.  
OHD000720110  
CUYAHOGA COUNTY  
UNFULFILLED OBLIGATIONS

Mr. Drew Koler  
13932 Oak Brook Dr  
N Royalton, OH 44133-4614325

CERTIFIED MAIL and 1<sup>st</sup> Class

Dear Mr. Koler:

On May 7, 2003, the Ohio EPA Northeast District Office received your response to our April 21, 2003 letter. In it you indicate that you have resigned from American Recycling Company (ARC) and that we should contact Ms Julie Price, counsel for the remaining ARC members, concerning compliance with the orders. Further you indicate that you cannot afford to pay the civil penalty.

On March 12, 2003, you signed a consent order and final judgment entry (order) both on behalf of ARC and individually. Therefore you are personally liable and responsible for complying with the terms of the order. Among other things, the order required you to immediately remove and properly dispose of all hazardous waste from the facility located at 3203 W. 71st St., Cleveland, Ohio. Within 14 days of this removal you agreed to submit a detailed report of the hazardous waste removal. Also you agreed to immediately request that all original suppliers of unprocessed spent lamps at your facility properly recycle or dispose of their lamps at another facility and within 14 days of their removal submit a detailed report of the removal.

Concerning the civil penalty, you agreed to submit a monthly statement to Harry Sarvis, Manager of the Compliance Assurance Section of the Division of Hazardous Waste Management of Ohio EPA on or before the 14th of each month detailing your current employment status. If you failed to submit this statement, you were required to pay the entire civil penalty immediately.

None of the injunctive relief detailed in the order has been satisfied and no monthly statements of employment status have been submitted to Mr. Sarvis. Your failure to comply with the clear terms of the consent order may result in Ohio EPA requesting that the Ohio Attorney General's office pursue all available remedies to achieve compliance with the order.

Should you have questions concerning this matter, you can contact me at (330) 963-1226.

Sincerely,

Sheryl K. Stone, P.E.  
Environmental Engineer  
Division of Hazardous Waste Management

SKS:ddw

cc: Joe Cala, Advance Handling  
Julie Price, ARC counsel

ec: Ike Wilder/Jeanette Smith, DHWM, CO  
Harry Sarvis, DHWM, CO  
Marcus Glasgow, AGO  
Greg Poulos, AGO  
Natalie Oryshkewych

UNITED STATES POSTAL SERVICE



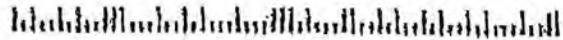
First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box.

# Ohio EPA

Northeast District Office  
2110 E. Aurora Rd.  
Twinsburg, OH 44087-1969

44087-1969



SENDER. COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature <input type="checkbox"/> Agent  <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery</p>
<p>1. Article Addressed to:</p> <p>Mr. Drew Koler  13932 Oak Brook Dr.  N. Royalton, OH 44133</p>	<p>D. Is delivery address different from field above? <input type="checkbox"/> Yes  <input checked="" type="checkbox"/> No  If YES, enter delivery address below:</p> <p style="text-align: center;"><b>RECEIVED</b>  JUN 30 2003  OHIO EPA NEDO</p> <p>3. Service Type  <input type="checkbox"/> Certified Mail    <input type="checkbox"/> Express Mail  <input type="checkbox"/> Registered        <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail        <input type="checkbox"/> C.O.D.</p>
<p>2. Article Number  (Transfer from service label)</p>	<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>7002 2410 0001 9766 8780 Slone 6-19-03</p>	
<p>PS Form 3811, August 2001</p>	<p>Domestic Return Receipt 102595-02-M-1548</p>



State of Ohio Environmental Protection Agency  
Northeast District Office

E. Aurora Road  
Columbus, Ohio 44087-1969

TELE (630) 425-8171 FAX (630) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

# FAX Transmittal Sheet

To: JEANETTE SMITH

Fax Number: \_\_\_\_\_

Subject: ARC

From: SHERRY SLONE

Date: 7/16/03

Pages to Follow: 4  
(Include Cover Sheet)

If you have any questions, call (330) 963-1200, ask for sender

Return Fax number (330)487-0769



- A. **"Approved Closure Plan"** means a closure plan that has been approved by the Director. The approved closure plan may be a closure plan approved by the Director as submitted by Defendants, or a closure plan approved by the Director after being submitted by Defendants and modified by the Director.
- B. **"Generator Closure Plan"** means a plan that meets the requirements of Ohio Adm. Code 3745-66-11(A) and (B) and 3745-66-14.
- C. **"Consent Order"** means this Consent Order and Final Judgment Entry and all appendices hereto.
- D. **"Defendants"** means American Recycling, Ltd, 3203 W. 71<sup>st</sup>, Cleveland, Ohio 44127-0486 and Drew Kohler, president of American Recycling, Ltd.
- E. **"Director"** means Ohio's Director of Environmental Protection.
- F. **"Effective Date"** means the date the Cuyahoga County Court of Common Pleas enters this Consent Order.
- G. **"Facility"** refers to the location where the alleged treatment, storage, disposal, or other placement of hazardous waste was conducted by Defendants or any one of them, which facility is located at 3203 W. 71<sup>st</sup>, Cleveland, Ohio 44127-0486, Cuyahoga County, Ohio.
- H. **"Ohio EPA"** means the Ohio Environmental Protection Agency.
- I. **"Plaintiff"** means the State of Ohio by and through the Attorney General of Ohio.

## II. JURISDICTION AND VENUE

This Court has jurisdiction over the subject matter of this action, pursuant to R.C. Chapter 3734 and the rules adopted thereunder. This Court has jurisdiction over the parties. Venue is proper in this Court. The Complaint states a claim upon which relief can be granted.

## III. PERSONS BOUND

The provisions of this Consent Order shall apply to and be binding upon Plaintiff and Defendants, their agents, officers, employees, assigns, successors in interest and any person acting in concert or participation with them who receives actual notice of this Consent Order whether by personal service or otherwise. Defendants are ordered and enjoined to provide a copy of this Consent Order to each contractor they employ to perform work itemized herein.

## IV. SATISFACTION OF LAWSUIT AND RESERVATION OF RIGHTS

1. Except as otherwise provided in this Consent Order, compliance with the terms of this Consent Order shall constitute full satisfaction of any civil liability of Defendants to Plaintiff for all claims alleged in the Complaint.

2. Nothing in this Consent Order, including the imposition of stipulated civil penalties, shall limit the authority of the State of Ohio to:

- A. Seek relief for claims or conditions not alleged in the Complaint;
- B. Seek relief for claims or conditions alleged in the

Complaint that occur after the entry of this Consent Order;

- C. Enforce this Consent Order through a contempt action or otherwise for violations of this Consent Order;
- D. Bring any action against Defendants or against any other person, under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), as amended, 42 U.S.C. §9601, et seq. and/or R.C. 3734.20 through 3734.27 to: (1) recover natural resource damages, and/or (2) order the performance of, and/or recover costs for any removal, remedial or corrective activities not conducted pursuant to the terms of this Consent Order.
- E. Take any action authorized by law against any person, including Defendants, to eliminate or mitigate conditions at the Facility that may present an imminent threat to the public health or welfare, or the environment.

#### V. INJUNCTIVE RELIEF

1. Defendants are ordered and enjoined to comply with all applicable provisions of the Ohio hazardous waste laws and rules as set forth in R.C. Chapter 3734 and Ohio Adm. Code Chapters 3745-50 through 3745-69 and Ohio Adm. Code Chapters 3745-270 through 3745-279.

**Material/Waste Removal**

2. Immediately after the effective date of this Consent Order, Defendants are ordered and enjoined to contact the original generators/suppliers of the spent unprocessed lamps stored at the Facility, located at 3203 W. 71<sup>st</sup>, Cleveland, Ohio 44127-0486, Cuyahoga County, Ohio, to the extent that such generators can be identified, and inform them that Defendants will not be processing the lamps as agreed & request that the original generators recycle or properly dispose of the lamps at another facility.

3. Fourteen (14) days after proper removal of the unprocessed lamps by original generators, Defendants will submit to Ohio EPA a lamp removal report that details the date/quantity, name of original generators and procedures associated with the lamp waste removal at the ARC facility and associated documentation.

**Generator Closure**

4. Immediately after the effective date of this Consent Order, Defendants are ordered and enjoined to remove and properly dispose of all hazardous waste from the ARC facility located at 3203 W. 71<sup>st</sup>, Cleveland, Ohio 44127-0486, Cuyahoga County, Ohio.

5. Upon proper demonstration to Ohio EPA that all hazardous waste has been properly removed and disposed of from the ARC facility, Defendants shall remove and properly dispose of all remaining wastes. Defendants shall submit a report to Ohio EPA that details the quantity and type of waste removed and the disposal facility that Defendants used.

6. Fourteen (14) days after proper removal and disposal of the hazardous waste, Defendants will submit to Ohio EPA a waste removal report that details the quantity, quality, and procedures associated with the hazardous waste removal at the ARC facility.

7. Upon removal of the hazardous waste by Defendants from the ARC facility, Ohio EPA may require Defendants to submit and implement a hazardous waste generator closure plan for the ARC facility.

8. Within thirty (30) days of notice from Ohio EPA requiring Defendants to perform generator closure at the ARC facility, Defendants will submit a plan in accordance with Ohio Adm. Code 3745-66-11(A) and (B) and 3745-66-14 for the Facility.

9. The closure plan shall, at a minimum, address all areas of the Facility where hazardous wastes were stored, treated or disposed of.

10. Following review of the Closure Plan, if Ohio EPA determines that the closure plan is deficient and provides Defendants written notice of the deficiencies in the closure plan, Defendants are ordered and enjoined to submit to Ohio EPA a revised closure plan within thirty (30) days of receipt of the notice of deficiencies.

11. Following review of the revised closure plan, if Ohio EPA determines that the revised closure plan is deficient, Ohio EPA may modify the plan and approve the revised plan as modified by Ohio EPA.

12. Immediately upon receipt of notice of approval by Ohio EPA of Defendants' closure plan, either as originally submitted, as revised, or as revised and modified, Defendants are ordered and enjoined to implement the approved closure plan in the manner and pursuant to time frames set forth in the approved generator closure plan and Ohio Adm. Code 3745-66-13.



Manager of the Compliance Assurance Section of the Division of Hazardous Waste Management of Ohio EPA on or before the 14<sup>th</sup> of every month. Upon achieving gainful employment, Defendant Drew Kohler shall begin making monthly payments as detailed in paragraph 2 section VI of this Order until the civil penalty described in paragraph 1 section VI of this Order has been satisfied. If Defendant Drew Kohler fails to submit a monthly employment statement Defendants shall immediately pay the entire civil penalty.

#### VII. COMPLIANCE WITH APPLICABLE LAWS, PERMITS AND APPROVALS

All activities undertaken by Defendants pursuant to this Consent Order shall be undertaken in accordance with the requirements of all applicable federal, state and local laws, rules, regulations and permits or other. Defendants shall submit timely applications and requests for any such permits and approvals. Where such laws appear to conflict with the other requirements of this Consent Order, Defendants are ordered and enjoined to immediately notify Ohio EPA of the potential conflict. Defendants are ordered and enjoined to include in all contracts or subcontracts entered into for work required under this Consent Order, provisions stating that such contractors or subcontractors, including their agents and employees, shall perform all activities required by such contracts or subcontracts in compliance with all applicable laws and rules. This Consent Order is not a permit issued pursuant to any federal, state or local law or rule.

#### VIII. RETENTION OF JURISDICTION

This Court shall retain jurisdiction of this action for the purpose of enforcing this Consent Order.

### **IX. COSTS**

Defendants shall pay the court costs of this action.

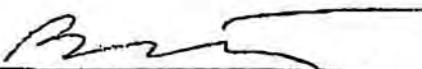
### **X. ENTRY OF CONSENT ORDER AND JUDGMENT BY CLERK**

Upon signing of this Consent Order by the Court, the clerk is directed to enter it upon the journal. Within three (3) days of entering the judgment upon the journal, the clerk is directed to serve upon all parties notice of the judgment and its date of entry upon the journal in the manner prescribed by Rule 5(B) of the Ohio Rules of Civil Procedure and note the service in the appearance docket.

### **XI. AUTHORITY TO ENTER INTO THE CONSENT ORDER**

Each signatory for a corporation represents and warrants that he/she has been duly authorized to sign this document and so bind the corporation to all terms and conditions thereof, and that he/she submits with this Consent Order an authenticated and certified resolution from the corporation establishing that he/she is so empowered.

IT IS SO ORDERED:

  
JUDGE Bridget M. McPuffery

CUYAHOGA COUNTY  
COURT OF COMMON PLEAS

Respectfully submitted,

Betty D. Montgomery  
Attorney General

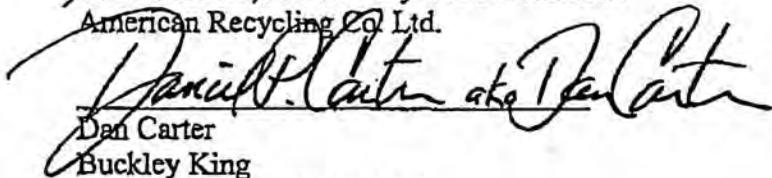
Defendants

By:

By:

  
Marcus J. Glasgow (0069454)  
Gregory Paulos (0070532)  
Assistant Attorneys General  
Environmental Enforcement Section  
30 East Broad Street, 25th Floor

  
Drew Kohler, individually and on behalf of  
American Recycling Co Ltd.

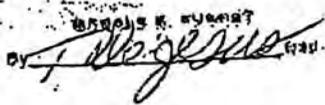
  
Dan Carter aka Dan Carter  
Dan Carter  
Buckley King  
Cleveland, Ohio 44114-1304  
Telephone: (216) 363-1400  
Facsimile: (216) 579-1020

Attorneys for Plaintiff  
State of Ohio

Attorney for Defendant

RECEIVED FOR FILING

MAR 14 2003

  
Clerk



**GERALD E. FUERST**

CLERK OF THE COURT OF COMMON PLEAS  
COURT OF APPEALS  
COUNTY OF CUYAHOGA  
1200 ONTARIO STREET  
CLEVELAND, OHIO 44113-1664

KEITH M. HURLEY  
CHIEF DEPUTY

**FACSIMILE COVER PAGE**

TO: NAME: Marcus Glasgow - Audrey Cobb  
TELEPHONE NO: 614-466-2766  
FAX NO: 614-644-1926

FROM: NAME: CLERK OF COURTS  
TELEPHONE NO: 216-443-7966  
FAX NO: 216-443-6871

NUMBER OF PAGES 19 (INCLUDING COVER SHEET)

SPECIAL INSTRUCTIONS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**IT IS SO ORDERED.**

**JUDGE BRIDGET M. McCAFFERTY**

**CUYAHOGA COUNTY  
COURT OF COMMON PLEAS**

Respectfully submitted,

Betty D. Montgomery  
Attorney General

Defendants

By:

By:

**Marcus J. Glasgow (0069454)  
Gregory Poulos (0080532)  
Assistant Attorneys General  
Environmental Enforcement Section  
30 East Broad Street, 25<sup>th</sup> Floor  
Attorneys for Plaintiff  
State of Ohio**

**Drew Kohler, individually and on behalf of  
American Recycling Co., Ltd.**







STATE OF OHIO  
OFFICE OF THE ATTORNEY GENERAL  
JIM PETRO, ATTORNEY GENERAL

Environmental Enforcement  
30 E. Broad St.  
Columbus, OH 43215-3400  
Telephone: (614) 466-2766  
Facsimile: (614) 644-1926  
www.ag.state.oh.us

April 1, 2003

VIA FACSIMILE

Clerk of Courts - Cuyahoga County  
Attn: Certified Copy Department  
1200 Ontario Street  
Cleveland, Ohio 44113-1664

RE: State of Ohio v. American Recycling Co. Ltd. - Case No. CV-02-483878

To Whom It May Concern:

We are requesting a fax copy of the Consent Order and Final Judgment Entry in the above-captioned case. Our fax number is (614) 644-1926. If you have any further questions, please feel free to contact me.

Sincerely,

Marcus J. Glasgow  
Assistant Attorney General  
Environmental Enforcement Section  
30 East Broad Street - 25<sup>th</sup> Floor  
Columbus, Ohio 43215-3400  
Telephone: (614) 466-2766  
Facsimile: (614) 644-1926  
Email: [mglasgow@ag.state.oh.us](mailto:mglasgow@ag.state.oh.us)

VOL 2896  
Pg 575-585

FILE MODE	OPTION	ADDRESS (GROUP)	TTI OHIO EPA NEDO RESULT	PAGE
108	MEMORY TX	12162815505	OK	P. 1/1

REASON FOR ERROR

E-1) HANG UP OR LINE FAIL  
E-3) NO ANSWER

E-2) BUSY  
E-4) NO FACSIMILE CONNECTION

Chapter 3745-50

Post-it* Fax Note	7671	Date	9/20/02	# of pages	1
To	DEW KOLAR	From	SHERY SLOVE		
Co./Dept.		Co.	EPA-NEDO		
Phone #		Phone #			
Fax #	216-281-5505	Fax #			

article, trade or service having commercial value, and which gives its user an opportunity to obtain a business advantage over competitors who do not know or use it.

Effective: 3/9/01  
Prior effective dates: 4/15/81, 5/22/81 (Emer.), 8/26/81 (Emer.), 12/2/81, 12/30/89  
119.032 review dates: 9/21/00, 9/21/05

3745-50-30 Trade secrets- request for confidentiality.

(A) Any record, report or other information obtained under the hazardous waste rules or Chapter 3734, of the Revised Code ~~shall~~ not be available to the public upon a showing satisfactory to Ohio EPA that all or part of such record, report or other information (other than discharge or emission data) would divulge methods or processes entitled to protection as trade secrets of such person, in which instance Ohio EPA must consider such record, report or other information or part thereof confidential and administer such record, report or other information pursuant to this rule.

(B) A request for confidentiality must be submitted to Ohio EPA simultaneously with ~~submittal~~ of the specific record, report or other information, and such request

3745-50-31 Exemptions.

(A) The director, by order, may exempt any person generating, collecting, storing, treating, disposing of, or transporting hazardous wastes in such quantities or under such circumstances that, in the determination of the director, are unlikely to adversely affect the public health or safety or the environment from any requirement to obtain a hazardous waste facility installation and operation permit or comply with the manifest system or other requirements of Chapter 3734, of the Revised Code and rules adopted thereunder. Such an exemption must be consistent with and equivalent to any regulations adopted by the administrator of the U.S. EPA under the Resource Conservation and Recovery Act of 1976 (Pub. Law 94-534, 42 U.S.C.A. 6921, as amended) except as otherwise

**American Recycling Company**  
**Photo Log - 11//29/01**  
**Confidentiality Requested**

*\* Photos taken by Sherry Slone with a Sony Digital Camera*

**Disk #1**

- #1 - Too dark
- #2 - Blank
- #3 - Too dark
- #4 - Process equipment at point where larger pieces of glass drop out into box with hand holes. Glass is then manually pushed into the hopper
- #5 - Blank
- #6 - Blank
- #7 - Blank
- #8 - Box for prefilter and activated carbon filters before exterior exhaust
- #9 - Blank
- #10 - Feed chute with drum below for powder. Powder falls out when the dust collector is back-cleaned.
- #R7 - Exhaust from process equipment goes out back wall with window. Vent is turned down slightly outside of window.

**Disk #2**

- #1 - Drop out point for end caps and glass
- #2 - Blank
- #3 - Pre-filter removed from dust collector
- #4 - Pre-filter removed from dust collector
- #5 - Back side (clean side) of pre-filter
- #6 - Filter box with door open. Granulated carbon filters for removing mercury vapor
- #7 - Close-up of drum with "sand" label in process room. Will be preparing a sampling plan. Ten drums have accumulated since October. "10/17 - 11/2/01"
- #8 - Blank
- #9 - Outside picture of system exhaust. Exhaust is located about 20 feet above the ground and over the roof of the blue and white building.
- #10 - Closer photo of the exhaust
- #11 - Close-up of the control panel
- #12 - Control panel
- #13 - Fourteen old drums of fines labeled "hazardous waste, 8/17/01, D009" in warehouse area
- #14 - Six drums of phosphor powder from the bottom of process
- #15 - Twenty-five drums of powder waiting to go back through the process
- #16 - Close-up of phosphor powder drum, labeled, "phosphor powder, 7/3/01 - 7/23/01, hazardous waste, 8/17/01, D009"
- #R8 - Nine drums of fines in process room

**Disk #1**



#1



#3



#4



#8



#10

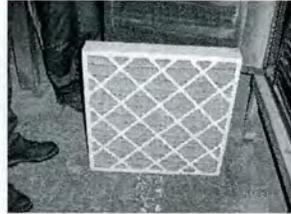


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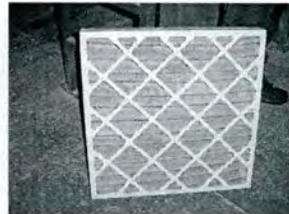
## Disk #2



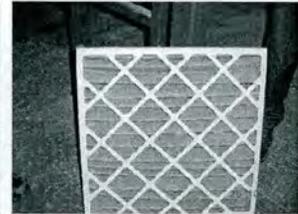
#1



#3



#4



#5



#6



#7



#9



#10



#11



#12



#13



#14



#15



#16



#18

CONF FILE



State of Ohio Environmental Protection Agency

F91

STREET ADDRESS:

Lazarus Government Center  
122 S. Front Street  
Columbus, OH 43215-1099

TELE: (614) 644-3020 FAX: (614) 644-2329

MAILING ADDRESS:

P.O. Box 1049  
Columbus, OH 43216-1049

HAZARDOUS WASTE ENFORCEMENT COMMITTEE  
CASE ASSIGNMENT

DATE: 6-13-01

Company Name: American Recycling Co, Ltd.

U.S. EPA ID#: DHD 000 720110

Location: Cleveland

County: Cuyahoga

District: NEDO

Date Received Central Office: \_\_\_\_\_

Assigned To:

Attorney: Anderson Date Rec'd: \_\_\_\_\_

CAS Staff: J. Smith Date Rec'd: \_\_\_\_\_

Inspector: Stone

Sarvis Rec'd: \_\_\_\_\_  
Neumann Rec'd: \_\_\_\_\_

HWEC Date: 7/6/01

Date of Inspection: 3/12/01

Recommendation: \_\_\_\_\_

Date Final Action Due: \_\_\_\_\_

Priority:      SNC                  SV

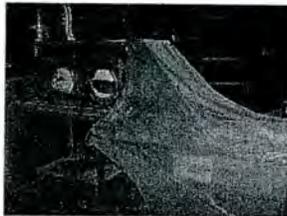
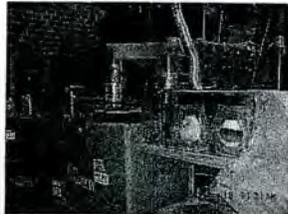
RECEIVED  
JUN 15 2001  
OHIO EPA NEDO

**American Recycling Company**  
**Photo Log - 9/18/01**  
**Confidentiality Requested**

\* Photos taken by Sherry Slone with a Sony Digital Camera

**Diskette #2**

- #1 - Process equipment, glass and metal drop-off at the left into a box, powder drops at the center into a drum
- #2 - Process equipment, glass and metal drop-off point
- #3 - Corrugated box for metal end caps, container with vertical holes for glass sand
- #4 - Container for fines/sand
- #5 - Process equipment
- #6 - Feed chute coming down in the center
- #33 - Loading platform of processing equipment



**CONFIDENTIAL LAW ENFORCEMENT RECORD  
ENFORCEMENT REFERRAL  
INVOLVEMENT WITH OTHER DIVISIONS**

Facility/Entity: American Recycling Company, LTD, Cleveland, Cuyahoga County

**(A)** Have you notified the following divisions that DHWM is considering enforcement action?  
(not applicable for division initiating request)

	Y/N	
DAPC*	Y	Person Contacted: Jim Veres
DSW	Y	Person Contacted: Dennis Lee
DSIWM*	Y	Person Contacted: Lynn Sowers
DERR	Y	Person Contacted: Rod Beals
SIS	Y	Person Contacted: Ron Fodo
DDAGW	Y	Person Contacted: Scott Williams
DHWM	NA	Person Contacted

\* The Division preparing this referral should rely on DAPC and DSIWM respectively to contact Air Locals and Approved Health Departments as needed.

**(B)** Which of the following Divisions (other than the one originating this action) have identified violations related to the Entity/Facility?

DAPC \_\_\_\_\_ DSW \_\_\_\_\_ DSIWM \_\_\_\_\_ SIS \_\_\_\_\_  
DDAGW \_\_\_\_\_ DHWM \_\_\_\_\_ DERR \_\_\_\_\_

**(C)** If noted in (B) above, briefly describe the violations and the current status of the violations (attach additional sheets as necessary).

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**(D)** Which of the following divisions, if any, have taken or are considering enforcement action against the entity/facility?

DAPC \_\_\_\_\_ DSW \_\_\_\_\_ DSIWM \_\_\_\_\_ SIS \_\_\_\_\_  
DDAGW \_\_\_\_\_ DHWM \_\_\_\_\_ DERR \_\_\_\_\_

**(E)** If noted in (D) above, briefly describe the current status of the enforcement action.

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**(F)** Which divisions should be considered as part of a joint enforcement action?

DAPC \_\_\_\_\_ DSW \_\_\_\_\_ DSIWM \_\_\_\_\_ SIS \_\_\_\_\_  
DDAGW \_\_\_\_\_ DHWM \_\_\_\_\_ DERR \_\_\_\_\_

**Enforcement Coordinators:**

DSW=Dennis Lee	DHWM=Marlene Kinney	DSIWM=Lynn Sowers	SIS=Ron Fodo
DAPC=Dennis Bush	DDAGW=Scott Williams	DERR=Rod Beals	

**\*\*\*PRIVILEGED AND CONFIDENTIAL COMMUNICATION\*\*\*  
\*\*\*ENFORCEMENT INVESTIGATORY DOCUMENT\*\*\***

**ENFORCEMENT REFERRAL  
DIVISION OF HAZARDOUS WASTE MANAGEMENT**

**\*\*\*PRIVILEGED AND CONFIDENTIAL COMMUNICATION\*\*\*  
\*\*\*ENFORCEMENT INVESTIGATORY DOCUMENT\*\*\***

*This document has been prepared to assist in the preparation and litigation of an enforcement action and is therefore subject to a number of nondisclosure doctrines.*

**TO:** *Harry Sarvis, Enforcement Coordinator*

**FROM:** *Sherry Slone, DHWM, NEDO*

**DATE:** *May 25, 2001*

\*\*\*\*\*

**1. Responsible Party(ies)**

a. *Company Name: American Recycling Company, Ltd.*

*Individual(s) Name: Drew Koler, managing member*

b. *DBA's or previous names:*

c. *Address: 3203 W. 71<sup>st</sup> St., Cleveland 44127-0486*

*County: Cuyahoga*

d. *Contact Person(s): Drew Koler, PO Box 27486, Cleveland, OH 44127-0486*

e. *Telephone Number: 216-281-2828 or 216-281-9200*

**2. Parent Company (if applicable) - na**

**3. Property Owner(s) (If Known)**

**\*\*\*PRIVILEGED AND CONFIDENTIAL COMMUNICATION\*\*\*  
\*\*\*ENFORCEMENT INVESTIGATORY DOCUMENT\*\*\***

- a. Name: Advance Handling and Storage, Inc.
- b. Address: 3203 W. 71<sup>st</sup> St., Cleveland, Ohio 44102
- c. Telephone Number:   ?
- d. Date of Purchase:   ?
- e. Source of Information: Drew Koler

**4. Regulatory Status (check appropriate lines)**

<u>      </u>	TSD Facility (Permitted)	<u>      </u>	Generator
<u>  x  </u>	TSD Activity (Unpermitted)	<u>  x  </u>	SQG *
<u>      </u>	Transporter	<u>      </u>	CESQG
<u>  x  </u>	Recycler or Reclaimer		

\* notified as SQG in 5/99

- a. Is facility currently operating/active?   X   yes     No\*

\* Explanation: \_\_\_\_\_

**5. Permit and/or I.D. Number: OHD000720110**

**6. Types of Waste(s) Generated or Managed and Quantities and Types of Hazardous Waste Management Units:**

Illegally storing approximately 74 drums of mercury contaminated phosphor powder. Approximately one drum per month of this material is currently being generated.

**7. Violation(s) Description**

- a. Identify Location of Violating Facility (if different than Number 1 above):

Same

- b. Location of violation(s): attach facility diagram identifying location of unpermitted units. West side of warehouse (See attachment #1.)

**\*\*\*PRIVILEGED AND CONFIDENTIAL COMMUNICATION\*\*\***  
**\*\*\*ENFORCEMENT INVESTIGATORY DOCUMENT\*\*\***

- c. Violation(s) cited (list statutory and regulatory citation and provide brief description (i.e., OAC rule 3745-52-33 Placarding):

Storage of Hazardous Waste at an Unpermitted Facility, ORC 3734.02(F)

Transporting a Hazardous Waste to an Unpermitted Facility, ORC 3734.02(F)

Waste Evaluation, OAC3745-52-11

- d. Provide brief narrative of violation(s) noted above (how long or how often its occurred) and identify evidence to document each violation:

Illegal storage of hazardous waste has occurred at this facility since moved there in February 1999. Appears accumulation of mercury contaminated phosphor powder has been ongoing for about 6 years. Approximately 50 drums of this waste was illegally transported from ARC's previous facility to the current one in February 1999. Approximately 10 unevaluated drums of waste solvent were stored in the warehouse. It is unknown how long these have been there.

8. **Statement as to actual or potential environmental and/or health effects of violation(s):**

Potential for containers to lose contents while being stored.

9. **Identify any economic benefits realized or potentially realized because of violation(s), explain:**

ARC has realized the economic benefit of not disposing of these 74 drums for about 6 years and the 10 drums for an unknown amount of time. Also ARC has realized an economic advantage of not complying with all of the storage facility requirements including permitting, personnel training, inspections, operating record, financial assurances, inspections, and etc.

10. **Identify any aggravating circumstances, entity recalcitrance or indifference toward the violation(s) or others [What measures has the facility taken since violations were originally cited to correct them?]:**

Upon our first visit to the site, the business owner was not cooperative and did not allow us to tour the site. He said he didn't have time to meet with us that day and wanted us to return at a scheduled time. He was more cooperative on our

**\*\*\*PRIVILEGED AND CONFIDENTIAL COMMUNICATION\*\*\***  
**\*\*\*ENFORCEMENT INVESTIGATORY DOCUMENT\*\*\***

second scheduled visit after the AGO had a phone conversation with him.

We have since found that **many** generators send their lamps to ARC expecting that the lamps are legitimately and totally recycled.

- 11. Measures to remedy the violation(s) (e.g., what does the facility need to do to correct the remaining outstanding violations):**

ARC must immediately arrange for the proper transportation and treatment or disposal of the mercury contaminated phosphor powder. ARC must immediately evaluate its waste solvent and properly dispose of it. Also ARC must explain how the phosphor powder will be managed as it continues to be generated.

- 12. Provide brief narrative of past or pending enforcement actions already taken against entity for previous violation(s) (including letters, telephone calls, meetings, etc.). Include a discussion on any repeat violations:**

No previous enforcement actions.

- 13. Provide summary of known strengths or weaknesses of case, defenses or claims to be raised by entity, extenuating or mitigating circumstances:**

Entity will probably claim that somehow the mercury contaminated phosphor powder can be reused. It appears that ARC has been unable to come up with a way to reuse it though for the last six years.

- 14. Identify areas of case in need of further development, interpretation and status of same:**

None.

- 15. Chronology of Events (site inspections, letter, meetings, telephone calls, etc.) [Identify documents and attach copies]:**

(See attachment #2.)

March 8, 2001 - Rose Connelly, Randy Ohlemacher and Sherry Slone visited the site. This was to be an information gathering visit about lamp recycling facilities lead by the Technical Support Unit. Mr. Koler was not receptive to meeting with

**\*\*\*PRIVILEGED AND CONFIDENTIAL COMMUNICATION\*\*\*  
\*\*\*ENFORCEMENT INVESTIGATORY DOCUMENT\*\*\***

us or giving us a site tour. We agreed to come back the following Monday or Tuesday.

March 12, 2001 - Site visit by Rose Connelly, Randy Ohlemacher and Sherry Slone. Photographs taken. Significant violations noted.

March 14, 2001 - File notes regarding 3/12/01 site visit.

April 4, 2001 - Decision was made for Sherry Slone at NEDO to take lead rather than Rose Connelly from CO since referral was anticipated.

April 19, 2001 - NOV sent to ARC

May 15, 2001 - ARC response to NOV

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**16. Index of Physical Evidence**

a. Photographs [for photographs list number of photos, photographer, date of photos, subject matter and attach duplicates or originals]:

(See attachment #3.)

b. Information on Sampling Conducted:  
NA

**17. Potential witness list (name, address and phone number of person(s) with first hand knowledge related to the violation(s). Indicate if confidentiality requested:**

Rose Connelly - CO, DHWM - 614-644-2667  
Randy Ohlemacher - CO, DHWM - 614-644-2971  
Sherry Slone - NEDO, DHWM - 330-963-1226

**18. Identify complaints from the public against the facility or person(s), if any, and any other known citizen or political interest:**

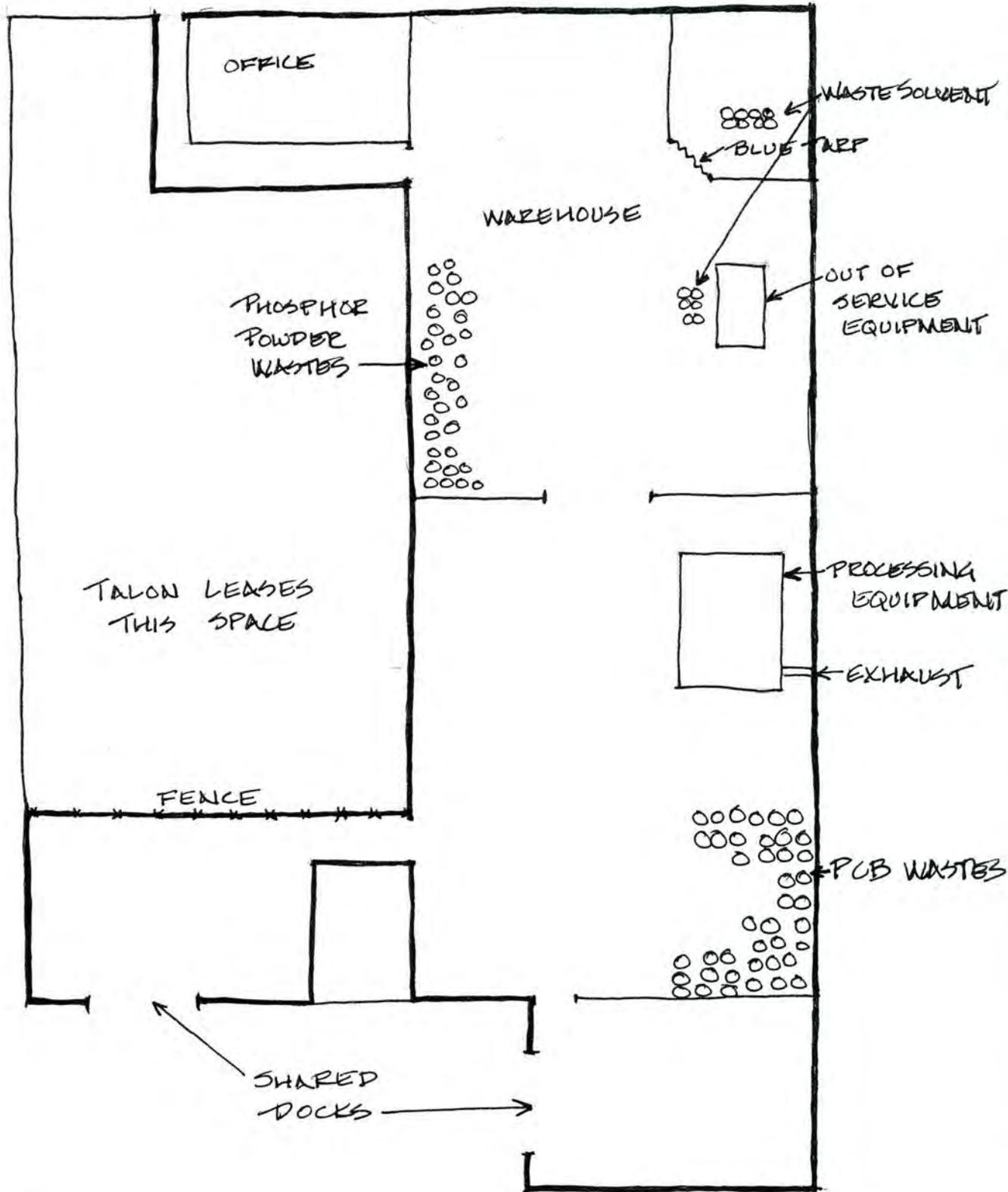
None known.

**19. Knowledge of any outstanding violations and/or enforcement action in other regulatory programs by Ohio EPA, U.S. EPA or Ohio Attorney General's Office and the extent of coordination between programs:**

None known.



W. 71ST ST.



↑ N  
NTS

AMERICAN RECYCLING COMPANY

# Memo

**To:** File  
**From:** Sherry Slone  
**Date:** March 14, 2001  
**Subject:** Notes from Inspection at American Recycling Company, LTD.

## Inspection March 12, 2001

*Rose Connelly (lead), Randy Ohlemacher, and Sherry Slone*

Met with Drew Koler and Dan I.n.u.(process supervisor). Drew explained that American Recycling Company (ARC) accepts HID and fluorescent lamps for recycling. Other items accepted are sent on to treaters or brokers. Batteries are sent to Mid West Guardian in Wapekoneta, Ohio. CRT's, keyboards and computers are sent to Great Lakes Electronic Recycling. Switches are sent to Chemtron or to Mercury Waste Solutions. Safety Kleen is used as a broker for ballasts. Not all ballasts have PCB's. Haven't accepted ballasts since moved to this site in February 1999. 95% of incoming lamps are in cardboard boxes. 5% are in fiber or steel drums.

Talon, the occupant of an adjacent leased space, shares the loading dock with ARC. (The building is owned by Advance Handling and Storage, Inc.) As lamps come in they are palletized. Occasionally lamps are broken when they come in. When this is the case, the lamps are transferred to steel drums. Whole lamps are easier to process than crushed. All storage of lamps is done within the building on a concrete floor. Initially Drew told us there were no floor drains. However some were noticed during our walk-through and pointed out to Drew, and he then said they were plugged.

## Process

The customer packages their own lamps. If the lamps have been broken, ARC sends an open head steel drum with a gasket to the customer. The lamps are transported in on a non-haz manifest or bill of lading. Upon receipt at ARC, a visual inspection is done. They are staged close to the processing equipment and processed in the order received. The lamps are stacked on pallets and a fork lift is used to lift the pallets to the feed platform. The lamps are placed on an inspection table (negative air pressure) where they are counted. They are then fed into a chute to a crusher, through a separator and sieves. The end caps and glass go into gaylords and the phosphor powder and glass fines or sand go into drums. (The equipment used is called a 5M ARC system and Drew gave Rose a copy of their marketing literature for this system.)

The entire process is closed and under negative pressure. High efficiency filters are located before the exterior exhaust. Drew said he has talked with Nancy Meli and Dennis Bush from NEDO DAPC. Emissions are de minimis and therefore no point source permit was needed. The filters have a back cleaning feature and have not had to be changed yet (2 years). Randy advised Drew that TCLP should be done on the filters when they are removed. A TCLP was done on the glass and it was found to be non-haz.

The glass is given or sold at a very low price to Strategic Materials in Indianapolis. The glass is used for art glass purposes, for fiberglass insulation and for synthetic granite wall surfacing. End caps go to Chemetco, a broker on the east side of Cleveland, that sells them to the steel mills. The phosphor powder has been accumulating in drums and a known recycling use has not yet been found. Drew said the phosphor powder would be TCLP for mercury, D009, if the powder was a waste. He has been thinking about how the powder might be used in building materials such as blocks. However, the phosphor would not be taking the place of a needed ingredient. It would be a method to avoid disposal in a landfill. Approximately 70 drums of phosphor powder is in storage. Drew said they need to send the contents of most of these drums back for reprocessing through their newer equipment because the pieces of glass in the powder are too large. This hasn't been done because it takes time and doesn't make money. Phosphor solution was sent to Mercury Waste Solutions in past. (This company was bought out by Superior Services.) One drum of D009 was sent on a manifest to Mercury Waste Recyclers on 3/18/98. No phosphor has been sent off-site from this location (since 2/99). Most of these drums were brought over from the previous site.

About 25000 lamps are received per month. 100% of these are recycled. Less than 1 drum per month of phosphor powder is generated from the process. It costs about \$500 per drum to send phosphor powder to a retort facility. Adding retort equipment to their system would not be economically efficient. HID lamps don't have phosphor coating like fluorescent lamps. Some fluorescent lamps have a plastic coating (Shattershield) that make them harder to process. These are processed together but separately from regular fluorescent lamps.

#### Misc.

Operating hours are from 8:30-4:30. ARC has three employees including Drew. They also employ independent drivers as needed. Drew is thinking of adding a second shift.

ARC notified as a SQG in 5/99. Drew indicated this was a protective filing but don't routinely generate haz waste. Want to maintain ID# for any phosphor sent to a retort facility.

Drew indicated the phone number for ARC on our fact sheet is wrong.

Drew is in favor of Ohio EPA adopting the UWR because it would level the playing field across states.

#### Walk Through

We walked through the warehouse area first. A corner room had a blue tarp covering its doorway. 8 - 10 drums of solvent/oil were found in this area. Some of those might be empty.

The solvent was used at their previous facility for ballast recycling. The warehouse contained numerous drums of phosphor powder. Drew said there were about 74 drums. There was no aisle space around these drums to inspect. Dates of 2/00, 1/00, 4/99, and 5/99 were observed on drums near the process area. Gaylords of capacitors were also stored with the phosphor powder on the west side of the warehouse area. Floor drains were noted and Drew said he thought they were blind. We inspected the loading dock area and the process area.

Over 300 drums of ballasts were being stored in the southeast corner of the process room. There was no aisle space to inspect these drums which were stacked 4 pallets high. Drew said most of these were brought over from the previous facility where they recycled PCB ballasts.

#### Exit Discussion

Drew will confirm with the landlord that the floor drains have been plugged. Most ballasts are from previous site. Reviewed the MSDS for the solvent that was used in a parts washer. Flash point was 120 F. Drew said he would dispose of all solvent properly with Chem Solvents.

PCB process wastes at previous site are being sent to Safety Kleen at the rate of two drums per month. Our files showed wastes were last sent off-site in December. Drew had manifest #01261 showing 2 drums were sent off on January 26, 2001 and another manifest for 2 drums at the beginning of March (for February). Plans to do another shipment in March.

Randy advised Drew of his speculative accumulation violation for the phosphor powder. Randy also advised him to open and number all drums of solvent. He will need to characterize these wastes by running organics, metals, and PCB's.

Rose indicated she would follow up with a letter.



State of Ohio Environmental Protection Agency

Northeast District Office

2110 E. Aurora Road  
Twinsburg, Ohio 44087-1969

TELE (330) 425-9171 FAX (330) 487-0769

Bob Taft, Governor  
Christopher Jones, Director

April 19, 2001

RE: AMERICAN RECYCLING CO., LTD.  
OHD000720110  
CUYAHOGA COUNTY

Mr. Drew Koler  
American Recycling Company, LTD.  
P.O. Box #27486  
Cleveland, Ohio 44127-0486

CERTIFIED MAIL

Dear Mr. Koler:

Thank you for cooperating on March 12, 2001 when Rose Connelly, Randy Ohlemacher and I visited American Recycling Company, Ltd. (ARC) at 3203 W. 71<sup>st</sup> Street in Cleveland, Ohio. We had originally come on March 8, 2001, but you stated you could not meet with us that day so we arranged to come back on the 12<sup>th</sup>. We visited ARC to determine how lamps are being managed, how each product of the recycling/dismantling operation is being used, how materials are being handled on site, and what quantities of lamps and other materials are being handled. We did not conduct a complete hazardous waste compliance evaluation inspection but we did discover several **significant violations** during our visit.

We understand ARC is a recycling company that accepts primarily fluorescent and high intensity discharge lamps. ARC also accepts and then serves as a broker for other items such as batteries, keyboards, computers, and switches. About 25000 lamps are received per month and 100% of these are recycled. The lamps are received with non-hazardous waste manifests or bills of lading at a loading dock which is shared with the occupant of the adjacent leased space in the same building. As lamps come in they are visually inspected. If lamps are broken, they are transferred to a steel drum with a lid. The lamps are secured onto a pallet and staged close to the processing equipment. They are processed in the order received. A fork lift is used to lift the pallets to the elevated feed platform. The lamps are placed on an inspection table where they are inspected and counted prior to entering the feed chute of the system. The lamp crushing system is under negative air pressure as it separates the lamps into the components of glass, end caps and phosphor powder. The glass continues through the system for further separation. It is screened on a shaker and separated into sand-like fines and larger pieces of glass. Glass and end caps are collected in large, heavy-walled, corrugated boxes. Phosphor powder and glass fines are collected in fifty-five gallon drums. High efficiency filters are located before the exterior exhaust. They have a back cleaning feature and have not been changed since at least February 1999. (These filters will need to be properly evaluated when they are removed to determine if they are a hazardous waste.)

The glass is given or sold at a very low price to be reused for fiberglass insulation. Other reuses such as art glass and synthetic granite wall surfacing are being considered. ARC has sampled the glass and has had a toxicity characteristic leaching procedure (TCLP) test performed on it. The glass was determined to be non-hazardous. End caps go to a broker in Cleveland that sells them to steel mills for recycling. The phosphor powder has been accumulating in drums and a known recycling use has not yet been found. You acknowledged the phosphor powder would be a D009 hazardous waste because of its mercury content if sent off-site as a waste. One drum of this waste was manifested off-site on March 18, 1998 as a hazardous waste from your former site at 6701 Hubbard Ave. in Cleveland to a mercury treatment facility. Approximately 74 drums of this waste are being stored in your facility. You estimated that approximately one drum per month of this waste is generated and most of this stored waste was brought over from the previous location.

We found the following violations of Ohio's hazardous waste regulations and laws.

1. **Storage of a Hazardous Waste at an Unpermitted Facility and Transporting a Hazardous Waste to an Unpermitted Facility - Ohio Revised Code (ORC) 3734.02(F)**

According to Ohio Administrative Code (OAC) rule 3745-51-02(B), materials are wastes when they are accumulated or stored before or in lieu of being disposed. The mercury contaminated phosphor materials are wastes because they have been accumulated in lieu of being disposed. One drum was manifested as a hazardous waste in 1998 but none since. ORC 3734.02(F) prohibits any person from storing a hazardous waste at a facility that does not have a hazardous waste permit. These wastes have been accumulated for over six years, based on 74 drums being stored with a generation rate of one drum per month. The current and the previous facilities do not have a hazardous waste permit and therefore these wastes have been illegally stored at the current location since February 1999.

Also ORC 3734.02(F) prohibits any person from transporting or causing to be transported hazardous waste to an unpermitted facility. ARC transported, or caused to be transported, approximately 50 drums of the mercury contaminated phosphor waste illegally from its previous location to the current location in February 1999.

**ARC must immediately arrange for the proper transportation and treatment or disposal of these wastes.** Please submit copies of manifests to me within 30 days of the date of this letter showing that these wastes have been removed from the site. Also submit a written explanation, within 30 days of the date of this letter, describing how these wastes will be managed as they continue to be generated.

Be advised that since ARC has accumulated hazardous waste for over 90 days at this facility, it is the operator of a storage facility according to OAC rule 3745-52-34, and is subject to the requirements of rules 3745-50-40 to 3745-50-62, 3745-54 to 57, and 3745-65 to 3745-69. Please inform me, within 30 days of the date of this letter, of any efforts you have taken to comply with any of these rules.

**2. Waste Evaluation - OAC rule 3745-52-11**

ARC failed to evaluate the waste solvent generated from its former ballast recycling operation, or other operations, to determine if it is a hazardous waste. At the time of the inspection, ARC was accumulating the waste solvent in ten 55-gallon drums in a northeast room of the warehouse, behind a hanging blue tarp. Unevaluated waste solvent was also located outside of the blue tarp, on the east side of the warehouse. Some of these containers were labeled "used solvent" and some were not labeled but acknowledged to be used solvent. A material safety data sheet for this solvent showed the original flash point was 120 degrees Fahrenheit.

ARC must immediately evaluate its waste solvent to determine if it is a listed or characteristic hazardous waste pursuant to OAC rule 3745-52-11. We are requesting that you notify us at least five business days in advance of any sampling of these solvents, so that we can be present when you sample. You indicated you would dispose of all solvents properly at Chemical Solvents, a permitted hazardous waste facility. Within 30 days of the date of this letter, submit manifests showing that this waste has been properly removed from the site.

We have the following concerns with your facility:

During the entrance interview you told us that phosphor powder generated during the lamp recycling operations could potentially be incorporated into building materials such as blocks. You indicated the powder would not be taking the place of a needed ingredient. Be advised this would not constitute legitimate recycling, and therefore the powder would still be considered a hazardous waste and need to be managed as such.

During our tour of your facility you verified that you are storing over 300 drums of PCB and non-PCB ballasts. These drums were stacked 4 pallets high, with no aisle space. These ballasts were intended to be recycled using ARC's ballast recycling equipment at its former location. You do not perform ballast recycling at your present site. Most of the 300 drums were brought over from your previous site in February 1999 and you have no immediate plans to manage these containers. We have notified Kenneth Zolnierczyk at USEPA Region 5 and will be following up with him regarding your PCB waste.

AMERICAN RECYCLING CO., LTD.  
APRIL 19, 2001  
PAGE - 4 -

During the tour we noticed floor drains in the area where the phosphor waste was being stored. You indicated that you would confirm with your landlord that the drain lines have been plugged.

Enclosed you will find a copy of the checklist completed during our visit. A copy of the hazardous waste rules and laws can be found on our web site at [www.epa.state.oh.us](http://www.epa.state.oh.us). If you should have any questions or need any assistance, please feel free to contact me at (330) 963-1226. Please submit the above requested items to my attention at the northeast district office.

The absence of listing a specific deficiency in this letter does not relieve ARC from the responsibility to comply with all applicable hazardous waste regulations.

Sincerely,



Sheryl K. Slone, P.E.  
Environmental Engineer  
Division of Hazardous Waste Management

SKS:ddw

cc: Jeff Mayhugh, IT&TS, DHWM  
Rose Connelly, IT&TS, DHWM  
Randy Ohlemacher, CAS, DHWM  
Natalie Oryshkewych, NEDO, DHWM  
Linda Neumann, CO, DHWM  
David Hearne, Cleveland Bureau of Air Pollution Control

Enclosure

## Fluorescent Lamp Recycler Site Visits

Company: American Recycling Company, Ltd. EPA ID#: OHD000720110  
 Street: 3203 W. 71<sup>st</sup> Street City: Cleveland  
 County: Cuyahoga State: Ohio Zip: 44102  
 Mailing Address: P.O. Box 27486 Cleveland, Ohio 44127-0486  
 (If different from above)  
 Telephone: 216-281-9200 Fax #: 216-281-5505  
 Owner/Operator: Advanced Handling & Storage Inc. Joe Cala 651-4477 or 440-248-6202  
 (If different from above)  
 Street: same  
 City: \_\_\_\_\_ State: Ohio Zip: \_\_\_\_\_  
 Inspection Date(s): March 12, 2001 Time(s): 11:45 a.m. to 4:20 p.m.  
 Inspection Announced?  Yes  NO If so, how much advance notice given? 4 days

	<u>Name</u>	<u>Affiliation</u>	<u>Telephone</u>
Inspectors:	<u>Rose Connelly</u>	<u>Ohio EPA DHWM, CO</u>	<u>614-644-2667</u>
	<u>Randy Ohlemacher</u>	<u>Ohio EPA DHWM, CO</u>	<u>614-644-2971</u>
	<u>Sherry Slone</u>	<u>Ohio EPA DHWM, NEDO</u>	<u>330-963-1226</u>
Facility Representative:	<u>Drew Koler</u>	<u>Environmental Coordinator</u>	<u>216-281-9200</u>

**NOTE: The four major goals of fluorescent lamp recycler site visits are:**

1. **Determine how the lamps are being managed;**
2. **Determine how each product of the recycler/dismantler operation is being used;**
3. **Determine how all handlers are managing materials on site; and**
4. **Determine the quantities of lamps and other materials which are being recycled.**

STORAGE (UPON RECEIPT)

Upon receipt how are lamps being stored?

1. Are they stored in containers? Yes or No (describe the type of container(s) used)

*Lamps are received in the original lamp boxes and then palletized, and stacked prior to processing.*

2. Is storage inside/outside? (circle the applicable response). Describe where at the facility containers are being stored.

*Lamps are received at facility's loading dock and stored inside the facility. Lamps are stored at various locations within the facility. Most lamps are in boxes on pallets, but some boxes are stored on the floor.*

3. Does storage occur on an impermeable surface? Yes or No, please describe.

*Lamps are stored on pallets on the facility's concrete floor.*

4. Is storage in areas where an environment release may cause harm? (Such as floor drains, ponds, wells) Yes or No, please describe.

*There are three visible floor drains within the facility. ARC has been told by building owner that drains are not functional.*

5. Are bulbs broken when received? Yes or No, please describe.

*Yes, ARC does accept broken bulbs. Broken bulbs are placed in an open top w/bolt ring cover US DOT approve steel drum. ARC will supply broken lamp drums if necessary. Broken bulbs are managed first.*

6. Are broken bulbs placed on the ground. Yes or No, please describe.

*Broken bulbs are stored in 55 gallon steel drums that are placed on pallets.*

7. How are broken bulbs handled?

*Broken bulbs are segregated by type and placed in drums.*

## RECYCLING PROCESS

1. Provide a detailed diagram describing the process(es). The information provided should include the technology used, materials going into the process, waste generation points, end points, etc.

*ARC receives shipments of lamps at facility's loading dock and performs an initial visual inspection. Shipments are off-loaded onto pallets or onto the floor. If bulbs are broken, they are set aside to be managed first. ARC maintains a first in, first out processing rule, but manages broken bulbs before any other type. If containers have not already been placed on pallets, they are placed on pallets at this time and then moved to an area where they will be kept prior to processing. When it is time for lamps to be processed, a forklift transfers the pallet onto a raised platform. Containers of lamps are opened onto an inspection table where they are visually inspected before being fed into the lamp crushing system. Lamps are tallied before entering into the mouth of the system. The lamp crushing system is under negative air pressure as it separates the lamps into glass, end caps and phosphor powder. The glass continues through the system for further separation; it is screened on a shaker and separated into sand-like fines and larger pieces of glass. Glass is collected in large, heavy-walled, corrugated Gaylord boxes. End caps are also collected in similar Gaylord boxes. Phosphor powder is collected in fifty-five gallon drums. ARC maintains that they recently changed their crushing process so that powder is better separated from glass pieces. ARC has not shipped phosphor off-site since they've moved to their present location (notified as Small Quantity Generator (SQG) as of May 1999).*

2. What components are being recycled? (Include a list of the recycled components).

*Glass, glass fines and end caps*

3. How is each component being recycled?

*Glass and fines are shipped to Strategic Materials in Indianapolis, Indiana to be used in production of fiberglass insulation for commercial buildings.*

*End caps are shipped to Chemetco in Cleveland, Ohio who then sells them to steel mills for smelting. ARC is unsure what is done with end caps after smelting.*

4. What wastes are generated from the recycling process?

*Phosphor powder containing mercury.*

5. What happens to these wastes? (are they evaluated?, properly managed?, where are they going?)

*Phosphor powder has not been evaluated and has not been shipped off site from ARC's present location. ARC maintains that they must reprocess some of the powder to further remove glass from powder. Drums of powder have been accumulating since before ARC moved to present address. There are approximately 75 drums of phosphor powder stored on-site.*

*End caps have not been evaluated.*

Glass has been evaluated for TCLP at least once ( EnviroMatrix, Inc. 2/1).

6. What quantities of lamps are received? (provide the number or weight of the lamps received, if possible)

*ARC receives approximately 25,000 bulbs per month and shipments are accepted daily.*

7. What percentage of the lamps received are recycled?

*One hundred percent of lamps received are recycled. Some lamps are harder to process. These are set aside until enough are collected to do all at once (example: Shatter-shield type lamps). ARC contracts temporary drivers to pick up scheduled shipments when necessary.*

8. Are other mercury containing items accepted? If so, list the other items and include quantities accepted and include a description of the recycling process.

*Batteries - consolidated and shipped to R.H. Welf & Associates where they are recycled.*

*Computers, CRTs, keyboards - consolidated and shipped to Great Lakes Electronics Recycling in Detroit, MI.*

*Mercury switches - consolidated and either sent to Mercury Waste Solution's retort operation in Union Grove or to Chemtron to be brokered for unknown use/disposal.*

9. Are other materials accepted for recycling? If so, list those items and include quantities accepted.

*ARC previously accepted and recycled ballasts. They no longer offer this service.*

10. How long has the fluorescent lamp recycler been in operation?

*ARC has been at this address since February 1999, but didn't began operations until May 1999.*

11. Have samples been collected and analyzed? Yes or No, if yes please describe how the samples were collected, prepared and analyzed. Include a copy of available analytical results.

*Glass has been tested for TCLP on February 5, 2001 by EnviroMatrix, Inc. Results are attached.*

*Phosphor powder has not been analyzed.*

**OTHER:**

ARC submitted a Pollution Prevention loan application in 1995. ARC was approved in 1995, to install and operate light ballast and lamp recycling systems that will significantly reduce the hazardous and toxic pollutants listed above that would otherwise be released into the environment. ARC received this loan in August of 1997 and it is still in payment.

ARC notified as a SQG on May 3, 1999. Reported characteristic wastes on site are: D001, D005, D006, D008, D009. Reported listed wastes on site are: U028 AND U151. PCBs were also reported to be managed on-site. ARC is maintaining their generator status although they claim that they are not currently generating hazardous waste.

ARC indicated that they got a verbal okay from Northeast District Office (NEDO), Division of Air Pollution Control, for their lamp crushing operation's negative air pressure system. ARC said that the emissions unit is a DeMinimis unit, which means that emissions of an air pollutant from the source is limited to less than ten pounds per day or restricts the operation of the source in a manner equivalent to an emission limit of less than ten pounds per day. ARC said they worked with Dennis Bush and Nancy Meli, in NEDO regarding this, but ARC does not have documentation to support this claim. ARC has not changed filters in their negative air pressure system since they have been at this address.

There is a blue tarp hanging in the northeast corner of the facility where ten drums of unknown solvent are stored. These drums have not been evaluated, but ARC maintains that some of them contain a kerosene based solvent that was used for the ballast recycling system parts washer.

Over 300 drums of PCB ballasts were stacked on pallets four and five high, and five deep. Drums are in deteriorating condition. All have been brought to this site from former facility. At this time, ARC does not have plans together for disposal of this material.



State of Ohio Environmental Protection Agency

**STREET ADDRESS:**Lazarus Government Center  
122 S. Front Street  
Columbus, OH 43215-1099**MAILING ADDRESS:**P.O. Box 1049  
Columbus, OH 43216-1049

TELE: (614) 644-3020 FAX: (614) 644-2329

April 27, 2001

Kenneth Zolnierczyk  
U.S. EPA Region V, DT-8J  
77 West Jackson Boulevard  
Chicago, IL 60604-3507

Dear Mr. Zolnierczyk:

This letter serves as a follow-up to my March 21, 2001, e-mail, wherein I conveyed Ohio EPA's concerns regarding American Recycling Company, Ltd.'s (ARC) storage of more than three hundred drums containing PCB and non-PCB ballasts. Also in that e-mail, I told you that I was in the process of generating a procedural follow-up letter to ARC to make them aware of Ohio EPA's concerns about their operations and to inform them that we would be notifying U.S.EPA Region 5 of ARC's PCB waste. Due to Ohio EPA's concerns with ARC's hazardous waste management, we escalated the procedural letter to a Notice of Violation (NOV) letter. The following is a summary of our PCB concerns at ARC:

A team of Ohio EPA inspectors visited ARC's facility on March 12, 2001. At our inspection, we discovered more than three hundred drums of PCB and non-PCB ballasts, stacked 4 pallets high, with no aisle space. The ballasts were supposed to be recycled using ARC's ballast recycling equipment. If you read through the attached inspection notes, you will see that ARC has been, and is still, failing to properly manage PCB waste at its former facility, 6701 Hubbard Avenue, Cleveland, Ohio. The facility representative, Drew Koler, stated that most of the more than three hundred PCB drums presently on site at ARC's W. 71<sup>st</sup> Street facility, were brought over from their former Hubbard Avenue facility. ARC moved from 6701 Hubbard Avenue, to 3203 W. 71st Street, Cleveland, Ohio in February, 1999. This is approximately the time that PCB ballasts were transferred to ARC's present facility.

I have attached our photo log from our March 12 inspection of ARC, as well as, Ohio EPA's April 19, 2001, NOV letter to ARC. ARC's facility is located at 3203 W. 71st Street, Cleveland, Ohio 44102 and its EPA identification number is: OHD000720110. The facility's representative, Drew Koler, can be reached at (216) 281-2828.

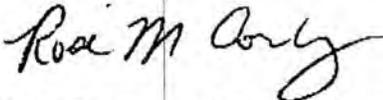
Bob Taft, Governor  
Maureen O'Connor, Lieutenant Governor  
Christopher Jones, Director

Kenneth Zolnierczyk  
U.S. EPA Region V, DT-8J  
April 27, 2001  
Page 2 of 2

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Please let me know if you need any additional information. I may be reached at (614)644-2667 or via e-mail at [rose.connelly@epa.state.oh.us](mailto:rose.connelly@epa.state.oh.us).

Sincerely,



Rose Connelly, Environmental Specialist II  
Information Technologies & Technical Support Section  
Division of Hazardous Waste Management

cc: Jeff Mayhugh, Supervisor, IT&TS, DHWM  
Debbie Sharpe, IT&TS, DHWM  
Randy Ohlemacher, CAS, DHWM  
Sherry Slone, NEDO, DHWM

Attachments: 3/12/01 Photo Log: American Recycling Company inspection  
4/19/01 NOV letter from Sherry Slone to American Recycling Co., Ltd.

g:\users\ds\sharpe\arc-region 5.wpd



AMERICAN RECYCLING  
COMPANY, LTD.

RECEIVED  
MAY 16 11 00 AM '01  
OHIO EPA NEDO

P.O. Box #27486 • Cleveland, OH 44127-0486  
Phone: (216) 281-9200 • FAX (216) 281-5505

May 15, 2001

Ms. Sheryl K. Slone  
Ohio EPA – Northeast District Office  
Division of Hazardous Waste Management  
2110 E. Aurora Road  
Twinsburg, OH 44087-1969

Certified Mail

Dear Ms. Slone:

Thank you for agreeing to come back on March 12<sup>th</sup> to meet with Dan Bickley and me. As I explained when Rose Connelly, Randy Ohlemacher and you showed up unannounced on March 8<sup>th</sup>, we were short handed in the lamp recycling plant that day and would have had to stop recycling because I wanted Dan Bickley, the new ARC Supervisor to attend our meeting. Dan's job responsibilities at ARC include some key environmental, health and safety functions.

Stopping lamp recycling for the unannounced meeting would have created an unwarranted financial burden on American Recycling Company, Ltd. (ARC).

**We strongly disagree with the alleged discovery of several significant violations of Ohio's hazardous waste regulations and laws at ARC.**

Before we address the two alleged violations in your letter dated 4/19/01, we would like to go over some important and significant background information.

We discussed and/or met with key Ohio EPA (OEPA) officials before and after ARC was formed in October 1994 to go over in detail the specific Ohio EPA rules and laws that apply to fluorescent/high intensity discharge lamp and ballast recyclers in Ohio.

Our first meeting at the OEPA to discuss the lamp/ballast recycling rules was on November 30<sup>th</sup>, 1994 at the Columbus Office with Jim Braun-Division of Air Pollution Control, Craig Butler-Division of Hazardous Waste Management/Office of Pollution Prevention, and Art Coleman-Division of Solid & Hazardous Waste Management (See enclosed ARC letter dated December 6, 1994).

We were also given some important OEPA produced and written documents including the OEPA September 1994 Fact Sheet The Management of Fluorescent Lamps and PCB Ballasts in Ohio. Also, Art Coleman faxed me a letter on December 3, 1999 that he wrote to Recyclights, Inc. on September 16, 1996 explaining some key provisions of Ohio's mercury lamp recycling rules that also apply to ARC (See both documents enclosed).

Ms. Sheryl Slone, Ohio EPA – Northeast District Office  
May 15, 2001  
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As you know, we also submitted and received approval on our OEPA/Ohio Department of Development Pollution Prevention (P2) Loan Technical Review Worksheet (TRW) in August 1995 for our new lamp recycling system and upgrades to our light ballast recycling system. We received the P2 loan and completed installation and limited operation of our lamp/ballast recycling systems the second half of 1997.

The important purpose of all the discussions, meetings and pollution prevention equipment installation and operation activity was to firmly establish with the complete approval of the OEPA that ARC was not a hazardous waste treatment or storage facility. At no time did the OEPA indicate that they considered ARC planned operating activities to require air, hazardous waste or PCB permits.

This background information is critically important because it is the foundation ARC was established on and has significant impact on our initial and current business and operating plans.

With this important background information in place, lets review the alleged ARC violations:

1. The section What are your responsibilities if your fluorescent lamps are hazardous waste? on page 2 of the OEPA Fact Sheet: The Management of Fluorescent Lamps and PCB Ballasts in Ohio states in part: "In Ohio, used and off-specification (ie. defective) lamps exhibiting a hazardous characteristic are considered characteristic by-products. Unused lamps are considered commercial chemical products. According to OAC Rule 3745-51-02[C][3], characteristic by-products and commercial chemical products destined for reclamation are not considered waste, and do not require compliance with Ohio's hazardous waste rules."

Art Coleman also confirms the above referenced OEPA rule in his letter to Recyclights, Inc. dated September 16, 1996.

You acknowledge in your letter and checklist report that ARC recycles (i.e., reclaims) 100% of the lamps we receive.

Furthermore, ARC sends our recycled lamp glass and screener sand fines to companies that use this material as a beneficial feedstock to make other products which you also acknowledged in your letter.

After a further review of all the recycled lamp glass and screener sand fines sent off site by ARC for beneficial reuse from 1978 (1978 was the first full year of lamp recycling at ARC, the majority of 1997 was spent installing, checking the operation and fine tuning the new lamp recycling system) up to and including February 2001 shows a total of over 517,000 lb./258 tons of lamp glass/sand sent off site (See enclosed ARC, Container Recycling Alliance and Strategic Materials documentation).

The 74 drums of the ARC intermediate lamp glass/phosphor powder product at an average weight of 660 pounds per drum total 48,840 pounds. This represents only 9.5% (i.e., 48,840 lb. divided by 517,000 lb.) of the total lamp glass/sand sent offsite for beneficial reuse by ARC. In other words, over 90% of the ARC lamp recycling glass/sand is beneficially reused in other products.

We never considered the 74 drums of the ARC intermediate lamp glass/phosphor powder to be a waste. The one drum of this intermediate product we sent off-site on March 18, 1998 to a mercury reclaim facility was part of an exchange for some light ballasts drums the mercury reclaim facility wanted us to recycle for a Cleveland area project they completed. We do not consider our lamp glass/phosphor powder intermediate product to be a D009 hazardous waste. We were informed by the mercury reclaim facility that the state of Wisconsin EPA where there mercury reclaim facility is located considers the ARC intermediate product to be a D009 waste and we must manifest our material to them this way. The mercury reclaim facility completed the State of Wisconsin Uniform Hazardous Waste Manifest with the D009 waste code for ARC.

As I discussed with Rose, Randy and you during your visit at ARC, we are reprocessing the ARC recycled lamp glass/phosphor powder mixture through our lamp recycling system because we have made some system improvements in December 2000 that allow us to reclaim larger pieces of lamp glass that we showed you in this intermediate product. As we also discussed with you, ARC plans on reprocessing this intermediate product material based on a schedule reflecting our priority to recycle incoming cash generating customer lamps first.

2. As we explained the day of your visit, the primary light ballast metal parts washing material ARC used in the past was a safety solvent from Hukill Chemical called Solvent 140-66 (Huvasol 140). Hukill indicated that this solvent would not be considered an ignitable waste because the flash point was greater than 140 degrees F and did not contain any other RCRA regulated constituents. The material safety data sheet (MSDS) for Huvasol 140 shows a flash point of 142.0 – 150.0 degrees F. I did not have the Huvasol 140 MSDS (enclosed) readily available for your review during your visit because we no longer use this solvent since we no longer recycle light ballasts. As we further explained, the MSDS sheet and flash point you refer to in your report was for some pure K-1 type kerosene that our employees use in the plant for portable style heaters during cold weather. Some of the drums you saw may contain the pure K-1 heating kerosene.

We did add some kerosene to our large ballast metals parts washing tank to make up for some Huvasol 140 solvent drag out loss on cleaned parts.

Ms. Sheryl Slone, Ohio EPA – Northeast District Office  
May 15, 2001  
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The ballast metal parts wash tank solution was periodically screened for PCBs at our former location using a Dexsil Clor-N-Oil 50 test kit (USEPA SW-846 Method 9079). All test kit screen results showed PCB levels were below 50 ppm for the wash tank solution.

In summary, based on our knowledge of the ARC former light ballast parts washing process we do not believe this mixture of Huvasol 140, kerosene, and residual ballast parts oil is a hazardous waste.

We will however have the used parts wash mixture tested for flash point and PCBs as back up to our knowledge of this material. We will notify you five business days in advance of the sampling date.

If the above testing shows the parts wash mixture is a hazardous waste, we will make arrangements with an appropriate disposal facility (e.g., Chemical Solvents) to have the waste removed from ARC based on available cash and other priority ARC expenses.

**We have the following responses to your concerns with the ARC recycling operation:**

We had a rather lengthy discussion of ARC plans to make some commercial products from the recycled lamp glass, glass fines, and phosphor powder. We showed you some samples of the art glass and synthetic-Italian marble that some other companies made for us with 100% or a very high percentage of ARC recycled lamp glass. We explained that this was an important part of ARC's continued pollution prevention commitment and to control our recycled lamp product variable costs.

We also discussed some other products we were evaluating that could be made using our glass fines and phosphor powder such as cement building blocks and floor/wall tiles. Calcium, a major component of our phosphor powder product is also a major ingredient in cement-based products.

Silica (sand) is a major component of our glass fines product and is also a major ingredient in ceramic-glass floor/wall tiles.

I think Dan Bickley made a comment that he was not sure if the ARC sand fines would be a needed ingredient for cement-based building blocks. Since Dan is new to ARC, I remember clarifying his comments with some of the information above and indicated that we were still evaluating these potential ARC products.

Apparently you misunderstood our comments on ARC legitimate recycled lamp product plans.

Ms. Sheryl Slone, Ohio EPA – Northeast District Office  
May 15, 2001  
Page - 5

Regarding the 300+ drums of PCB and non-PCB light ballasts at ARC, we again refer to the OEPA September 1994 Fact Sheet: The Management of Fluorescent Lamps and PCB Ballasts in Ohio for important information that the ARC business and operating plans were based on.

The section Management of Ballasts on page 2 states in part “In specific situations, ballasts are exempt from TSCA requirements. For instance, TSCA does not regulate the disposal of non-leaking, Small Capacitors.”

The light ballasts that ARC accepted all contained small capacitors.

It was our understanding from some discussions with EPA officials that it was acceptable to determine if a light ballast capacitor was leaking PCBs by a visual inspection of the outside metal casing of the light ballast. If the outside metal casing showed no visible signs of a black oily or tar-like substance then this was adequate to determine the PCB small capacitor inside the ballasts was non-leaking. There was no requirement to open up the light ballast and inspect or test the internal small capacitor or potting material.

It was our experience from visually inspecting the outside of light ballasts that very few had leaking small capacitors.

Based on the OEPA Fact Sheet referenced above, our discussions with EPA officials, and our experience with recycling light ballasts it was determined that ARC was not required to obtain a TSCA PCB facility operating or storage permit.

As I indicated during your visit, we do have plans to start removing small quantities at a time of the PCB light ballast drums to an EPA approved facility as soon as the ARC financial situation improves.

We will confirm with our landlord that the floor drains you noticed in the area of our phosphor powder product are not functional.

Please make the following correction to item # 8 under the Recycling Process section of the Fluorescent Lamp Recycler Site Visits checklist:

Chemtron is a broker that has sent ARC some mercury containing items for recycling.

ARC has not shipped Chemtron any mercury containing items.

ARC has sent some mercury containing items to the Salesco Systems Phoenix, AZ retort operation.

ARC sent one drum of our mercury containing phosphor powder/lamp glass mixture intermediate product to the Mercury Waste Solutions retort operation in Union Grove, WI.

**We have the following summary comments and concerns:**

1. We appreciate the OEPA's initial encouragement and support of ARC's pollution prevention plans and activities starting in 1994 when ARC was established. The pollution prevention loan ARC received in 1997 was put to very good use with ARC mercury containing lamp recycling/reclaiming activities that have so far diverted 258+ tons of lamp glass/glass fines, and metal end caps from Ohio's and other states municipal/sanitary landfills or incinerators.  
This represents a lamp component recycling/reclamation rate of greater than 90%.  
From our comments above you know that we also have plans for ARC to manufacture some commercial products from other lamp recycling products (i.e., lamp glass, lamp glass/phosphor powder mixture and phosphor powder) that will further increase our reclamation rate and improve control by internalizing ARC recycling costs and profits. Our past light ballast recycling activities have also diverted many tons of PCB and non-PCB wastes from municipal/sanitary landfills or incinerators. The recycled light ballast metal components (i.e., aluminum, copper and steel) were beneficially reclaimed.

We do have some serious concerns about the OEPA's arbitrary reclassification of some of our legitimate lamp recycling activities as a violation of the OEPA's hazardous waste rules (See alleged violation No. 1).

2. We understand that the OEPA is considering adopting the U.S. EPA Universal Waste Lamp Rule (See enclosed OEPA January 2001 Fact Sheet: How the Universal Waste Rule Will Affect Facilities Managing Fluorescent Lamps) and this was the reason given for your visit to ARC.  
We are encouraged that the OEPA may adopt this important Lamp UWR that will benefit all Ohio lamp recyclers.  
We are concerned whether the OEPA will adequately support the Lamp UWR and specifically lamp recycling with important educational outreach, training, and inspection activity and funding.  
It is very important that the OEPA continues to support ARC and other Ohio lamp recyclers via expanding lamp generator inspections and education programs. Further state of Ohio funding and technical support is also necessary to support lamp recycling product development and scrap commodities markets.  
ARC has not been able to locate a lamp glass broker/recycler in Ohio that will accept our material at a cost effective price. We are currently paying over \$20.00 per ton to ship our lamp glass out of state to an Indiana glass broker/recycler.  
The primary reason that ARC stopped recycling light ballasts was because of the depressed or soft secondary metal commodity markets.

Ms. Sheryl Slone, Ohio EPA – Northeast District Office

May 15, 2001

Page - 7

If you need further clarification or have any questions please call me at 216-281-9200.

Sincerely,

A handwritten signature in black ink that reads "Drew Koler". The signature is fluid and cursive, with the first name "Drew" being larger and more prominent than the last name "Koler".

Drew Koler  
Managing Member  
American Recycling Co., Ltd. (ARC)

Cc: Craig Butler, OEPA, Central Office  
Arthur "Art" Coleman, Jr., OEPA, Central Office  
Gerald Meyer, Growth Capital Corp.  
Dan Bickley, ARC  
Tom Weber, ARC

Enclosures

7471 Tyler Boulevard • Mentor, Ohio 44060  
(216) 946-2221 • FAX (216) 946-0045

December 6, 1994

Mr. Craig W. Butler  
Ohio EPA  
Division of Hazardous Waste Management  
P. O. Box 1049  
1800 Watermark Drive  
Columbus, OH 43266-0149

Dear Craig:

It was a pleasure to finally meet you at the OEPA Columbus office on November 30th after discussing the Ohio Green Lights Program and fluorescent lighting ballast/ lamp disposal and recycling over the phone the past couple of months. Colleen and I were very impressed with the knowledge and support that you, Jim Braun, and Art Coleman provided at the meeting. We want to reemphasize that we share your concerns and will continue to team with the Ohio EPA to provide environmentally safe and cost effective fluorescent ballast/ lamp disposal and recycling services for our customers.

Thanks again for following up on the permit status of USA Lights ( a potential ally of ours for lamp recycling ) and providing information on a new USEPA proposal that may regulate PCB ballast "potting" compound.

Sincerely,



Drew R. Koler

cc: Jim Braun, OEPA-DAPC  
Arthur L. Coleman, OEPA-DSHWM  
Colleen M. Day, ARC, Ltd.



State of Ohio Environmental Protection Agency

STREET ADDRESS:

1800 WaterMark Drive  
Columbus, OH 43215-1099

TELE: (614) 844-3020 FAX: (614) 544-2329

MAILING ADDRESS:

P.O. Box 1049  
Columbus, OH 43216-1049

September 16, 1996

Brian R. Golab, Environmental Manager  
Recyclights, Inc.  
401 West 86th Street  
Minneapolis, MN 55420-2707

Dear Mr. Golab:

Recyclights requested the Ohio EPA to review its latest mercury recycling plan (August 23, 1996). We reviewed the plan and offer the following comments.

To simplify the handling and processing of its customers' mercury-containing items, Recyclights has developed several mercury recycling categories (a to h). We previously provided Recyclights written responses on some of these categories. We clarified that Ohio does not consider mercury lamps and mercury-containing electronic devices (see our February 16, 1996 letter) hazardous wastes if a business has them reclaimed (As stated in Table 1, OAC rule 3745-51-02). Ohio evaluates mercury-containing items according to the standards in OAC Chapter 3745-51.

Since the mercury categories Recyclights selected are broad in scope, we would need information from Recyclights on each item, not just examples, regarding the type of mercury unit, and how Recyclights will manage or process it, to determine whether it is exempt from or subject to Ohio's hazardous waste requirements. Therefore, this response is specific to those items specifically referenced in Recyclights letter. We feel this clarification is necessary to allow Recyclights to adopt its mercury handling policy accordingly.

- **Thermostats, glass and metal switches, relays, and ampules (Electric Devices).** We consider glass and metal switches, relays and ampules (from electric devices) either by-products or commercial products, depending on whether they are unused, off-spec, or used. According to Table I in OAC 3745-51-02, by-products exhibiting a hazardous waste characteristic or commercial (chemical) products are not wastes if Recyclights has them reclaimed. Currently, the same position applies to mercury thermostats. But once Ohio's adopts the Universal Waste Rule(UWR), Recyclights must manage the thermostats under Ohio's UWR standards. If Recyclights intends to dispose of any of these items, Recyclights must characterize them to determine whether they are hazardous wastes. If these items are not hazardous wastes, Ohio does not regulate them under its hazardous waste standards.
- **Thermometers, gauges, manometers, barometers, sphygmomanometers and haumameters (Mercury Column Devices).** These are either commercial products or by-products. If Recyclights has them reclaimed, Ohio does not consider them wastes. Recyclights must characterize these items if they intend to dispose of them.
- **Dialyzer and/or bougie tubes (Scientific/Medical Testing Devices).** Ohio considers these spent materials. They are wastes if Recyclights reclaims them. [See "Batteries" below].
- **Dental Amalgams.** We classify dental amalgams as scrap metal. If Recyclights reclaims dental amalgam, we do not consider the amalgam subject to our hazardous waste requirements.

Brian R. Golab, Environmental Manager  
Recyclights, Inc.  
September 16, 1996  
Page 2

- **Batteries (flashlight type).** Currently, if Recyclights stores batteries at its facility that are hazardous wastes before they recycle them, they must comply with the requirements in OAC rule 3745-51-06 (C)(1). Basically, this means that Recyclights must obtain a hazardous waste storage permit. If, on the other hand, Recyclights recycles the batteries without storing them before recycling, it will not need a hazardous waste permit but must comply with the requirements in OAC rule 3745-51-06 (C)(2). Basically, these are notification and manifest processing requirements. (See attachment). Ohio will require Recyclights to manage these types of batteries under its UWR requirements once Ohio adopts them.
- **Bullets (*Miscellaneous Items Contaminated with Mercury*).** Based on Recyclights description, we consider the bullet castings scrap metal. [see "Dental Amalgam"].
- **Mercury Laden Powder (from other lamp recyclers).** Ohio considers this material to be either a by-product of commercial (chemical) product.
- **File, wood, metal, sheetrock, soil, rags, and PPE (*Mercury Debris*).** We need more information on the source, types, and composition of these items. Some of these items could be contaminated with listed hazardous wastes. Some may be spent materials, not by-products or commercial products. We suggest that Recyclights carefully evaluate these items before making a decision whether or not to accept and recycle them. If necessary, contact us for assistance.

Again, if you need additional assistance, contact either me at (614)644-2934 or Jeff Mayhugh at (614)644-2950.

Sincerely,

*Arthur L. Coleman, Jr.*

Arthur L. Coleman, Jr.  
Technical Support Unit  
Division of Hazardous Waste Management

op61ALC:ba.g:gdhll

Attachment

cc: Wendy Miller, TSU, DHWM  
Lundy Adelsberger, DHWM, CDO

American Recycling Company  
3203 West 71<sup>st</sup> St., Cleveland  
OHD000720110  
March 12, 2001

Sony Digital Camera  
photos taken by Sherry Slone



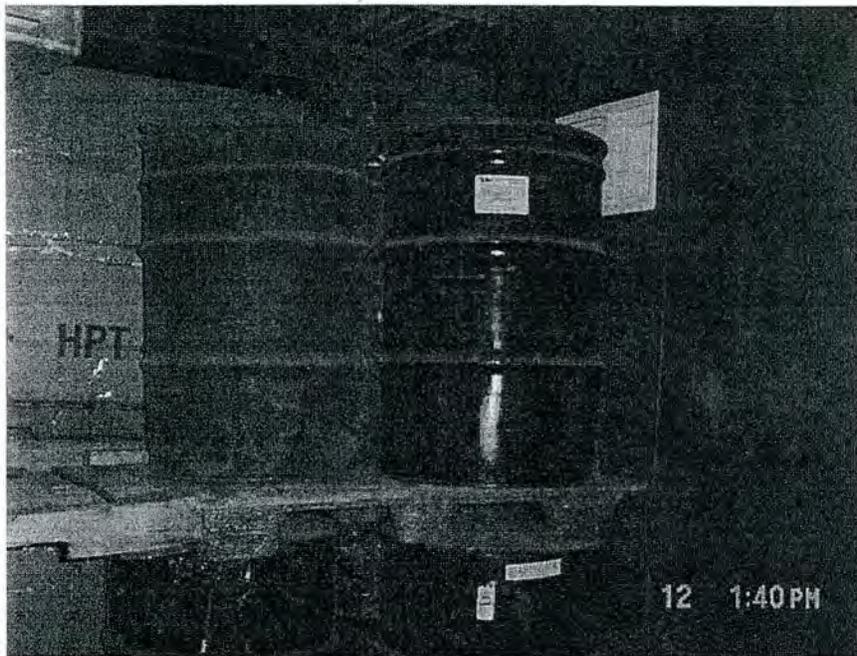
#02  
Drums of phosphor powder  
Stored along the west wall of the  
warehouse



#03  
Drums of phosphor powder  
Gaylords of capacitors  
Stored along west side of warehouse



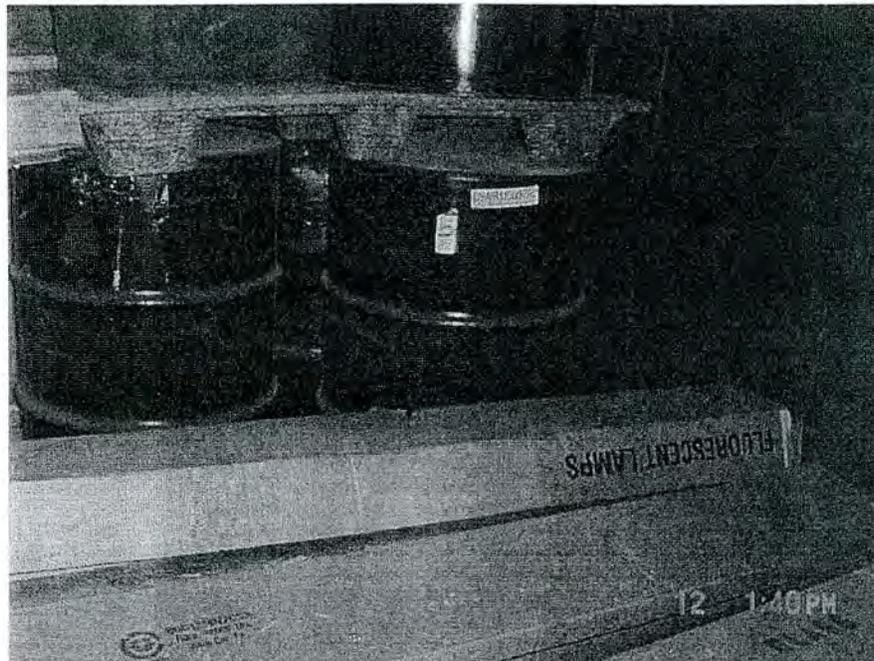
#04  
Phosphor powder  
West side of warehouse



#05  
Used solvent from previous  
facility  
East side of warehouse



#06  
Used solvent from  
previous facility



#07  
'PCB Ballast'



#08  
'Non PCB debris'

#9  
Southeast corner of process room  
'PCB' ballasts





#10  
Drums of PCB wastes in southeast corner of  
process room



#11  
Hazardous waste  
labels on PCB drums



#12  
Box of capacitors



## MEMORANDUM

To: (File)

From: Elissa Miller (Reviewer); Ohio EPA Legal Office.

Date: January 24, 2023

These files were reviewed to determine whether records contained herein are confidential or otherwise exempt from the disclosure obligations of Ohio Revised Code (ORC) 149.43

**X** **All files are public**

No records were removed based on this review.

       **Some files are not public**

Records were removed or redacted for the reasons given below:

- Attorney- Client Privilege**, State ex rel. Leslie v. Ohio Hous. Fin. Agency, 105 Ohio St.3d 261, 265 (2005).
- **Attorney Work Product**, Squire, Sanders & Dempsey, L.L.P. v. Givaudan Flavors Corp., 127 Ohio St.3d 161 (2010).
- **Confidential Law Enforcement Investigatory Records**, ORC 149.43(A)(1)(h).
- **Social Security Numbers**, State ex rel. Office of Montgomery County Pub. Defender v. Siroki, 108 Ohio St.3d 207 (2006).
- **Release Otherwise Prohibited by Law**, (i.e. trade secret, infrastructure and security records, etc.), ORC 149.43(A)(1)(v).
- Other Specified Reason:**

       **All files are confidential**

Should you have any questions regarding this issue, please contact Ohio EPA's Office of Legal Services.

(This memorandum is to remain visibly attached to this file.)

# **DLZ Laboratories, Inc.**

**Laboratory Number C1F0263**

## **Ohio Environmental Protection Agency**

**July 25, 2001**

**DLZ**  
**Laboratories,**  
**Inc.**

6121 Huntley Road  
Columbus, Ohio 43229  
(614) 848-4333  
(614) 841-0818

RECEIVED  
JUL 25 2001  
OHIO EPA NEDO

RECEIVED  
[REDACTED]  
OHIO EPA NEDO



# INVOICE

**Invoice To:**

Eric Schultz  
Ohio EPA Division of Haz Waste  
122 S. Front St  
Columbus, OH 43215

**Invoice Number**

1070216-8696-01

**Remit To:**

Accounts Receivable  
DLZ Laboratories - Columbus  
6121 Huntley Road  
Columbus, OH 43229

**Invoiced On:**

07/24/01

**PO Number**

Z94013

**Received**

06/29/01

**Project**

ARC (Cuyahoga County)

**Client**

Gunars Zikmanis  
OEPA (NEDO)

**Terms**

NET 30

**Project Number**

DNE 010628-HW

**Automatic invoice created for C1F0263  
by Deborah Griffiths on 07/24/01**

**Project Manager**

Deborah Griffiths

**Work Order(s)**

C1F0263

Quantity	Analysis/Description	Matrix	Unit Cost	Extended Cost
<b>DLZ Laboratories - Columbus</b>				
3	8082 PCB [14 day]	Aqueous	\$45.00	\$135.00
4	8260B_Std_RDL [10 day]	Aqueous	\$90.00	\$360.00
14	Ag Total 6010B SL [10 day]	Solid	\$7.50	\$105.00
1	Ag Total ICP 6010B [10 day]	Aqueous	\$7.50	\$7.50
12	As Total 6010B SL [10 day]	Solid	\$7.50	\$90.00
2	As Total 6020 SL [10 day]	Solid	\$7.50	\$15.00
1	As Total ICPMS 6020 [10 day]	Aqueous	\$7.50	\$7.50
14	Ba Total 6010B SL [10 day]	Solid	\$7.50	\$105.00
1	Ba Total ICP 6010B [10 day]	Aqueous	\$7.50	\$7.50
14	Cd Total 6020 SL [10 day]	Solid	\$7.50	\$105.00
1	Cd Total ICPMS 6020 [10 day]	Aqueous	\$7.50	\$7.50
14	Cr Total 6010B SL [10 day]	Solid	\$7.50	\$105.00
1	Cr Total ICP 6010B [10 day]	Aqueous	\$7.50	\$7.50
14	Hg Total 7471A SL [10 day]	Solid	\$15.00	\$210.00
1	Hg, Total 7470A [10 day]	Aqueous	\$15.00	\$15.00
3	Ignitability-1010 [10 day]	Aqueous	\$25.00	\$75.00
1	Pb Total 6020 [10 day]	Aqueous	\$7.50	\$7.50
14	Pb Total 6020 SL [10 day]	Solid	\$7.50	\$105.00
1	Se Total 7740 [10 day]	Aqueous	\$7.50	\$7.50
14	Se Total 7740 SL [10 day]	Solid	\$7.50	\$105.00
14	Solids, Dry Weight [10 day]	Solid	\$0.00	\$0.00
14	TCLP Extraction [10 day]	Solid	\$0.00	\$0.00

7/26/01

**Additional Items**

1	Project #: DNW010628-HW	\$0.00	\$0.00
1	Samples received 6/29/01 results reported 7/24/01	\$0.00	\$0.00
14	TCLP Metals	\$75.00	\$1,050.00

---

**Invoice Total:      \$2,632.50**

**Total and TCLP Metals Concentration  
in Waste Phosphorus Powder (6/28/01)**

American Recycling Company  
Cleveland, OH

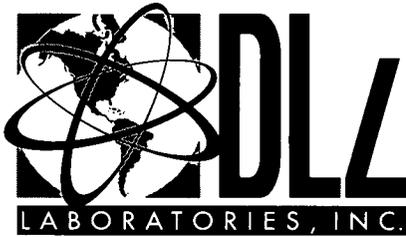
SAMPLE ID	Silver		Arsenic		Barium		Cadmium		Chromium		Mercury		Lead		Selenium	
	Total	TCLP	Total	TCLP	Total	TCLP	Total	TCLP	Total	TCLP	Total	TCLP	Total	TCLP	Total	TCLP
P-03					117		46.2				222	0.271	8.89			
P-07					94.4		61.1	0.107			149	0.294	13.1			
P-09					214		39.1		5.61		23.4	0.158	19.4		0.478	
P-14					168		8.87				70.2	0.191	6.47			
P-22			31.8		371		37.4		4.33		170	0.258	47			
P-25	3.44				562	10.4	197		9.11		2160	0.563	97.8		1.25	
P-25D	3.16				484	10.5	185		7.63		1670	0.555	101		1.65	
P-31					225		135		3.68		129	0.312	32.9			
P-34					241		107		5.64		169	0.268	38.4		0.631	
P-45			29.6		398		162		3.22		249	0.449	26.5		0.647	
P-51					207		37.7				141	0.259	8.79			
P-57					225		136				191	0.462	25.5		0.481	
P-60MS/MSD	8.79		137		843	14.1	94.8		6.88		1240	0.472	45.5		0.985	
SF-1					131		1.69				82.4	0.249	7.01			
EB-1	ND		ND		ND		ND		ND		ND		ND		ND	

Total Metal Concentrations are reported in mg/kg.

TCLP Metal concentrations are reported in mg/l.

ND = Non-detect and is reported in ug/kg.

"Blank boxes" are considered non-detect and reported in their respective units.



A DLZ Company  
ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES  
INDUSTRIAL HYGIENE

July 11, 2001

Attention: Gunars Zikmanis  
Ohio EPA (NEDO)  
2110 East Aurora Road  
Twinsburg, OH 44087

RE: C1F0263

Dear Mr. Zikmanis,

The procedures used to analyze environmental samples, specified on the enclosed analytical report comply with the USEPA method requirements. Sample identification, time and date of sample collection, and method of analysis are included on the analytical report. Enclosed is a copy of the Chain of Custody.

DLZ Laboratories, Inc., located in Columbus Ohio, follows strict QA/QC criteria for analytical testing. QA/QC documentation is retained by the laboratory for a period of ten years after completion of analysis. QA/QC reports are available to the client by request and is available for review at any time.

The following is a brief summary of QA/QC procedures at DLZ Laboratories, Inc.:

- Matrix spike and matrix spike duplicate analyses are performed at a rate of ten percent for inorganic analysis samples and at a rate of five percent for organic analysis sample by sample matrix. ( Aqueous and solid samples are treated separately.)
- Method and analytical blanks are analyzed at a rate of at least one per batch of samples unless required more frequently by the method.
- An independent known standard is analyzed at a rate of at least one per batch of samples.
- In all cases, DLZ Laboratories, Inc. follows the QA/QC requirements as stated in "40 CFR" and all applicable methods, including "SW-846", "Standard Methods" etc...
- Specific exceptions to DLZ's QA/QC procedures are listed on the last page of the report.

Thank you for allowing DLZ Laboratories, Inc. to assist you in your analytical testing needs. Should you have any further questions, do not hesitate to call.

Sincerely,

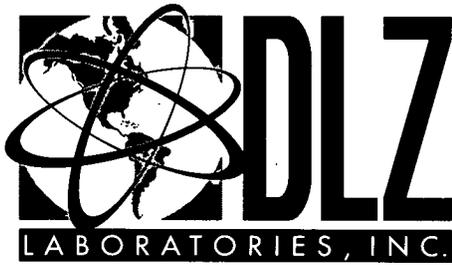
*Michael H. Davis*

Michael H. Davis, Ph.D.

QC Coordinator

**Ohio EPA  
C1F0263  
Table of Contents**

- 1.0 Case Narrative and Table of Contents**
- 2.0 Analytical and Quality Control report**
- 3.0 Chain of Custodies**
- 4.0 Inorganic Data**
- 5.0 Organic Data**
- 6.0 Metals Data**



**A DLZ Company**  
ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES  
INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
Contact: Gunars Zikmanis  
Address: 2110 East Aurora Road  
Twinsburg OH, 44087

Page: Page 1 of 70  
Project: ARC (Cuyahoga County)  
Project #: DNE 010628-HW  
Report Date: 07/18/01 11:02

Attached is our analytical report for the samples received for your project. Below is a list of your individual sample descriptions with our corresponding laboratory number. We also have enclosed a copy of the Chain of Custody that was received with your samples. Please note any unused portion of the samples may be discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department at the phone number below.

### Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
F0263-01	P-03	Solid	06/28/01 15:40	06/29/01 08:30
C1F0263-02	P-07	Solid	06/28/01 15:45	06/29/01 08:30
C1F0263-03	P-09	Solid	06/28/01 15:50	06/29/01 08:30
C1F0263-04	P-14	Solid	06/28/01 15:54	06/29/01 08:30
C1F0263-05	P-22	Solid	06/28/01 16:13	06/29/01 08:30
C1F0263-06	P-25	Solid	06/28/01 16:25	06/29/01 08:30
C1F0263-07	P-25-D	Solid	06/28/01 16:25	06/29/01 08:30
C1F0263-08	P-31	Solid	06/28/01 16:34	06/29/01 08:30
C1F0263-09	P-34	Solid	06/28/01 16:40	06/29/01 08:30
C1F0263-10	P-45	Solid	06/28/01 17:00	06/29/01 08:30
C1F0263-11	P-51	Solid	06/28/01 17:05	06/29/01 08:30
C1F0263-12	P-57	Solid	06/28/01 17:10	06/29/01 08:30
C1F0263-13	P-60 MS/MSD	Solid	06/28/01 17:12	06/29/01 08:30
C1F0263-14	EB-1	Aqueous	06/28/01 17:00	06/29/01 08:30
C1F0263-15	SF-1	Solid	06/28/01 17:20	06/29/01 08:30
C1F0263-16	S-04	Aqueous	06/28/01 11:45	06/29/01 08:30
C1F0263-17	S-05	Aqueous	06/28/01 11:58	06/29/01 08:30





**A DLZ Company**  
ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES  
INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
Contact: Gunars Zikmanis  
Address: 2110 East Aurora Road  
Twinsburg OH, 44087

Page: Page 2 of 70  
Project: ARC (Cuyahoga County)  
Project #: DNE 010628-HW  
Report Date: 07/18/01 11:02

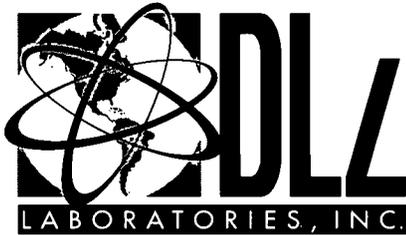
Attached is our analytical report for the samples received for your project. Below is a list of your individual sample descriptions with our corresponding laboratory number. We also have enclosed a copy of the Chain of Custody that was received with your samples. Please note any unused portion of the samples may be discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department at the phone number below.

### Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
F0263-18	S-08	Aqueous	06/28/01 12:09	06/29/01 08:30
C1F0263-19	Trip Blank	Aqueous	06/28/01 00:00	06/29/01 08:30





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 ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES  
 INDUSTRIAL HYGIENE

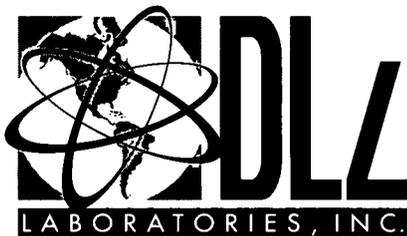
Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

Page: Page 3 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-01

Sample Description	Matrix	Sampled Date/Time	Received				
P-03	Solid	06/28/01 15:40	06/29/01				
Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
<b>Metals by EPA 6000/7000 Series Methods</b>							
Silver	ND	2.49	mg/kg dry	EPA 6010B	07/15/01 22:39	EAJ	
Arsenic	ND	24.9	mg/kg dry	EPA 6010B	07/15/01 22:39	EAJ	A-01
Barium	117	6.22	mg/kg dry	EPA 6010B	07/15/01 22:39	EAJ	
Cadmium	46.2	4.98	mg/kg dry	EPA 6020	07/12/01 18:16	EAJ	
Chromium	ND	2.49	mg/kg dry	EPA 6010B	07/15/01 22:39	EAJ	
Mercury	222	41.7	mg/kg dry	EPA 7471A	07/15/01 14:54	EAJ	
Lead	8.89	0.498	mg/kg dry	EPA 6020	07/09/01 14:54	EAJ	
Selenium	ND	0.498	mg/kg dry	EPA 7740	07/09/01 14:58	EAJ	
<b>TCLP Metals by 6000/7000 Series Methods</b>							
Silver	ND	0.500	mg/l	EPA 6010B	07/10/01 21:22	EAJ	
Arsenic	ND	0.500	mg/l	EPA 6010B	07/10/01 21:22	EAJ	
Barium	ND	10.0	mg/l	EPA 6010B	07/10/01 21:22	EAJ	
Cadmium	ND	0.100	mg/l	EPA 6010B	07/10/01 21:22	EAJ	
Chromium	ND	0.500	mg/l	EPA 6010B	07/10/01 21:22	EAJ	
Mercury	0.271	0.020	mg/l	EPA 7470A	07/11/01 13:20	EAJ	
Lead	ND	0.500	mg/l	EPA 6010B	07/10/01 21:22	EAJ	
Selenium	ND	0.100	mg/l	EPA 6010B	07/10/01 21:22	EAJ	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>							
% Solids	100	%		% calculation	07/02/01 11:32	ESF	
<b>TCLP Extraction by EPA 1311</b>							
TCLP Filterable Solids	100.25	g		EPA 1311	07/06/01 08:06	SRS	

Reportable Detection Limit



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 ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES  
 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

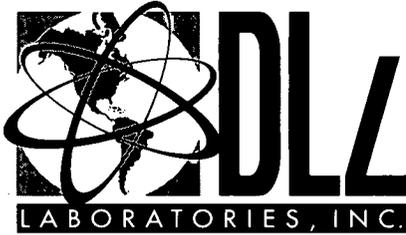
Page: Page 4 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-02

Sample Description	Matrix	Sampled Date/Time	Received
P-07	Solid	06/28/01 15:45	06/29/01

Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
<b>Metals by EPA 6000/7000 Series Methods</b>							
Silver	ND	2.44	mg/kg dry	EPA 6010B	07/15/01 23:19	EAJ	
Arsenic	ND	24.4	mg/kg dry	EPA 6010B	07/15/01 23:19	EAJ	A=01
Barium	94.4	6.10	mg/kg dry	EPA 6010B	07/15/01 23:19	EAJ	
Cadmium	61.1	4.93	mg/kg dry	EPA 6020	07/12/01 18:34	EAJ	
Chromium	ND	2.44	mg/kg dry	EPA 6010B	07/15/01 23:19	EAJ	
Mercury	149	36.2	mg/kg dry	EPA 7471A	07/15/01 14:57	EAJ	
Lead	13.1	0.493	mg/kg dry	EPA 6020	07/09/01 15:23	EAJ	
Selenium	ND	0.493	mg/kg dry	EPA 7740	07/09/01 15:36	EAJ	
<b>TCLP Metals by 6000/7000 Series Methods</b>							
Silver	ND	0.500	mg/l	EPA 6010B	07/10/01 21:50	EAJ	
Arsenic	ND	0.500	mg/l	EPA 6010B	07/10/01 21:50	EAJ	
Barium	ND	10.0	mg/l	EPA 6010B	07/10/01 21:50	EAJ	
Cadmium	0.107	0.100	mg/l	EPA 6010B	07/10/01 21:50	EAJ	
Chromium	ND	0.500	mg/l	EPA 6010B	07/10/01 21:50	EAJ	
Mercury	0.294	0.020	mg/l	EPA 7470A	07/11/01 13:24	EAJ	
Lead	ND	0.500	mg/l	EPA 6010B	07/10/01 21:50	EAJ	
Selenium	ND	0.100	mg/l	EPA 6010B	07/10/01 21:50	EAJ	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>							
% Solids	100		%	% calculation	07/02/01 11:32	ESF	
<b>TCLP Extraction by EPA 1311</b>							
TCLP Filterable Solids	100.38		g	EPA 1311	07/06/01 08:06	SRS	

Reportable Detection Limit



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 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

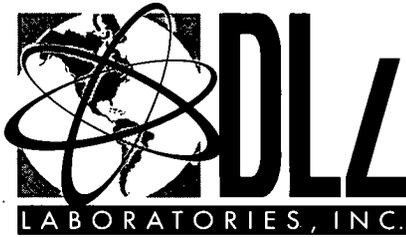
Page: Page 5 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
P:09	Solid	06/28/01 15:50	06/29/01

Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
<b>Metals by EPA 6000/7000 Series Methods</b>							
Silver	ND	2.51	mg/kg dry	EPA 6010B	07/15/01 23:24	EAJ	
Arsenic	ND	25.1	mg/kg dry	EPA 6010B	07/15/01 23:24	EAJ	A:01
Barium	214	6.28	mg/kg dry	EPA 6010B	07/15/01 23:24	EAJ	
Cadmium	39.1	0.478	mg/kg dry	EPA 6020	07/09/01 15:27	EAJ	
Chromium	5.61	2.51	mg/kg dry	EPA 6010B	07/15/01 23:24	EAJ	
Mercury	23.4	7.46	mg/kg dry	EPA 7471A	07/15/01 15:45	EAJ	
Lead	19.4	0.478	mg/kg dry	EPA 6020	07/09/01 15:27	EAJ	
Selenium	0.478	0.478	mg/kg dry	EPA 7740	07/09/01 15:42	EAJ	
<b>TCLP Metals by 6000/7000 Series Methods</b>							
Silver	ND	0.500	mg/l	EPA 6010B	07/10/01 21:56	EAJ	
Arsenic	ND	0.500	mg/l	EPA 6010B	07/10/01 21:56	EAJ	
Barium	ND	10.0	mg/l	EPA 6010B	07/10/01 21:56	EAJ	
Cadmium	ND	0.100	mg/l	EPA 6010B	07/10/01 21:56	EAJ	
Chromium	ND	0.500	mg/l	EPA 6010B	07/10/01 21:56	EAJ	
Mercury	0.158	0.020	mg/l	EPA 7470A	07/11/01 13:25	EAJ	
Lead	ND	0.500	mg/l	EPA 6010B	07/10/01 21:56	EAJ	
Selenium	ND	0.100	mg/l	EPA 6010B	07/10/01 21:56	EAJ	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>							
% Solids	100	%		% calculation	07/02/01 11:32	ESF	
<b>TCLP Extraction by EPA 1311</b>							
TCLP Filterable Solids	100.01	g		EPA 1311	07/06/01 08:06	SRS	

Reportable Detection Limit



A DLZ Company  
 ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES  
 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

Page: Page 6 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
P-14	Solid	06/28/01 15:54	06/29/01

Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
<b>Metals by EPA 6000/7000 Series Methods</b>							
Silver	ND	2.50	mg/kg dry	EPA 6010B	07/15/01 23:30	EAJ	
Arsenic	ND	25.0	mg/kg dry	EPA 6010B	07/15/01 23:30	EAJ	A-01
Mercury	168	6.25	mg/kg dry	EPA 6010B	07/15/01 23:30	EAJ	
Cadmium	8.87	0.503	mg/kg dry	EPA 6020	07/09/01 15:31	EAJ	
Chromium	ND	2.50	mg/kg dry	EPA 6010B	07/15/01 23:30	EAJ	
Mercury	70.2	8.20	mg/kg dry	EPA 7471A	07/15/01 15:47	EAJ	
Lead	6.47	0.503	mg/kg dry	EPA 6020	07/09/01 15:31	EAJ	
Selenium	ND	0.503	mg/kg dry	EPA 7740	07/09/01 15:47	EAJ	
<b>TCLP Metals by 6000/7000 Series Methods</b>							
Silver	ND	0.500	mg/l	EPA 6010B	07/10/01 22:13	EAJ	
Arsenic	ND	0.500	mg/l	EPA 6010B	07/10/01 22:13	EAJ	
Barium	ND	10.0	mg/l	EPA 6010B	07/10/01 22:13	EAJ	
Cadmium	ND	0.100	mg/l	EPA 6010B	07/10/01 22:13	EAJ	
Chromium	ND	0.500	mg/l	EPA 6010B	07/10/01 22:13	EAJ	
Mercury	0.191	0.020	mg/l	EPA 7470A	07/11/01 13:26	EAJ	
Lead	ND	0.500	mg/l	EPA 6010B	07/10/01 22:13	EAJ	
Selenium	ND	0.100	mg/l	EPA 6010B	07/10/01 22:13	EAJ	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>							
% Solids	100	%		% calculation	07/02/01 11:32	ESF	
<b>TCLP Extraction by EPA 1311</b>							
TCLP Filterable Solids	100.11	g		EPA 1311	07/06/01 08:06	SRS	

Reportable Detection Limit



A DLZ Company  
 ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES  
 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

Page: Page 7 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
P-22	Solid	06/28/01 16:18	06/29/01

Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
<b>Metals by EPA 6000/7000 Series Methods</b>							
Silver	ND	2.50	mg/kg dry	EPA 6010B	07/15/01 23:36	EAJ	
Arsenic	31.8	25.0	mg/kg dry	EPA 6010B	07/15/01 23:36	EAJ	A-01
Barium	371	6.25	mg/kg dry	EPA 6010B	07/15/01 23:36	EAJ	
Cadmium	37.4	0.488	mg/kg dry	EPA 6020	07/09/01 15:35	EAJ	
Chromium	4.33	2.50	mg/kg dry	EPA 6010B	07/15/01 23:36	EAJ	
Mercury	170	37.9	mg/kg dry	EPA 7471A	07/15/01 15:03	EAJ	
Lead	47.0	0.488	mg/kg dry	EPA 6020	07/09/01 15:35	EAJ	
Selenium	ND	0.488	mg/kg dry	EPA 7740	07/10/01 07:28	EAJ	
<b>TCLP Metals by 6000/7000 Series Methods</b>							
Silver	ND	0.500	mg/l	EPA 6010B	07/10/01 22:19	EAJ	
Arsenic	ND	0.500	mg/l	EPA 6010B	07/10/01 22:19	EAJ	
Barium	ND	10.0	mg/l	EPA 6010B	07/10/01 22:19	EAJ	
Cadmium	ND	0.100	mg/l	EPA 6010B	07/10/01 22:19	EAJ	
Chromium	ND	0.500	mg/l	EPA 6010B	07/10/01 22:19	EAJ	
Mercury	0.258	0.020	mg/l	EPA 7470A	07/11/01 13:28	EAJ	
Lead	ND	0.500	mg/l	EPA 6010B	07/10/01 22:19	EAJ	
Selenium	ND	0.100	mg/l	EPA 6010B	07/10/01 22:19	EAJ	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>							
% Solids	100	%		% calculation	07/02/01 11:32	ESF	
<b>TCLP Extraction by EPA 1311</b>							
TCLP Filterable Solids	100.04	g		EPA 1311	07/06/01 08:06	SRS	

Reportable Detection Limit



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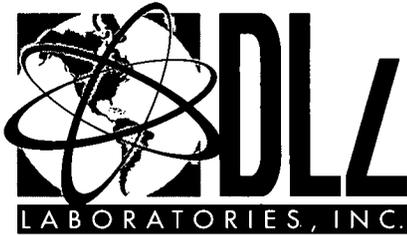
Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

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 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-06

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>				
P-25	Solid	06/28/01 16:25	06/29/01				
Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
<b>Metals by EPA 6000/7000 Series Methods</b>							
Silver	3.44	2.48	mg/kg dry	EPA 6010B	07/15/01 23:42	EAJ	
Arsenic	ND	24.8	mg/kg dry	EPA 6010B	07/15/01 23:42	EAJ	A-01
Mercury	562	6.19	mg/kg dry	EPA 6010B	07/15/01 23:42	EAJ	
Cadmium	197	4.81	mg/kg dry	EPA 6020	07/12/01 18:49	EAJ	
Chromium	9.11	2.48	mg/kg dry	EPA 6010B	07/15/01 23:42	EAJ	
Mercury	2160	202	mg/kg dry	EPA 7471A	07/15/01 15:48	EAJ	
Lead	97.8	4.81	mg/kg dry	EPA 6020	07/12/01 18:49	EAJ	
Selenium	1.25	0.481	mg/kg dry	EPA 7740	07/09/01 15:58	EAJ	
<b>TCLP Metals by 6000/7000 Series Methods</b>							
Silver	ND	0.500	mg/l	EPA 6010B	07/10/01 22:24	EAJ	
Arsenic	ND	0.500	mg/l	EPA 6010B	07/10/01 22:24	EAJ	
Barium	10.4	10.0	mg/l	EPA 6010B	07/10/01 22:24	EAJ	
Cadmium	ND	0.100	mg/l	EPA 6010B	07/10/01 22:24	EAJ	
Chromium	ND	0.500	mg/l	EPA 6010B	07/10/01 22:24	EAJ	
Mercury	0.563	0.020	mg/l	EPA 7470A	07/11/01 13:29	EAJ	
Lead	ND	0.500	mg/l	EPA 6010B	07/10/01 22:24	EAJ	
Selenium	ND	0.100	mg/l	EPA 6010B	07/10/01 22:24	EAJ	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>							
% Solids	100	%		% calculation	07/02/01 11:32	ESF	
<b>TCLP Extraction by EPA 1311</b>							
TCLP Filterable Solids	99.99	g		EPA 1311	07/06/01 08:06	SRS	

Reportable Detection Limit



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Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

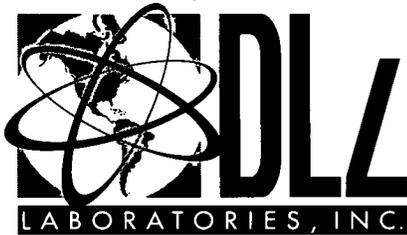
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 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-07

Sample Description	Matrix	Sampled Date/Time	Received
P-25-D	Solid	06/28/01 16:25	06/29/01

Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
<b>Metals by EPA 6000/7000 Series Methods</b>							
Silver	3.16	2.39	mg/kg dry	EPA 6010B	07/15/01 23:47	EAJ	
Arsenic	ND	23.9	mg/kg dry	EPA 6010B	07/15/01 23:47	EAJ	A-01
Barium	484	5.98	mg/kg dry	EPA 6010B	07/15/01 23:47	EAJ	
Cadmium	185	5.00	mg/kg dry	EPA 6020	07/12/01 19:04	EAJ	
Chromium	7.63	2.39	mg/kg dry	EPA 6010B	07/15/01 23:47	EAJ	
Mercury	1670	198	mg/kg dry	EPA 7471A	07/15/01 15:49	EAJ	
Lead	101	5.00	mg/kg dry	EPA 6020	07/12/01 19:04	EAJ	
Selenium	1.65	0.500	mg/kg dry	EPA 7740	07/09/01 16:03	EAJ	
<b>TCLP Metals by 6000/7000 Series Methods</b>							
Silver	ND	0.500	mg/l	EPA 6010B	07/10/01 22:30	EAJ	
Arsenic	ND	0.500	mg/l	EPA 6010B	07/10/01 22:30	EAJ	
Barium	10.5	10.0	mg/l	EPA 6010B	07/10/01 22:30	EAJ	
Cadmium	ND	0.100	mg/l	EPA 6010B	07/10/01 22:30	EAJ	
Chromium	ND	0.500	mg/l	EPA 6010B	07/10/01 22:30	EAJ	
Mercury	0.555	0.020	mg/l	EPA 7470A	07/11/01 13:30	EAJ	
Lead	ND	0.500	mg/l	EPA 6010B	07/10/01 22:30	EAJ	
Selenium	ND	0.100	mg/l	EPA 6010B	07/10/01 22:30	EAJ	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>							
% Solids	100	%		% calculation	07/02/01 11:32	ESF	
<b>TCLP Extraction by EPA 1311</b>							
TCLP Filterable Solids	100.02	g		EPA 1311	07/06/01 08:06	SRS	

Reportable Detection Limit



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Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

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 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-08

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
P-31	Solid	06/28/01 16:34	06/29/01

Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
<b>Metals by EPA 6000/7000 Series Methods</b>							
Silver	ND	2.51	mg/kg dry	EPA 6010B	07/15/01 23:53	EAJ	
Arsenic	ND	25.1	mg/kg dry	EPA 6010B	07/15/01 23:53	EAJ	A-01
Mercury	225	6.28	mg/kg dry	EPA 6010B	07/15/01 23:53	EAJ	
Cadmium	135	4.93	mg/kg dry	EPA 6020	07/12/01 19:08	EAJ	
Chromium	3.68	2.51	mg/kg dry	EPA 6010B	07/15/01 23:53	EAJ	
Mercury	129	37.3	mg/kg dry	EPA 7471A	07/15/01 15:07	EAJ	
Lead	32.9	0.493	mg/kg dry	EPA 6020	07/09/01 15:45	EAJ	
Selenium	ND	0.493	mg/kg dry	EPA 7740	07/09/01 16:09	EAJ	
<b>TCLP Metals by 6000/7000 Series Methods</b>							
Silver	ND	0.500	mg/l	EPA 6010B	07/10/01 22:36	EAJ	
Arsenic	ND	0.500	mg/l	EPA 6010B	07/10/01 22:36	EAJ	
Barium	ND	10.0	mg/l	EPA 6010B	07/10/01 22:36	EAJ	
Cadmium	ND	0.100	mg/l	EPA 6010B	07/10/01 22:36	EAJ	
Chromium	ND	0.500	mg/l	EPA 6010B	07/10/01 22:36	EAJ	
Mercury	0.312	0.020	mg/l	EPA 7470A	07/11/01 13:32	EAJ	
Lead	ND	0.500	mg/l	EPA 6010B	07/10/01 22:36	EAJ	
Selenium	ND	0.100	mg/l	EPA 6010B	07/10/01 22:36	EAJ	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>							
% Solids	100		%	% calculation	07/02/01 11:32	ESF	
<b>TCLP Extraction by EPA 1311</b>							
TCLP Filterable Solids	101.74		g	EPA 1311	07/06/01 08:06	SRS	

Reportable Detection Limit



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 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

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 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-09

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
P-34	Solid	06/28/01 16:40	06/29/01

Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
<b>Metals by EPA 6000/7000 Series Methods</b>							
Silver	ND	2.46	mg/kg dry	EPA 6010B	07/15/01 23:59	EAJ	
Arsenic	ND	24.6	mg/kg dry	EPA 6010B	07/15/01 23:59	EAJ	A-01
Mercury	0.241	6.16	mg/kg dry	EPA 6010B	07/15/01 23:59	EAJ	
Cadmium	107	4.85	mg/kg dry	EPA 6020	07/12/01 19:12	EAJ	
Chromium	5.64	2.46	mg/kg dry	EPA 6010B	07/15/01 23:59	EAJ	
Mercury	169	41.7	mg/kg dry	EPA 7471A	07/15/01 15:08	EAJ	
Lead	38.4	0.485	mg/kg dry	EPA 6020	07/09/01 15:49	EAJ	
Selenium	0.631	0.485	mg/kg dry	EPA 7740	07/09/01 16:14	EAJ	
<b>TCLP Metals by 6000/7000 Series Methods</b>							
Silver	ND	0.500	mg/l	EPA 6010B	07/10/01 22:42	EAJ	
Arsenic	ND	0.500	mg/l	EPA 6010B	07/10/01 22:42	EAJ	
Barium	ND	10.0	mg/l	EPA 6010B	07/10/01 22:42	EAJ	
Cadmium	ND	0.100	mg/l	EPA 6010B	07/10/01 22:42	EAJ	
Chromium	ND	0.500	mg/l	EPA 6010B	07/10/01 22:42	EAJ	
Mercury	0.268	0.020	mg/l	EPA 7470A	07/11/01 13:52	EAJ	
Lead	ND	0.500	mg/l	EPA 6010B	07/10/01 22:42	EAJ	
Selenium	ND	0.100	mg/l	EPA 6010B	07/10/01 22:42	EAJ	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>							
% Solids	100	%		% calculation	07/02/01 11:32	ESF	
<b>TCLP Extraction by EPA 1311</b>							
TCLP Filterable Solids	101.19	g		EPA 1311	07/06/01 08:06	SRS	

Reportable Detection Limit



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Client Name: OEPA (NEDO)  
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 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

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 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-10

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>				
P-45	Solid	06/28/01 17:00	06/29/01				
Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
<b>Metals by EPA 6000/7000 Series Methods</b>							
Silver	ND	2.53	mg/kg dry	EPA 6010B	07/16/01 00:04	EAJ	
Arsenic	29.6	25.3	mg/kg dry	EPA 6010B	07/16/01 00:04	EAJ	A-01
Mercury	398	6.31	mg/kg dry	EPA 6010B	07/16/01 00:04	EAJ	
Cadmium	162	4.98	mg/kg dry	EPA 6020	07/12/01 19:15	EAJ	
Chromium	3.22	2.53	mg/kg dry	EPA 6010B	07/16/01 00:04	EAJ	
Mercury	249	38.9	mg/kg dry	EPA 7471A	07/15/01 15:09	EAJ	
Lead	26.5	0.498	mg/kg dry	EPA 6020	07/09/01 15:53	EAJ	
Selenium	0.647	0.498	mg/kg dry	EPA 7740	07/09/01 16:19	EAJ	
<b>TCLP Metals by 6000/7000 Series Methods</b>							
Silver	ND	0.500	mg/l	EPA 6010B	07/10/01 22:47	EAJ	
Arsenic	ND	0.500	mg/l	EPA 6010B	07/10/01 22:47	EAJ	
Barium	ND	10.0	mg/l	EPA 6010B	07/10/01 22:47	EAJ	
Cadmium	ND	0.100	mg/l	EPA 6010B	07/10/01 22:47	EAJ	
Chromium	ND	0.500	mg/l	EPA 6010B	07/10/01 22:47	EAJ	
Mercury	0.449	0.020	mg/l	EPA 7470A	07/11/01 13:53	EAJ	
Lead	ND	0.500	mg/l	EPA 6010B	07/10/01 22:47	EAJ	
Selenium	ND	0.100	mg/l	EPA 6010B	07/10/01 22:47	EAJ	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>							
% Solids	99	%		% calculation	07/02/01 11:32	ESF	
<b>TCLP Extraction by EPA 1311</b>							
TCLP Filterable Solids	100.13	g		EPA 1311	07/06/01 08:06	SRS	

Reportable Detection Limit



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 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

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 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-11

Sample Description	Matrix	Sampled Date/Time	Received
P-51	Solid	06/28/01 17:05	06/29/01

Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
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**Metals by EPA 6000/7000 Series Methods**

Silver	ND	2.49	mg/kg dry	EPA 6010B	07/16/01 00:21	EAJ	
Arsenic	ND	5.00	mg/kg dry	EPA 6020	07/12/01 19:19	EAJ	
Mercury	207	6.22	mg/kg dry	EPA 6010B	07/16/01 00:21	EAJ	
Cadmium	37.7	0.500	mg/kg dry	EPA 6020	07/09/01 16:16	EAJ	
Chromium	ND	2.49	mg/kg dry	EPA 6010B	07/16/01 00:21	EAJ	
Mercury	141	36.8	mg/kg dry	EPA 7471A	07/15/01 15:11	EAJ	
Lead	8.79	0.500	mg/kg dry	EPA 6020	07/09/01 16:16	EAJ	
Selenium	ND	0.500	mg/kg dry	EPA 7740	07/09/01 16:36	EAJ	

**TCLP Metals by 6000/7000 Series Methods**

Silver	ND	0.500	mg/l	EPA 6010B	07/10/01 22:53	EAJ	
Arsenic	ND	0.500	mg/l	EPA 6010B	07/10/01 22:53	EAJ	
Barium	ND	10.0	mg/l	EPA 6010B	07/10/01 22:53	EAJ	
Cadmium	ND	0.100	mg/l	EPA 6010B	07/10/01 22:53	EAJ	
Chromium	ND	0.500	mg/l	EPA 6010B	07/10/01 22:53	EAJ	
Mercury	0.259	0.020	mg/l	EPA 7470A	07/11/01 13:55	EAJ	
Lead	ND	0.500	mg/l	EPA 6010B	07/10/01 22:53	EAJ	
Selenium	ND	0.100	mg/l	EPA 6010B	07/10/01 22:53	EAJ	

**Conventional Chemistry Parameters by APHA/EPA Methods**

% Solids	100	%	% calculation	07/02/01 11:32	ESF	
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**TCLP Extraction by EPA 1311**

TCLP Filterable Solids	100.62	g	EPA 1311	07/06/01 08:06	SRS	
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Reportable Detection Limit



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Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

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 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-12

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>				
P-57	Solid	06/28/01 17:10	06/29/01				
Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
<b>Metals by EPA 6000/7000 Series Methods</b>							
Silver	ND	2.45	mg/kg dry	EPA 6010B	07/16/01 00:27	EAJ	
Arsenic	ND	24.5	mg/kg dry	EPA 6010B	07/16/01 00:27	EAJ	A-01
Barium	225	6.13	mg/kg dry	EPA 6010B	07/16/01 00:27	EAJ	
Cadmium	136	4.81	mg/kg dry	EPA 6020	07/12/01 19:23	EAJ	
Chromium	ND	2.45	mg/kg dry	EPA 6010B	07/16/01 00:27	EAJ	
Mercury	191	41.7	mg/kg dry	EPA 7471A	07/15/01 15:17	EAJ	
Lead	25.5	0.481	mg/kg dry	EPA 6020	07/09/01 16:19	EAJ	
Selenium	0.481	0.481	mg/kg dry	EPA 7740	07/09/01 16:41	EAJ	
<b>TCLP Metals by 6000/7000 Series Methods</b>							
Silver	ND	0.500	mg/l	EPA 6010B	07/10/01 23:33	EAJ	
Arsenic	ND	0.500	mg/l	EPA 6010B	07/10/01 23:33	EAJ	
Barium	ND	10.0	mg/l	EPA 6010B	07/10/01 23:33	EAJ	
Cadmium	ND	0.100	mg/l	EPA 6010B	07/10/01 23:33	EAJ	
Chromium	ND	0.500	mg/l	EPA 6010B	07/10/01 23:33	EAJ	
Mercury	0.462	0.020	mg/l	EPA 7470A	07/11/01 13:59	EAJ	
Lead	ND	0.500	mg/l	EPA 6010B	07/10/01 23:33	EAJ	
Selenium	ND	0.100	mg/l	EPA 6010B	07/10/01 23:33	EAJ	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>							
% Solids	100	%		% calculation	07/02/01 11:32	ESF	
<b>TCLP Extraction by EPA 1311</b>							
TCLP Filterable Solids	100.25	g		EPA 1311	07/06/01 08:06	SRS	

Reportable Detection Limit



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 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

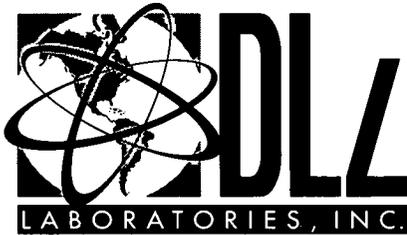
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 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-13

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
P-60 MS/MSD	Solid	06/28/01 17:12	06/29/01

<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
<b>Metals by EPA 6000/7000 Series Methods</b>							
Silver	8.79	2.46	mg/kg dry	EPA 6010B	07/16/01 00:33	EAJ	
Arsenic	137	24.6	mg/kg dry	EPA 6010B	07/16/01 00:33	EAJ	A-01
Barium	843	6.16	mg/kg dry	EPA 6010B	07/16/01 00:33	EAJ	
Cadmium	94.8	4.93	mg/kg dry	EPA 6020	07/12/01 19:26	EAJ	
Chromium	6.88	2.46	mg/kg dry	EPA 6010B	07/16/01 00:33	EAJ	
Mercury	1240	82.0	mg/kg dry	EPA 7471A	07/15/01 15:50	EAJ	
Lead	45.5	0.493	mg/kg dry	EPA 6020	07/09/01 16:23	EAJ	
Selenium	0.985	0.493	mg/kg dry	EPA 7740	07/09/01 16:47	EAJ	
<b>TCLP Metals by 6000/7000 Series Methods</b>							
Silver	ND	0.500	mg/l	EPA 6010B	07/10/01 23:39	EAJ	
Arsenic	ND	0.500	mg/l	EPA 6010B	07/10/01 23:39	EAJ	
Barium	14.1	10.0	mg/l	EPA 6010B	07/10/01 23:39	EAJ	
Cadmium	ND	0.100	mg/l	EPA 6010B	07/10/01 23:39	EAJ	
Chromium	ND	0.500	mg/l	EPA 6010B	07/10/01 23:39	EAJ	
Mercury	0.472	0.020	mg/l	EPA 7470A	07/11/01 14:01	EAJ	
Lead	ND	0.500	mg/l	EPA 6010B	07/10/01 23:39	EAJ	
Selenium	ND	0.100	mg/l	EPA 6010B	07/10/01 23:39	EAJ	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>							
% Solids	100	%		% calculation	07/02/01 11:32	ESF	
<b>TCLP Extraction by EPA 1311</b>							
TCLP Filterable Solids	100.05	g		EPA 1311	07/06/01 08:06	SRS	

Reportable Detection Limit



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 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

Page: Page 16 of 70  
 Project: ARC (Cuyahoga County)  
 \*Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-14

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
EB-1	Aqueous	06/28/01 17:00	06/29/01

<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
<b>Metals by EPA 6000/7000 Series Methods</b>							
Silver	ND	20.0	ug/l	EPA 6010B	07/04/01 18:33	EAJ	
Arsenic	ND	5.00	ug/l	EPA 6020	07/04/01 14:48	EAJ	
Mercury	ND	50.0	ug/l	EPA 6010B	07/04/01 18:33	EAJ	
Chromium	ND	5.00	ug/l	EPA 6020	07/04/01 14:48	EAJ	
Chromium	ND	15.0	ug/l	EPA 6010B	07/09/01 18:18	EAJ	
Mercury	ND	0.200	ug/l	EPA 7470A	07/03/01 08:17	EAJ	
Lead	ND	5.00	ug/l	EPA 6020	07/04/01 14:48	EAJ	
Selenium	ND	5.00	ug/l	EPA 7740	07/09/01 20:41	EAJ	

Reportable Detection Limit



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 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

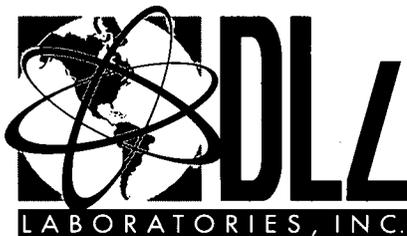
Page: Page 17 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-15

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
SF-1	Solid	06/28/01 17:20	06/29/01

Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
<b>Metals by EPA 6000/7000 Series Methods</b>							
Silver	ND	2.49	mg/kg dry	EPA 6010B	07/16/01 00:39	EAJ	
Arsenic	ND	4.85	mg/kg dry	EPA 6020	07/12/01 19:30	EAJ	
Chromium	131	6.22	mg/kg dry	EPA 6010B	07/16/01 00:39	EAJ	
Cadmium	1.69	0.485	mg/kg dry	EPA 6020	07/09/01 16:27	EAJ	
Chromium	ND	2.49	mg/kg dry	EPA 6010B	07/16/01 00:39	EAJ	
Mercury	82.4	7.58	mg/kg dry	EPA 7471A	07/15/01 15:57	EAJ	
Lead	7.01	0.485	mg/kg dry	EPA 6020	07/09/01 16:27	EAJ	
Selenium	ND	0.485	mg/kg dry	EPA 7740	07/09/01 16:52	EAJ	
<b>TCLP Metals by 6000/7000 Series Methods</b>							
Silver	ND	0.500	mg/l	EPA 6010B	07/10/01 23:44	EAJ	
Arsenic	ND	0.500	mg/l	EPA 6010B	07/10/01 23:44	EAJ	
Barium	ND	10.0	mg/l	EPA 6010B	07/10/01 23:44	EAJ	
Cadmium	ND	0.100	mg/l	EPA 6010B	07/10/01 23:44	EAJ	
Chromium	ND	0.500	mg/l	EPA 6010B	07/10/01 23:44	EAJ	
Mercury	0.249	0.020	mg/l	EPA 7470A	07/11/01 14:02	EAJ	
Lead	ND	0.500	mg/l	EPA 6010B	07/10/01 23:44	EAJ	
Selenium	ND	0.100	mg/l	EPA 6010B	07/10/01 23:44	EAJ	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>							
% Solids	100		%	% calculation	07/02/01 11:32	ESF	
<b>TCLP Extraction by EPA 1311</b>							
TCLP Filterable Solids	100.22		g	EPA 1311	07/06/01 08:06	SRS	

Reportable Detection Limit



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 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

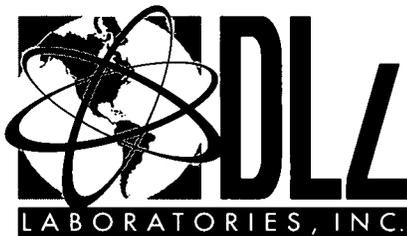
Page: Page 18 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-16

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
S-04	Aqueous	06/28/01 11:45	06/29/01

<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
<b>Polychlorinated Biphenyls by EPA Method 608</b>							
PCB-1016	ND	5.00	mg/kg	EPA.8082	07/11/01 18:39	RSG	
PCB-1221	ND	5.00	mg/kg	EPA 8082	07/11/01 18:39	RSG	
:B-1232	ND	5.00	mg/kg	EPA 8082	07/11/01 18:39	RSG	
:B-1242	54.2	5.00	mg/kg	EPA 8082	07/11/01 18:39	RSG	
PCB-1248	ND	5.00	mg/kg	EPA 8082	07/11/01 18:39	RSG	
PCB-1254	ND	5.00	mg/kg	EPA 8082	07/11/01 18:39	RSG	
PCB-1260	ND	5.00	mg/kg	EPA 8082	07/11/01 18:39	RSG	
<i>Surrogate: Tetrachloro-meta-xylene</i>	100 %	60-140		EPA 8082	07/11/01 18:39	RSG	
<i>Surrogate: Decachlorobiphenyl</i>	160 %	60-150		EPA 8082	07/11/01 18:39	RSG	S-GC
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
Dichlorodifluoromethane	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Chloromethane	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Vinyl chloride	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Bromomethane	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Chloroethane	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Trichlorofluoromethane	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Acrolein	ND	9520000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Acetone	ND	9520000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,1-Dichloroethene	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Methylene chloride	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Carbon disulfide	ND	9520000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Acrylonitrile	ND	9520000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
trans-1,2-Dichloroethene	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	

Reportable Detection Limit



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 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

Page: Page 19 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-16

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
S-04	Aqueous	06/28/01 11:45	06/29/01

<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
1,1-Dichloroethane	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Methyl acetate	ND	4760000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Ethyl ethyl ketone	ND	9520000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,1,2-Dichloropropane	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
cis-1,2-Dichloroethene	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Bromochloromethane	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Chloroform	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,1,1-Trichloroethane	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,1-Dichloropropene	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Carbon tetrachloride	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Benzene	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,2-Dichloroethane	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Trichloroethene	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,2-Dichloropropane	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Bromodichloromethane	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Dibromomethane	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
2-Chloroethyl vinyl ether	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
4-Methyl-2-pentanone	ND	4760000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
cis-1,3-Dichloropropene	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Toluene	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Ethyl methacrylate	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
trans-1,3-Dichloropropene	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,1,2-Trichloroethane	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	

Reportable Detection Limit



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 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

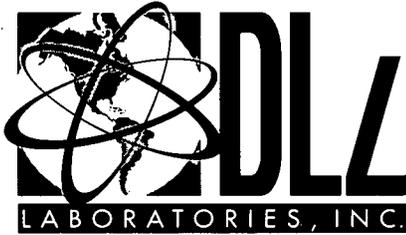
Page: Page 20 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-16

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
S-04	Aqueous	06/28/01 11:45	06/29/01

<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
2-Hexanone	ND	4760000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,3-Dichloropropane	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,1,2-Trichloroethane	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,1,1-Trichloroethane	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Ethylene dibromide	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Chlorobenzene	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Ethylbenzene	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,1,1,2-Tetrachloroethane	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
p,m-Xylene	1440000	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
o-Xylene	700000	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Styrene	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Isopropylbenzene	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Bromoform	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,1,2,2-Tetrachloroethane	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,2,3-Trichloropropane	ND	476000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
n-Propylbenzene	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Bromobenzene	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
2-Chlorotoluene	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,3,5-Trimethylbenzene	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
4-Chlorotoluene	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
tert-Butylbenzene	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,2,4-Trimethylbenzene	2930000	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
sec-Butylbenzene	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	

Reportable Detection Limit



A DLZ Company

ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES  
INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
Contact: Gunars Zikmanis  
Address: 2110 East Aurora Road  
Twinsburg OH, 44087

Page: Page 21 of 70  
Project: ARC (Cuyahoga County)  
Project #: DNE 010628-HW  
Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-16

Sample Description

Matrix  
Aqueous

Sampled Date/Time  
06/28/01 11:45

Received  
06/29/01

Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
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**Volatile Organic Compounds by EPA Method 8260B**

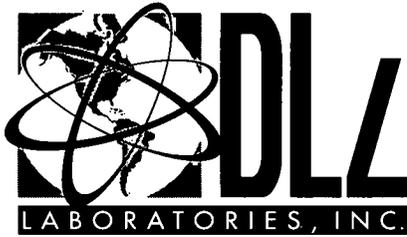
p-Isopropyltoluene	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,3-Dichlorobenzene	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
m-Dichlorobenzene	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
t-Butylbenzene	1150000	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,2-Dichlorobenzene	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,2-Dibromo-3-chloropropane	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,2,4-Trichlorobenzene	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Hexachlorobutadiene	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
Naphthalene	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	
1,2,3-Trichlorobenzene	ND	952000	ug/kg	EPA 8260B	07/10/01 16:28	DRB	

Surrogate: Dibromofluoromethane	90.8 %	80-120		EPA 8260B	07/10/01 16:28	DRB	
Surrogate: d4-1,2-Dichloroethane	110 %	80-120		EPA 8260B	07/10/01 16:28	DRB	
Surrogate: d8-Toluene	97.1 %	80-120		EPA 8260B	07/10/01 16:28	DRB	
Surrogate: Bromofluorobenzene	106 %	80-120		EPA 8260B	07/10/01 16:28	DRB	

**Physical Parameters by APHA/ASTM/EPA Methods**

Ignitability by Flashpoint	122	1 °F		EPA 1010	07/09/01 17:16	ESF	
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Reportable Detection Limit



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 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

Page: Page 22 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-17

Sample Description

S:053 Matrix Aqueous Sampled Date/Time 06/28/01 11:58 Received 06/29/01

Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
<b>Polychlorinated Biphenyls by EPA Method 608</b>							
PCB-1016	ND	5.00	mg/kg	EPA 8082	07/11/01 19:15	RSG	
PCB-1221	ND	5.00	mg/kg	EPA 8082	07/11/01 19:15	RSG	
B-1232	ND	5.00	mg/kg	EPA 8082	07/11/01 19:15	RSG	
B-1242	88.7	5.00	mg/kg	EPA 8082	07/11/01 19:15	RSG	
PCB-1248	ND	5.00	mg/kg	EPA 8082	07/11/01 19:15	RSG	
PCB-1254	ND	5.00	mg/kg	EPA 8082	07/11/01 19:15	RSG	
PCB-1260	ND	5.00	mg/kg	EPA 8082	07/11/01 19:15	RSG	
Surrogate: Tetrachloro-meta-xylene	130 %	60-140		EPA 8082	07/11/01 19:15	RSG	
Surrogate: Decachlorobiphenyl	150 %	60-150		EPA 8082	07/11/01 19:15	RSG	
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
Dichlorodifluoromethane	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Chloromethane	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Vinyl chloride	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Bromomethane	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Chloroethane	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Trichlorofluoromethane	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Acrolein	ND	39700000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Acetone	ND	39700000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
1,1-Dichloroethene	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Methylene chloride	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Carbon disulfide	ND	39700000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Acrylonitrile	ND	39700000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
trans-1,2-Dichloroethene	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	

Reportable Detection Limit



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 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

Page: Page 23 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-17

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
S-05	Aqueous	06/28/01 11:58	06/29/01

<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
1,1-Dichloroethane	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Vinyl acetate	ND	19800000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
thyl ethyl ketone	ND	39700000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
1,1-Dichloropropane	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
cis-1,2-Dichloroethene	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Bromochloromethane	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Chloroform	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
1,1,1-Trichloroethane	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
1,1-Dichloropropene	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Carbon tetrachloride	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Benzene	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
1,2-Dichloroethane	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Trichloroethene	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
1,2-Dichloropropane	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Bromodichloromethane	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Dibromomethane	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
2-Chloroethyl vinyl ether	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
4-Methyl-2-pentanone	ND	19800000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
cis-1,3-Dichloropropene	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Toluene	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Ethyl methacrylate	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
trans-1,3-Dichloropropene	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
1,1,2-Trichloroethane	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	

Reportable Detection Limit



A DLZ Company  
 ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES  
 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

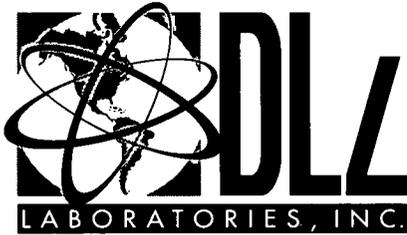
Page: Page 24 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-17

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
S-05	Aqueous	06/28/01 11:58	06/29/01

<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
2-Hexanone	ND	19800000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
1,3-Dichloropropane	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Trichloroethene	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Tetraiodobromomethane	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Ethylene dibromide	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Chlorobenzene	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Ethylbenzene	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
1,1,1,2-Tetrachloroethane	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
p,m-Xylene	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
o-Xylene	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Styrene	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Isopropylbenzene	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Bromoform	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
1,1,2,2-Tetrachloroethane	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
1,2,3-Trichloropropane	ND	1980000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
n-Propylbenzene	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Bromobenzene	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
2-Chlorotoluene	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
1,3,5-Trimethylbenzene	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
4-Chlorotoluene	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
tert-Butylbenzene	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
1,2,4-Trimethylbenzene	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
sec-Butylbenzene	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	

Reportable Detection Limit



A DLZ Company  
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 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

Page: Page 25 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-17

Sample Description

Matrix  
 Aqueous

Sampled Date/Time

Received

S-05 06/28/01 11:58 06/29/01

Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
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**Volatile Organic Compounds by EPA Method 8260B**

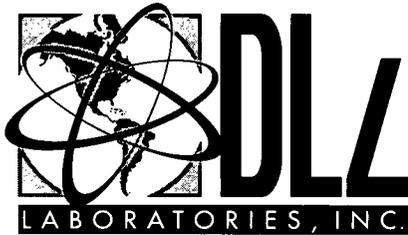
p-Isopropyltoluene	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
1,3-Dichlorobenzene	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
-Dichlorobenzene	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
t-Butylbenzene	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
1,2-Dichlorobenzene	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
1,2-Dibromo-3-chloropropane	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
1,2,4-Trichlorobenzene	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Hexachlorobutadiene	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
Naphthalene	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	
1,2,3-Trichlorobenzene	ND	3970000	ug/kg	EPA 8260B	07/10/01 14:59	DRB	

Surrogate: Dibromofluoromethane	90.9 %	80-120		EPA 8260B	07/10/01 14:59	DRB	
Surrogate: d4-1,2-Dichloroethane	109 %	80-120		EPA 8260B	07/10/01 14:59	DRB	
Surrogate: d8-Toluene	99.5 %	80-120		EPA 8260B	07/10/01 14:59	DRB	
Surrogate: Bromofluorobenzene	98.0 %	80-120		EPA 8260B	07/10/01 14:59	DRB	

**Physical Parameters by APHA/ASTM/EPA Methods**

Ignitability by Flashpoint	113		1 °F	EPA 1010	07/09/01 17:16	ESF	
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Reportable Detection Limit



A DLZ Company  
 ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES  
 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

Page: Page 26 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-18

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
S-08	Aqueous	06/28/01 12:09	06/29/01

Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
<b>Polychlorinated Biphenyls by EPA Method 608</b>							
PCB-1016	ND	5.00	mg/kg	EPA 8082	07/11/01 19:51	RSG	
PCB-1221	ND	5.00	mg/kg	EPA 8082	07/11/01 19:51	RSG	
B-1232	ND	5.00	mg/kg	EPA 8082	07/11/01 19:51	RSG	
B-1242	58.1	5.00	mg/kg	EPA 8082	07/11/01 19:51	RSG	
PCB-1248	ND	5.00	mg/kg	EPA 8082	07/11/01 19:51	RSG	
PCB-1254	ND	5.00	mg/kg	EPA 8082	07/11/01 19:51	RSG	
PCB-1260	ND	5.00	mg/kg	EPA 8082	07/11/01 19:51	RSG	
Surrogate: Tetrachloro-meta-xylene	110 %	60-140		EPA 8082	07/11/01 19:51	RSG	
Surrogate: Decachlorobiphenyl	140 %	60-150		EPA 8082	07/11/01 19:51	RSG	
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
Dichlorodifluoromethane	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Chloromethane	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Vinyl chloride	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Bromomethane	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Chloroethane	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Trichlorofluoromethane	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Acrolein	ND	42000000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Acetone	ND	42000000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1,1-Dichloroethene	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Methylene chloride	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Carbon disulfide	ND	42000000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Acrylonitrile	ND	42000000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
trans-1,2-Dichloroethene	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	

Reportable Detection Limit



A DLZ Company  
 ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES  
 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

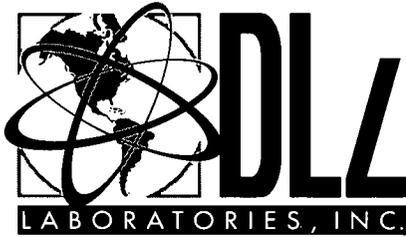
Page: Page 27 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-18

Sample Description	Matrix	Sampled Date/Time	Received
S-08	Aqueous	06/28/01 12:09	06/29/01

Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
1,1-Dichloroethane	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Vinyl acetate	ND	21000000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Methyl ethyl ketone	ND	42000000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1,1-Dichloropropane	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
cis-1,2-Dichloroethene	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Bromochloromethane	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Chloroform	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1,1,1-Trichloroethane	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1,1-Dichloropropene	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Carbon tetrachloride	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Benzene	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1,2-Dichloroethane	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Trichloroethene	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1,2-Dichloropropane	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Bromodichloromethane	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Dibromomethane	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
2-Chloroethyl vinyl ether	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
4-Methyl-2-pentanone	ND	21000000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
cis-1,3-Dichloropropene	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Toluene	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Ethyl methacrylate	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
trans-1,3-Dichloropropene	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1,1,2-Trichloroethane	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	

Reportable Detection Limit



A DLZ Company  
 ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES  
 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

Page: Page 28 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-18

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
S-08	Aquecus	06/28/01 12:09	06/29/01

Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
2-Hexanone	ND	21000000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1,3-Dichloropropane	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Trichloroethene	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1,1,1-Tribromomethane	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Ethylene dibromide	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Chlorobenzene	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Ethylbenzene	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1,1,1,2-Tetrachloroethane	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
p,m-Xylene	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
o-Xylene	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Styrene	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Isopropylbenzene	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Bromoform	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1,1,1,2-Tetrachloroethane	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1,2,3-Trichloropropane	ND	2100000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
n-Propylbenzene	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Bromobenzene	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
2-Chlorotoluene	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1,3,5-Trimethylbenzene	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
4-Chlorotoluene	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
tert-Butylbenzene	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1,2,4-Trimethylbenzene	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
sec-Butylbenzene	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	

Portable Detection Limit



A DLZ Company  
 ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES  
 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

Page: Page 29 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-18

Sample Description	Matrix	Sampled Date/Time	Received
S-08	Aqueous	06/28/01 12:09	06/29/01

Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
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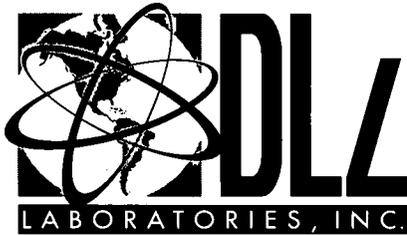
**Volatile Organic Compounds by EPA Method 8260B**

p-Isopropyltoluene	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1,3-Dichlorobenzene	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1-Dichlorobenzene	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
3-Butylbenzene	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1,2-Dichlorobenzene	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1,2-Dibromo-3-chloropropane	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1,2,4-Trichlorobenzene	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Hexachlorobutadiene	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Naphthalene	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
1,2,3-Trichlorobenzene	ND	4200000	ug/kg	EPA 8260B	07/10/01 18:37	DRB	
Surrogate: Dibromofluoromethane	83.3 %	80-120		EPA 8260B	07/10/01 18:37	DRB	
Surrogate: d4-1,2-Dichloroethane	99.0 %	80-120		EPA 8260B	07/10/01 18:37	DRB	
Surrogate: d8-Toluene	93.8 %	80-120		EPA 8260B	07/10/01 18:37	DRB	
Surrogate: Bromofluorobenzene	86.2 %	80-120		EPA 8260B	07/10/01 18:37	DRB	

**Physical Parameters by APHA/ASTM/EPA Methods**

Ignitability by Flashpoint	141	1	°F	EPA 1010	07/10/01 13:20	ESF	
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Reportable Detection Limit



A DLZ Company  
 ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES  
 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

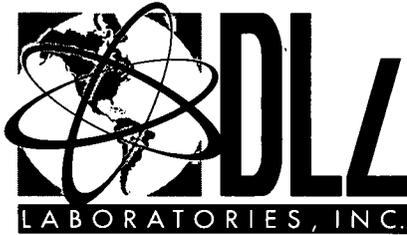
Page: Page 30 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-19

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
Trip Blank	Aqueous	06/28/01 00:00	06/29/01

<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
Dichlorodifluoromethane	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Chloromethane	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Methyl chloride	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Bromomethane	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Chloroethane	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Trichlorofluoromethane	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Acrolein	ND	100	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Acetone	ND	100	ug/l	EPA 8260B	07/05/01 12:05	DRB	
1,1-Dichloroethene	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Methylene chloride	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Carbon disulfide	ND	100	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Acrylonitrile	ND	100	ug/l	EPA 8260B	07/05/01 12:05	DRB	
trans-1,2-Dichloroethene	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
1,1-Dichloroethane	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Vinyl acetate	ND	50.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Methyl ethyl ketone	ND	100	ug/l	EPA 8260B	07/05/01 12:05	DRB	
2,2-Dichloropropane	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
cis-1,2-Dichloroethene	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Bromochloromethane	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Chloroform	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
1,1,1-Trichloroethane	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
1,1-Dichloropropene	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Carbon tetrachloride	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	

Reportable Detection Limit



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 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

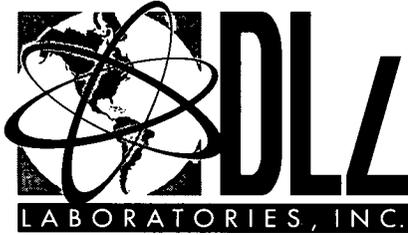
Page: Page 31 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-19

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
Tip Blank	Aqueous	06/28/01 00:00	06/29/01

Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
Benzene	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
1,2-Dichloroethane	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
chloroethene	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
1,2-Dichloropropane	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Bromodichloromethane	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Dibromomethane	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
2-Chloroethyl vinyl ether	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
4-Methyl-2-pentanone	ND	50.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
cis-1,3-Dichloropropene	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Toluene	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Ethyl methacrylate	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
trans-1,3-Dichloropropene	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
1,1,2-Trichloroethane	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
2-Hexanone	ND	50.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
1,3-Dichloropropane	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Tetrachloroethene	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Chlorodibromomethane	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Ethylene dibromide	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Chlorobenzene	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Ethylbenzene	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
p,m-Xylene	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
o-Xylene	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	

Reportable Detection Limit



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 Twinsburg OH, 44087

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 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-19

Sample Description

Trip Blank

Matrix

Aqueous

Sampled Date/Time

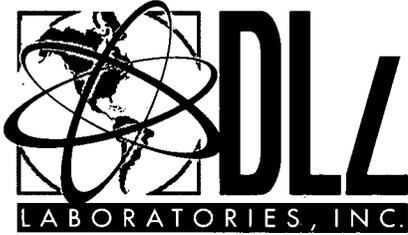
06/28/01 00:00

Received

06/29/01

Analyte(s)	Result	*RDL	Units	Method #	Analysis Date	Analyst	Flag
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
Styrene	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Isopropylbenzene	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Formoform	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
1,2,3-Trichloropropane	ND	5.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
n-Propylbenzene	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Bromobenzene	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
2-Chlorotoluene	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
1,3,5-Trimethylbenzene	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
4-Chlorotoluene	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
tert-Butylbenzene	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
1,2,4-Trimethylbenzene	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
sec-Butylbenzene	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
p-Isopropyltoluene	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
1,3-Dichlorobenzene	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
1,4-Dichlorobenzene	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
n-Butylbenzene	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
1,2-Dichlorobenzene	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
1,2-Dibromo-3-chloropropane	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
1,2,4-Trichlorobenzene	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Hexachlorobutadiene	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
Naphthalene	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	
1,2,3-Trichlorobenzene	ND	10.0	ug/l	EPA 8260B	07/05/01 12:05	DRB	

portable Detection Limit



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 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

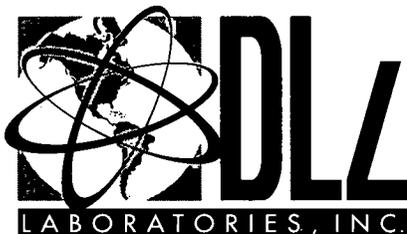
Page: Page 33 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

Lab Sample #: C1F0263-19

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received</u>
Trip Blank	Aqueous	06/28/01 00:00	06/29/01

<u>Analyte(s)</u>	<u>Result</u>	<u>*RDL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Flag</u>
<b>Volatile Organic Compounds by EPA Method 8260B</b>							
Surrogate: Dibromofluoromethane	101 %	80-120		EPA 8260B	07/05/01 12:05	DRB	
Surrogate: 1,1,2-Dichloroethane	110 %	80-120		EPA 8260B	07/05/01 12:05	DRB	
Surrogate: m-Toluene	103 %	80-120		EPA 8260B	07/05/01 12:05	DRB	
Surrogate: Bromofluorobenzene	96.8 %	80-120		EPA 8260B	07/05/01 12:05	DRB	

Reportable Detection Limit



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 INDUSTRIAL HYGIENE

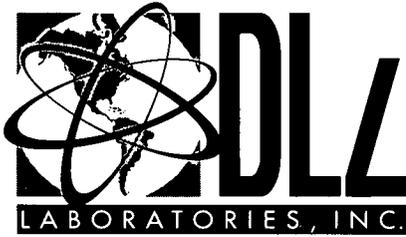
Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

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 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

**Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Flag
<b>Batch CG10505 - EPA 3010A</b>										
<b>Blank (CG10505-BLK1)</b>										
				Prepared: 07/03/01 Analyzed: 07/04/01						
Barium	ND	50.0	ug/l							
Silver	ND	20.0	ug/l							
<b>Blank (CG10505-BLK2)</b>										
				Prepared: 07/03/01 Analyzed: 07/04/01						
Barium	ND	50.0	ug/l							
Silver	ND	20.0	ug/l							
<b>Blank (CG10505-BLK3)</b>										
				Prepared: 07/03/01 Analyzed: 07/04/01						
Barium	ND	50.0	ug/l							
Silver	ND	20.0	ug/l							
<b>Matrix Spike (CG10505-MS1)</b>										
				Source: C1F0140-04 Prepared: 07/03/01 Analyzed: 07/04/01						
Barium	1930000	2500	ug/l	50000	2140000	NR	75-125			QM-4X
Silver	41800	1000	ug/l	50000	ND	83.6	75-125			
<b>Matrix Spike (CG10505-MS2)</b>										
				Source: C1F0215-01 Prepared: 07/03/01 Analyzed: 07/04/01						
Barium	1050	50.0	ug/l	1000	85.1	96.5	75-125			
Silver	952	20.0	ug/l	1000	ND	95.2	75-125			
<b>Matrix Spike (CG10505-MS3)</b>										
				Source: C1F0242-01 Prepared: 07/03/01 Analyzed: 07/04/01						
Barium	239000	2500	ug/l	50000	319000	NR	75-125			QM-4X
Silver	44100	1000	ug/l	50000	ND	88.2	75-125			
<b>Matrix Spike (CG10505-MS4)</b>										
				Source: C1F0263-14 Prepared: 07/03/01 Analyzed: 07/04/01						
Barium	926	50.0	ug/l	1000	ND	92.6	75-125			
Silver	862	20.0	ug/l	1000	ND	86.2	75-125			
<b>Matrix Spike Dup (CG10505-MSD1)</b>										
				Source: C1F0140-04 Prepared: 07/03/01 Analyzed: 07/04/01						
Barium	2210000	2500	ug/l	50000	2140000	140	75-125	13.5	20	QM-4X
Silver	43400	1000	ug/l	50000	ND	86.8	75-125	3.76	20	

portable Detection Limit.



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 INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

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 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

**Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Flag
<b>Batch CG10505 - EPA 3010A</b>										
<b>Matrix Spike Dup (CG10505-MSD2)</b> Source: C1F0215-01 Prepared: 07/03/01 Analyzed: 07/04/01										
Barium	1030	50.0 ug/l		1000	85.1	94.5	75-125	1.92	20	
Silver	936	20.0 ug/l		1000	ND	93.6	75-125	1.69	20	
<b>Matrix Spike Dup (CG10505-MSD3)</b> Source: C1F0242-01 Prepared: 07/03/01 Analyzed: 07/04/01										
Barium	222000	2500 ug/l		50000	319000	NR	75-125	7.38	20	QM-4X
Silver	44300	1000 ug/l		50000	ND	88.6	75-125	0.452	20	
<b>Matrix Spike Dup (CG10505-MSD4)</b> Source: C1F0263-14 Prepared: 07/03/01 Analyzed: 07/04/01										
Barium	958	50.0 ug/l		1000	ND	95.8	75-125	3.40	20	
Silver	923	20.0 ug/l		1000	ND	92.3	75-125	6.83	20	
<b>Reference (CG10505-SRM1)</b> Prepared: 07/03/01 Analyzed: 07/04/01										
Barium	995	50.0 ug/l		1000		99.5	80-120			
Silver	967	20.0 ug/l		1000		96.7	80-120			
<b>Reference (CG10505-SRM2)</b> Prepared: 07/03/01 Analyzed: 07/04/01										
Barium	945	50.0 ug/l		1000		94.5	80-120			
Silver	894	20.0 ug/l		1000		89.4	80-120			
<b>Reference (CG10505-SRM3)</b> Prepared: 07/03/01 Analyzed: 07/04/01										
Barium	974	50.0 ug/l		1000		97.4	80-120			
Silver	955	20.0 ug/l		1000		95.5	80-120			
<b>Batch CG10521 - EPA 3020A</b>										
<b>Blank (CG10521-BLK1)</b> Prepared: 07/03/01 Analyzed: 07/04/01										
Arsenic	ND	5.00 ug/l								
Cadmium	ND	5.00 ug/l								
Lead	ND	5.00 ug/l								

Reportable Detection Limit



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 INDUSTRIAL HYGIENE

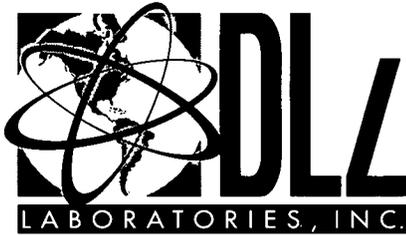
Client Name: OEPA (NEDO)  
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 Twinsburg OH, 44087

Page: Page 36 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

**Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG10521 - EPA 3020A</b>										
<b>Blank (CG10521-BLK2)</b>										
				Prepared: 07/03/01 Analyzed: 07/04/01						
Arsenic	ND	5.00	ug/l							
Cadmium	ND	5.00	ug/l							
Lead	ND	5.00	ug/l							
<b>Matrix Spike (CG10521-MS1)</b>										
				Source: C1F0140-04 Prepared: 07/03/01 Analyzed: 07/04/01						
Arsenic	883	250	ug/l	1000	ND	82.2	75-125			
Cadmium	930	250	ug/l	1000	ND	92.3	75-125			
Lead	1350	250	ug/l	1000	336	101	75-125			
<b>Matrix Spike (CG10521-MS2)</b>										
				Source: C1F0242-01 Prepared: 07/03/01 Analyzed: 07/04/01						
Arsenic	906	250	ug/l	1000	ND	88.4	75-125			
Cadmium	1020	250	ug/l	1000	ND	102	75-125			
Lead	1050	250	ug/l	1000	ND	100	75-125			
<b>Matrix Spike (CG10521-MS3)</b>										
				Source: C1F0261-01 Prepared: 07/03/01 Analyzed: 07/04/01						
Arsenic	90.1	5.00	ug/l	20.0	69.4	104	75-125			
Cadmium	974	5.00	ug/l	20.0	897	385	75-125			QM-4X
Lead	30.2	5.00	ug/l	20.0	11.0	96.0	75-125			
<b>Matrix Spike (CG10521-MS4)</b>										
				Source: C1F0263-14 Prepared: 07/03/01 Analyzed: 07/04/01						
Arsenic	21.3	5.00	ug/l	20.0	ND	99.6	75-125			
Cadmium	21.2	5.00	ug/l	20.0	ND	106	75-125			
Lead	22.1	5.00	ug/l	20.0	ND	104	75-125			
<b>Matrix Spike Dup (CG10521-MSD1)</b>										
				Source: C1F0140-04 Prepared: 07/03/01 Analyzed: 07/04/01						
Arsenic	855	250	ug/l	1000	ND	79.4	75-125	3.22	20	
Cadmium	921	250	ug/l	1000	ND	91.4	75-125	0.972	20	
Lead	1360	250	ug/l	1000	336	102	75-125	0.738	20	

Reportable Detection Limit



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 INDUSTRIAL HYGIENE

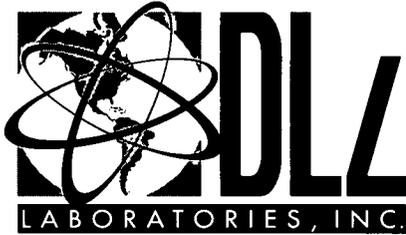
Client Name: OEPA (NEDO)  
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 Twinsburg OH, 44087

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 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

**Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG10521 - EPA 3020A</b>										
<b>Matrix Spike Dup (CG10521-MSD2)</b>		<b>Source: C1F0242-01</b>		<b>Prepared: 07/03/01</b>		<b>Analyzed: 07/04/01</b>				
Arsenic	853	250 ug/l		1000	ND	83.1	75-125	6.03	20	
Cadmium	1000	250 ug/l		1000	ND	100	75-125	1.98	20	
Lead	1010	250 ug/l		1000	ND	96.3	75-125	3.88	20	
<b>Matrix Spike Dup (CG10521-MSD3)</b>		<b>Source: C1F0261-01</b>		<b>Prepared: 07/03/01</b>		<b>Analyzed: 07/04/01</b>				
Arsenic	91.7	5.00 ug/l		20.0	69.4	112	75-125	1.76	20	
Cadmium	954	5.00 ug/l		20.0	897	285	75-125	2.07	20	QM-4X
Lead	29.4	5.00 ug/l		20.0	11.0	92.0	75-125	2.68	20	
<b>Matrix Spike Dup (CG10521-MSD4)</b>		<b>Source: C1F0263-14</b>		<b>Prepared: 07/03/01</b>		<b>Analyzed: 07/04/01</b>				
Arsenic	20.5	5.00 ug/l		20.0	ND	95.6	75-125	3.83	20	
Cadmium	21.3	5.00 ug/l		20.0	ND	106	75-125	0.471	20	
Lead	20.8	5.00 ug/l		20.0	ND	97.8	75-125	6.06	20	
<b>Reference (CG10521-SRM1)</b>				<b>Prepared: 07/03/01</b>		<b>Analyzed: 07/04/01</b>				
Arsenic	894	5.00 ug/l		1000		89.4	80-120			
Cadmium	866	5.00 ug/l		1000		86.6	80-120			
Lead	872	5.00 ug/l		1000		87.2	80-120			
<b>Reference (CG10521-SRM2)</b>				<b>Prepared: 07/03/01</b>		<b>Analyzed: 07/04/01</b>				
Arsenic	893	5.00 ug/l		1000		89.3	80-120			
Cadmium	853	5.00 ug/l		1000		85.3	80-120			
Lead	854	5.00 ug/l		1000		85.4	80-120			
<b>Batch CG10532 - EPA 7470A</b>										
<b>Blank (CG10532-BLK1)</b>				<b>Prepared: 07/02/01</b>		<b>Analyzed: 07/03/01</b>				
Mercury	ND	0.200 ug/l								

Reportable Detection Limit



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 INDUSTRIAL HYGIENE

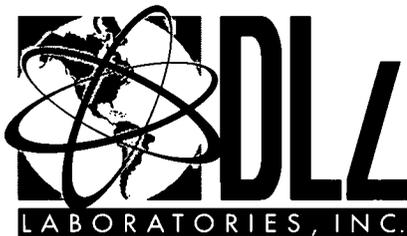
Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

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 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

**Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG10532 - EPA 7470A</b>									
<b>Matrix Spike (CG10532-MS1)</b> Source: C1F0140-04 Prepared: 07/02/01 Analyzed: 07/03/01									
Mercury	2.73	0.200 ug/l		3.00	ND	91.0 75-125			
<b>Matrix Spike (CG10532-MS2)</b> Source: C1F0242-01 Prepared: 07/02/01 Analyzed: 07/03/01									
Mercury	1.75	0.200 ug/l		3.00	ND	58.3 75-125			QM-07
<b>Matrix Spike (CG10532-MS3)</b> Source: C1F0261-01 Prepared: 07/02/01 Analyzed: 07/03/01									
Mercury	2.98	0.200 ug/l		3.00	ND	99.3 75-125			
<b>Matrix Spike (CG10532-MS4)</b> Source: C1F0263-14 Prepared: 07/02/01 Analyzed: 07/03/01									
Mercury	2.82	0.200 ug/l		3.00	ND	94.0 75-125			
<b>Matrix Spike Dup (CG10532-MSD1)</b> Source: C1F0140-04 Prepared: 07/02/01 Analyzed: 07/03/01									
Mercury	2.56	0.200 ug/l		3.00	ND	85.3 75-125	6.43	20	
<b>Matrix Spike Dup (CG10532-MSD2)</b> Source: C1F0242-01 Prepared: 07/02/01 Analyzed: 07/03/01									
Mercury	1.73	0.200 ug/l		3.00	ND	57.7 75-125	1.15	20	QM-07
<b>Matrix Spike Dup (CG10532-MSD3)</b> Source: C1F0261-01 Prepared: 07/02/01 Analyzed: 07/03/01									
Mercury	2.82	0.200 ug/l		3.00	ND	94.0 75-125	5.52	20	
<b>Matrix Spike Dup (CG10532-MSD4)</b> Source: C1F0263-14 Prepared: 07/02/01 Analyzed: 07/03/01									
Mercury	2.76	0.200 ug/l		3.00	ND	92.0 75-125	2.15	20	
<b>Reference (CG10532-SRM1)</b> Prepared: 07/02/01 Analyzed: 07/03/01									
Mercury	2.87	0.200 ug/l		3.00		95.7 0-200			
<b>Batch CG11004 - EPA 3010A</b>									
<b>Blank (CG11004-BLK1)</b> Prepared: 07/03/01 Analyzed: 07/09/01									
Chromium	ND	15.0 ug/l							

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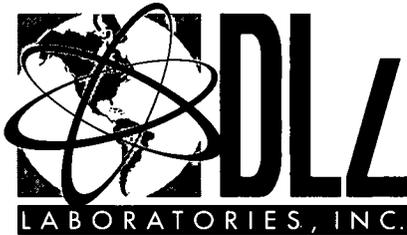
Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

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**Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Flag
<b>Batch CG11004 - EPA 3010A</b>										
<b>Blank (CG11004-BLK2)</b>				Prepared: 07/03/01 Analyzed: 07/09/01						
Chromium	ND	15.0	ug/l							
<b>Blank (CG11004-BLK3)</b>				Prepared: 07/03/01 Analyzed: 07/09/01						
Chromium	ND	15.0	ug/l							
<b>Matrix Spike (CG11004-MS1)</b>				Source: C1F0140-04 Prepared: 07/03/01 Analyzed: 07/09/01						
Chromium	46200	750	ug/l	50000	ND	92.4	75-125			
<b>Matrix Spike (CG11004-MS2)</b>				Source: C1F0215-01 Prepared: 07/03/01 Analyzed: 07/09/01						
Chromium	1050	15.0	ug/l	1000	ND	105	75-125			
<b>Matrix Spike (CG11004-MS3)</b>				Source: C1F0242-01 Prepared: 07/03/01 Analyzed: 07/09/01						
Chromium	55900	750	ug/l	50000	2200	107	75-125			
<b>Matrix Spike (CG11004-MS4)</b>				Source: C1F0263-14 Prepared: 07/03/01 Analyzed: 07/09/01						
Chromium	1020	15.0	ug/l	1000	ND	102	75-125			
<b>Matrix Spike (CG11004-MS5)</b>				Source: C1F0261-01 Prepared: 07/03/01 Analyzed: 07/09/01						
Chromium	49000	15.0	ug/l	1000	52300	NR	75-125			QM-4X
<b>Matrix Spike Dup (CG11004-MSD1)</b>				Source: C1F0140-04 Prepared: 07/03/01 Analyzed: 07/09/01						
Chromium	47600	750	ug/l	50000	ND	95.2	75-125	2.99	20	
<b>Matrix Spike Dup (CG11004-MSD2)</b>				Source: C1F0215-01 Prepared: 07/03/01 Analyzed: 07/09/01						
Chromium	1050	15.0	ug/l	1000	ND	105	75-125	0.00	20	
<b>Matrix Spike Dup (CG11004-MSD3)</b>				Source: C1F0242-01 Prepared: 07/03/01 Analyzed: 07/09/01						
Chromium	57700	750	ug/l	50000	2200	111	75-125	3.17	20	

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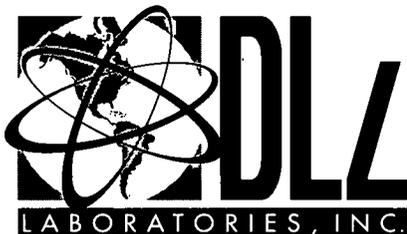
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**Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11004 - EPA 3010A</b>										
<b>Matrix Spike Dup (CG11004-MSD4)</b> Source: C1F0263-14 Prepared: 07/03/01 Analyzed: 07/09/01										
Chromium	1050	15.0 ug/l		1000	ND	105	75-125	2.90	20	
<b>Matrix Spike Dup (CG11004-MSD5)</b> Source: C1F0261-01 Prepared: 07/03/01 Analyzed: 07/09/01										
Chromium	50400	15.0 ug/l		1000	52300	NR	75-125	2.82	20	QM-4X
<b>Reference (CG11004-SRM1)</b> Prepared: 07/03/01 Analyzed: 07/09/01										
Chromium	1050	15.0 ug/l		1000		105	80-120			
<b>Reference (CG11004-SRM2)</b> Prepared: 07/03/01 Analyzed: 07/09/01										
Chromium	998	15.0 ug/l		1000		99.8	80-120			
<b>Reference (CG11004-SRM3)</b> Prepared: 07/03/01 Analyzed: 07/09/01										
Chromium	1050	15.0 ug/l		1000		105	80-120			
<b>Batch CG11009 - EPA 3050B</b>										
<b>Blank (CG11009-BLK1)</b> Prepared: 07/05/01 Analyzed: 07/09/01										
Cadmium	ND	0.500 mg/kg wet								
Lead	ND	0.500 mg/kg wet								
<b>Blank (CG11009-BLK2)</b> Prepared: 07/05/01 Analyzed: 07/09/01										
Cadmium	ND	0.500 mg/kg wet								
Lead	ND	0.500 mg/kg wet								
<b>Matrix Spike (CG11009-MS1)</b> Source: C1F0263-01 Prepared: 07/05/01 Analyzed: 07/09/01										
Cadmium	65.6	0.490 mg/kg dry		24.5		268	75-125			QM-07
Lead	29.4	0.490 mg/kg dry		24.5	8.89	83.7	75-125			

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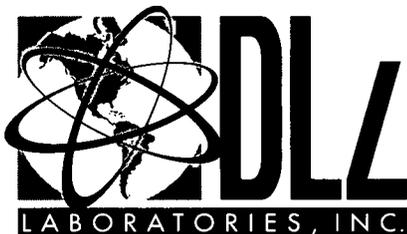
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**Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11009 - EPA 3050B</b>									
<b>Matrix Spike (CG11009-MS2)</b>		<b>Source: C1G0003-12</b>		<b>Prepared: 07/05/01</b>		<b>Analyzed: 07/09/01</b>			
Cadmium	21.9	0.553 mg/kg dry		27.6	ND	79.3 75-125			
Lead	30.8	0.553 mg/kg dry		27.6	8.51	80.8 75-125			
<b>Matrix Spike (CG11009-MS3)</b>		<b>Source: C1G0016-01</b>		<b>Prepared: 07/05/01</b>		<b>Analyzed: 07/09/01</b>			
Cadmium	23.7	0.550 mg/kg dry		27.5	ND	85.6 75-125			
<b>Matrix Spike Dup (CG11009-MSD1)</b>		<b>Source: C1F0263-01</b>		<b>Prepared: 07/05/01</b>		<b>Analyzed: 07/09/01</b>			
Cadmium	77.5	0.478 mg/kg dry		23.9		324 75-125	16.6	20	QM-07
Lead	31.7	0.478 mg/kg dry		23.9	8.89	95.4 75-125	7.53	20	
<b>Matrix Spike Dup (CG11009-MSD2)</b>		<b>Source: C1G0003-12</b>		<b>Prepared: 07/05/01</b>		<b>Analyzed: 07/09/01</b>			
Cadmium	19.9	0.553 mg/kg dry		27.6	ND	72.0 75-125	9.57	20	QM-07
Lead	26.2	0.553 mg/kg dry		27.6	8.51	64.1 75-125	16.1	20	QM-07
<b>Matrix Spike Dup (CG11009-MSD3)</b>		<b>Source: C1G0016-01</b>		<b>Prepared: 07/05/01</b>		<b>Analyzed: 07/09/01</b>			
Cadmium	18.7	0.563 mg/kg dry		28.2	ND	65.8 75-125	23.6	20	QM-07
<b>Reference (CG11009-SRM1)</b>				<b>Prepared: 07/05/01</b>		<b>Analyzed: 07/09/01</b>			
Cadmium	154	0.498 mg/kg wet		162		95.1 76.5-122.			
Lead	173	0.498 mg/kg wet		184		94.0 76.1-123.			
<b>Reference (CG11009-SRM2)</b>				<b>Prepared: 07/05/01</b>		<b>Analyzed: 07/09/01</b>			
Cadmium	160	0.493 mg/kg wet		162		98.8 76.5-122.			
Lead	177	0.493 mg/kg wet		184		96.2 76.1-123.			
<b>Batch CG11011 - EPA 3050B</b>									
<b>Blank (CG11011-BLK1)</b>				<b>Prepared: 07/05/01</b>		<b>Analyzed: 07/09/01</b>			
Selenium	ND	0.500 mg/kg wet							

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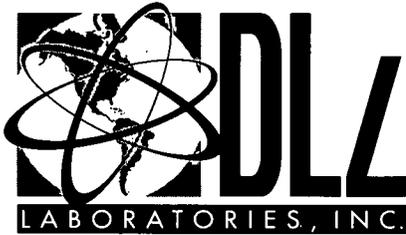
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**Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11011 - EPA 3050B</b>										
<b>Blank (CG11011-BLK2)</b>										
				Prepared: 07/05/01 Analyzed: 07/09/01						
Selenium	ND	0.500	mg/kg wet							
<b>Matrix Spike (CG11011-MS1)</b>										
				Source: C1F0263-01 Prepared: 07/05/01 Analyzed: 07/09/01						
Selenium	20.8	0.490	mg/kg dry	24.5	ND	84.9	75-125			
<b>Matrix Spike (CG11011-MS2)</b>										
				Source: C1G0003-12 Prepared: 07/05/01 Analyzed: 07/09/01						
Selenium	20.9	0.553	mg/kg dry	27.6	ND	75.7	75-125			
<b>Matrix Spike (CG11011-MS3)</b>										
				Source: C1G0016-01 Prepared: 07/05/01 Analyzed: 07/09/01						
Selenium	18.9	0.550	mg/kg dry	27.5	1.18	64.4	75-125			QM-07
<b>Matrix Spike Dup (CG11011-MSD1)</b>										
				Source: C1F0263-01 Prepared: 07/05/01 Analyzed: 07/09/01						
Selenium	20.9	0.478	mg/kg dry	23.9	ND	87.4	75-125	0.480	20	
<b>Matrix Spike Dup (CG11011-MSD2)</b>										
				Source: C1G0003-12 Prepared: 07/05/01 Analyzed: 07/09/01						
Selenium	14.1	0.553	mg/kg dry	27.6	ND	51.1	75-125	38.9	20	QM-07
<b>Matrix Spike Dup (CG11011-MSD3)</b>										
				Source: C1G0016-01 Prepared: 07/05/01 Analyzed: 07/09/01						
Selenium	11.2	0.563	mg/kg dry	28.2	1.18	35.5	75-125	51.2	20	QM-07
<b>Reference (CG11011-SRM1)</b>										
				Prepared: 07/05/01 Analyzed: 07/09/01						
Selenium	99.8	0.498	mg/kg wet	107		93.3	62-138.3			
<b>Reference (CG11011-SRM2)</b>										
				Prepared: 07/05/01 Analyzed: 07/09/01						
Selenium	111	0.493	mg/kg wet	107		104	62-138.3			
<b>Batch CG11012 - EPA 3020A</b>										
<b>Blank (CG11012-BLK1)</b>										
				Prepared: 07/03/01 Analyzed: 07/09/01						
Selenium	ND	5.00	ug/l							

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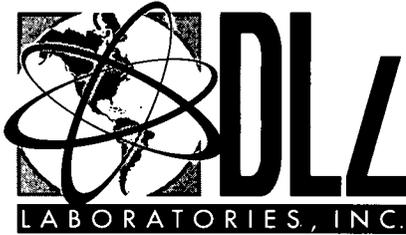
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**Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11012 - EPA 3020A</b>										
<b>Blank (CG11012-BLK2)</b>										
				Prepared: 07/03/01 Analyzed: 07/09/01						
Selenium	ND	5.00	ug/l							
<b>Matrix Spike (CG11012-MS1)</b>										
				Source: C1F0140-04 Prepared: 07/03/01 Analyzed: 07/09/01						
Selenium	22.5	5.00	ug/l	20.0	ND	112	75-125			
<b>Matrix Spike (CG11012-MS2)</b>										
				Source: C1F0242-01 Prepared: 07/03/01 Analyzed: 07/09/01						
Selenium	24.0	5.00	ug/l	20.0	ND	120	75-125			
<b>Matrix Spike (CG11012-MS3)</b>										
				Source: C1F0263-14 Prepared: 07/03/01 Analyzed: 07/09/01						
Selenium	26.5	5.00	ug/l	20.0	ND	132	75-125			A-01a
<b>Matrix Spike Dup (CG11012-MSD1)</b>										
				Source: C1F0140-04 Prepared: 07/03/01 Analyzed: 07/09/01						
Selenium	21.5	5.00	ug/l	20.0	ND	108	75-125	4.55	20	
<b>Matrix Spike Dup (CG11012-MSD2)</b>										
				Source: C1F0242-01 Prepared: 07/03/01 Analyzed: 07/09/01						
Selenium	22.0	5.00	ug/l	20.0	ND	110	75-125	8.70	20	
<b>Matrix Spike Dup (CG11012-MSD3)</b>										
				Source: C1F0263-14 Prepared: 07/03/01 Analyzed: 07/09/01						
Selenium	24.5	5.00	ug/l	20.0	ND	122	75-125	7.84	20	
<b>Reference (CG11012-SRM1)</b>										
				Prepared: 07/03/01 Analyzed: 07/09/01						
Selenium	982	5.00	ug/l	1000		98.2	80-120			
<b>Reference (CG11012-SRM2)</b>										
				Prepared: 07/03/01 Analyzed: 07/09/01						
Selenium	990	5.00	ug/l	1000		99.0	80-120			
<b>Batch CG11317 - EPA 3050B</b>										
<b>Matrix Spike (CG11317-MS1)</b>										
				Source: C1F0263-01 Prepared: 07/05/01 Analyzed: 07/12/01						
Cadmium	67.6	4.90	mg/kg dry	24.5	46.2	87.3	75-125			

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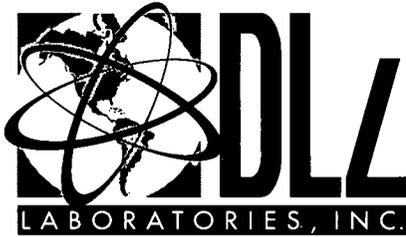
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**Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11317 - EPA 3050B</b>										
<b>Matrix Spike (CG11317-MS2)</b> Source: C1G0016-01 Prepared: 07/05/01 Analyzed: 07/12/01										
Lead	56.9	5.50	mg/kg dry	27.5	43.3	49.5	75-125			QM-07
<b>Matrix Spike Dup (CG11317-MSD1)</b> Source: C1F0263-01 Prepared: 07/05/01 Analyzed: 07/12/01										
Cadmium	80.6	4.78	mg/kg dry	23.9	46.2	144	75-125	17.5	20	QM-07
<b>Matrix Spike Dup (CG11317-MSD2)</b> Source: C1G0016-01 Prepared: 07/05/01 Analyzed: 07/12/01										
Lead	45.6	5.63	mg/kg dry	28.2	43.3	8.16	75-125	22.0	20	QM-07
<b>Batch CG11617 - EPA 3050B</b>										
<b>Blank (CG11617-BLK1)</b> Prepared: 07/05/01 Analyzed: 07/15/01										
Arsenic	ND	25.0	mg/kg wet							
Barium	ND	6.25	mg/kg wet							
Chromium	ND	2.50	mg/kg wet							
Silver	ND	2.50	mg/kg wet							
<b>Blank (CG11617-BLK2)</b> Prepared: 07/05/01 Analyzed: 07/15/01										
Arsenic	ND	25.0	mg/kg wet							
Barium	ND	6.25	mg/kg wet							
Chromium	ND	2.50	mg/kg wet							
Silver	ND	2.50	mg/kg wet							
<b>Matrix Spike (CG11617-MS1)</b> Source: C1G0016-01 Prepared: 07/05/01 Analyzed: 07/15/01										
Arsenic	ND	28.2	mg/kg dry	28.2	ND	66.5	75-125			QM-07
Barium	121	7.04	mg/kg dry	28.2	75.0	163	75-125			QM-07
Chromium	29.6	2.82	mg/kg dry	28.2	9.81	70.2	75-125			QM-07
Silver	23.3	2.82	mg/kg dry	28.2	ND	82.6	75-125			

Reportable Detection Limit



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**Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11617 - EPA 3050B</b>										
<b>Matrix Spike (CG11617-MS2)</b>		<b>Source: C1F0263-01</b>		<b>Prepared: 07/05/01</b>		<b>Analyzed: 07/15/01</b>				
Arsenic	ND	24.0	mg/kg dry	24.0	ND	75.4	75-125			
Barium	104	6.01	mg/kg dry	24.0	117	NR	75-125			QM-4X
Chromium	21.0	2.40	mg/kg dry	24.0	ND	82.5	75-125			
Silver	19.8	2.40	mg/kg dry	24.0	ND	82.5	75-125			
<b>Matrix Spike Dup (CG11617-MSD1)</b>		<b>Source: C1G0016-01</b>		<b>Prepared: 07/05/01</b>		<b>Analyzed: 07/15/01</b>				
Arsenic	33.6	27.5	mg/kg dry	27.5	ND	88.1	75-125	17.8	200	
Barium	106	6.87	mg/kg dry	27.5	75.0	113	75-125	13.2	20	
Chromium	34.9	2.75	mg/kg dry	27.5	9.81	91.2	75-125	16.4	20	
Silver	23.4	2.75	mg/kg dry	27.5	ND	85.1	75-125	0.428	20	
<b>Matrix Spike Dup (CG11617-MSD2)</b>		<b>Source: C1F0263-01</b>		<b>Prepared: 07/05/01</b>		<b>Analyzed: 07/15/01</b>				
Arsenic	ND	24.5	mg/kg dry	24.5	ND		75-125		200	QM-07
Barium	167	6.13	mg/kg dry	24.5	117	204	75-125	46.5	20	QM-4X
Chromium	22.0	2.45	mg/kg dry	24.5	ND	84.9	75-125	4.65	20	
Silver	20.5	2.45	mg/kg dry	24.5	ND	83.7	75-125	3.47	20	
<b>Reference (CG11617-SRM1)</b>				<b>Prepared: 07/05/01</b>		<b>Analyzed: 07/15/01</b>				
Arsenic	41.9	24.2	mg/kg wet	47.5		88.2	72-128			
Barium	457	6.04	mg/kg wet	509		89.8	77-123			
Chromium	45.7	2.42	mg/kg wet	51.4		88.9	76-124			
Silver	58.8	2.42	mg/kg wet	84.3		69.8	64-135			
<b>Reference (CG11617-SRM2)</b>				<b>Prepared: 07/05/01</b>		<b>Analyzed: 07/15/01</b>				
Arsenic	42.8	25.0	mg/kg wet	47.5		90.1	72-128			
Barium	470	6.25	mg/kg wet	509		92.3	77-123			
Chromium	47.7	2.50	mg/kg wet	51.4		92.8	76-124			
Silver	61.1	2.50	mg/kg wet	84.3		72.5	64-135			

Reportable Detection Limit



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**Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11629 - EPA 7471A</b>										
<b>Blank (CG11629-BLK1)</b>										
				Prepared: 07/14/01 Analyzed: 07/15/01						
Mercury	ND	0.0005	mg/kg wet							
<b>Matrix Spike (CG11629-MS1)</b>										
				Source: C1F0263-01 Prepared: 07/14/01 Analyzed: 07/15/01						
Mercury	146	41.0	mg/kg dry	0.492	222	NR	75-125			QM-4X
<b>Matrix Spike (CG11629-MS2)</b>										
				Source: C1F0263-11 Prepared: 07/14/01 Analyzed: 07/15/01						
Mercury	160	41.0	mg/kg dry	0.492	141	NR	75-125			QM-4X
<b>Matrix Spike (CG11629-MS3)</b>										
				Source: C1G0076-01 Prepared: 07/14/01 Analyzed: 07/15/01						
Mercury	0.529	0.081	mg/kg dry	0.487	0.088	90.6	75-125			
<b>Matrix Spike Dup (CG11629-MSD1)</b>										
				Source: C1F0263-01 Prepared: 07/14/01 Analyzed: 07/15/01						
Mercury	190	39.7	mg/kg dry	0.476	222	NR	75-125	26.2	20	QM-4X
<b>Matrix Spike Dup (CG11629-MSD2)</b>										
				Source: C1F0263-11 Prepared: 07/14/01 Analyzed: 07/15/01						
Mercury	144	41.7	mg/kg dry	0.500	141	600	75-125	10.5	20	QM-4X
<b>Matrix Spike Dup (CG11629-MSD3)</b>										
				Source: C1G0076-01 Prepared: 07/14/01 Analyzed: 07/15/01						
Mercury	0.478	0.080	mg/kg dry	0.480	0.088	81.2	75-125	10.1	20	
<b>Reference (CG11629-SRM1)</b>										
				Prepared: 07/14/01 Analyzed: 07/15/01						
Mercury	6.18	0.385	mg/kg wet	6.21		99.5	67-133			

Reportable Detection Limit



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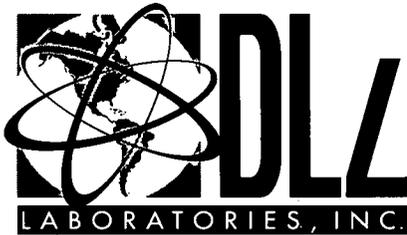
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 Contact: Gunars Zikmanis  
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**TCLP Metals by 6000/7000 Series Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11112 - EPA 3010A</b>										
<b>Blank (CG11112-BLK1)</b>										
					Prepared: 07/09/01 Analyzed: 07/10/01					
Arsenic	ND	0.500	mg/l							
Chromium	ND	0.500	mg/l							
Selenium	ND	0.100	mg/l							
Silver	ND	0.500	mg/l							
Barium	ND	1.00	mg/l							
Cadmium	ND	0.100	mg/l							
d	ND	0.500	mg/l							
<b>Matrix Spike (CG11112-MS1)</b>										
					Source: C1F0263-01 Prepared: 07/09/01 Analyzed: 07/10/01					
Arsenic	0.934	0.500	mg/l	1.00	ND	93.4	75-125			
Chromium	0.943	0.500	mg/l	1.00	ND	93.4	75-125			
Selenium	0.965	0.100	mg/l	1.00	ND	96.5	75-125			
Silver	0.842	0.500	mg/l	1.00	ND	84.2	75-125			
Barium	6.49	1.00	mg/l	1.00	5.78	71.0	75-125			
Cadmium	0.968	0.100	mg/l	1.00	ND	95.7	75-125			QM-4X
Lead	0.990	0.500	mg/l	1.00	ND	92.5	75-125			
<b>Matrix Spike (CG11112-MS2)</b>										
					Source: C1F0263-11 Prepared: 07/09/01 Analyzed: 07/10/01					
Arsenic	0.952	0.500	mg/l	1.00	ND	95.2	75-125			
Chromium	0.963	0.500	mg/l	1.00	ND	94.2	75-125			
Selenium	0.997	0.100	mg/l	1.00	ND	99.7	75-125			
Silver	0.950	0.500	mg/l	1.00	ND	95.0	75-125			
Barium	8.05	1.00	mg/l	1.00	7.31	74.0	75-125			
Cadmium	0.976	0.100	mg/l	1.00	ND	96.8	75-125			QM-4X
Lead	1.04	0.500	mg/l	1.00	ND	94.7	75-125			
<b>Matrix Spike Dup (CG11112-MSD1)</b>										
					Source: C1F0263-01 Prepared: 07/09/01 Analyzed: 07/10/01					
Arsenic	0.929	0.500	mg/l	1.00	ND	92.9	75-125	0.537	20	
Chromium	0.954	0.500	mg/l	1.00	ND	94.5	75-125	1.16	20	
Selenium	0.950	0.100	mg/l	1.00	ND	95.0	75-125	1.57	20	
Silver	0.869	0.500	mg/l	1.00	ND	86.9	75-125	3.16	20	
Barium	6.48	1.00	mg/l	1.00	5.78	70.0	75-125	0.154	20	
Cadmium	0.974	0.100	mg/l	1.00	ND	96.3	75-125	0.618	20	QM-4X

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**TCLP Metals by 6000/7000 Series Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11112 - EPA 3010A</b>										
<b>Matrix Spike Dup (CG11112-MSD1)</b>			<b>Source: C1F0263-01</b>		<b>Prepared: 07/09/01</b>		<b>Analyzed: 07/10/01</b>			
Lead	0.992	0.500 mg/l		1.00	ND	92.7	75-125	0.202	20	
<b>Matrix Spike Dup (CG11112-MSD2)</b>			<b>Source: C1F0263-11</b>		<b>Prepared: 07/09/01</b>		<b>Analyzed: 07/10/01</b>			
Arsenic	0.947	0.500 mg/l		1.00	ND	94.7	75-125	0.527	20	
Chromium	0.964	0.500 mg/l		1.00	ND	94.3	75-125	0.104	20	
Selenium	1.01	0.100 mg/l		1.00	ND	101	75-125	1.30	20	
Mercury	0.904	0.500 mg/l		1.00	ND	90.4	75-125	4.96	20	
Cadmium	7.92	1.00 mg/l		1.00	7.31	61.0	75-125	1.63	20	QM-4X
Lead	0.975	0.100 mg/l		1.00	ND	96.7	75-125	0.103	20	
Lead	0.990	0.500 mg/l		1.00	ND	89.7	75-125	4.93	20	
<b>Reference (CG11112-SRM1)</b>				<b>Prepared: 07/09/01</b>		<b>Analyzed: 07/10/01</b>				
Arsenic	0.923	0.500 mg/l		1.00		92.3	80-120			
Chromium	0.953	0.500 mg/l		1.00		95.3	80-120			
Selenium	0.936	0.100 mg/l		1.00		93.6	80-120			
Silver	0.909	0.500 mg/l		1.00		90.9	80-120			
Barium	0.894	0.500 mg/l		1.00		89.4	80-120			
Cadmium	0.958	0.100 mg/l		1.00		95.8	80-120			
Lead	0.912	0.500 mg/l		1.00		91.2	80-120			
<b>Batch CG11205 - EPA 7470A</b>										
<b>Blank (CG11205-BLK1)</b>					<b>Prepared: 07/10/01</b>		<b>Analyzed: 07/11/01</b>			
Mercury	ND	0.020 mg/l								
<b>Blank (CG11205-BLK2)</b>					<b>Prepared: 07/10/01</b>		<b>Analyzed: 07/11/01</b>			
Mercury	ND	-0.020 mg/l								

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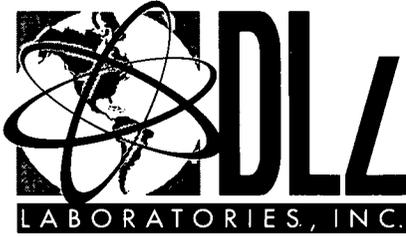
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**TCLP Metals by 6000/7000 Series Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11205 - EPA 7470A</b>										
<b>Matrix Spike (CG11205-MS1)</b> Source: C1F0140-08 Prepared: 07/10/01 Analyzed: 07/11/01										
Mercury	0.003	0.0002 mg/l		0.003	ND	100.00	75-125			
<b>Matrix Spike (CG11205-MS2)</b> Source: C1F0165-01 Prepared: 07/10/01 Analyzed: 07/11/01										
Mercury	0.003	0.0002 mg/l		0.003	ND	100.00	75-125			
<b>Matrix Spike (CG11205-MS3)</b> Source: C1F0177-01 Prepared: 07/10/01 Analyzed: 07/11/01										
Mercury	0.003	0.0002 mg/l		0.003	ND	100.00	75-125			
<b>Matrix Spike (CG11205-MS4)</b> Source: C1F0263-01 Prepared: 07/10/01 Analyzed: 07/11/01										
Mercury	0.278	0.0002 mg/l		0.003	0.271	233.33	75-125			QM-4X
<b>Matrix Spike (CG11205-MS5)</b> Source: C1F0263-11 Prepared: 07/10/01 Analyzed: 07/11/01										
Mercury	0.259	0.0002 mg/l		0.003	0.259	0.0000	75-125			QM-4X
<b>Matrix Spike Dup (CG11205-MSD1)</b> Source: C1F0140-08 Prepared: 07/10/01 Analyzed: 07/11/01										
Mercury	0.003	0.0002 mg/l		0.003	ND	100.00	75-125	0.0000	20	
<b>Matrix Spike Dup (CG11205-MSD2)</b> Source: C1F0165-01 Prepared: 07/10/01 Analyzed: 07/11/01										
Mercury	0.003	0.0002 mg/l		0.003	ND	100.00	75-125	0.0000	20	
<b>Matrix Spike Dup (CG11205-MSD3)</b> Source: C1F0177-01 Prepared: 07/10/01 Analyzed: 07/11/01										
Mercury	0.003	0.0002 mg/l		0.003	ND	100.00	75-125	0.0000	20	
<b>Matrix Spike Dup (CG11205-MSD4)</b> Source: C1F0263-01 Prepared: 07/10/01 Analyzed: 07/11/01										
Mercury	0.294	0.0002 mg/l		0.003	0.271	766.67	75-125	5.5944	20	QM-4X
<b>Matrix Spike Dup (CG11205-MSD5)</b> Source: C1F0263-11 Prepared: 07/10/01 Analyzed: 07/11/01										
Mercury	0.258	0.0002 mg/l		0.003	0.259	NR	75-125	0.38685	20	QM-4X

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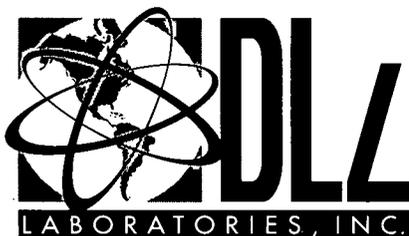
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**TCLP Metals by 6000/7000 Series Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11205 - EPA 7470A</b>										
<b>Reference (CG11205-SRM1)</b>				Prepared: 07/10/01 Analyzed: 07/11/01						
Mercury	0.003	0.0002	mg/l	0.003		100.00	0-200			
<b>Reference (CG11205-SRM2)</b>				Prepared: 07/10/01 Analyzed: 07/11/01						
Mercury	0.003	0.0002	mg/l	0.003		100.00	0-200			

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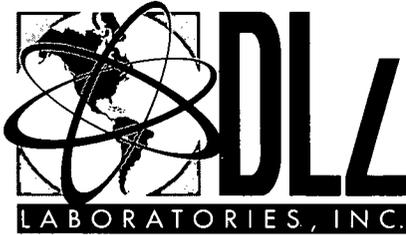
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**Polychlorinated Biphenyls by EPA Method 608 - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11003 - EPA 3580A</b>										
<b>Blank (CG11003-BLK1)</b>										
				Prepared: 07/09/01 Analyzed: 07/11/01						
PCB-1016	ND	1.00	mg/kg							
PCB-1221	ND	1.00	mg/kg							
PCB-1232	ND	1.00	mg/kg							
PCB-1242	ND	1.00	mg/kg							
PCB-1248	ND	1.00	mg/kg							
PCB-1254	ND	1.00	mg/kg							
3-1260	ND	1.00	mg/kg							
Surrogate: Tetrachloro-meta-xylene	0.520		mg/kg	0.500		104	60-140			
Surrogate: Decachlorobiphenyl	0.600		mg/kg	0.500		120	60-150			
<b>LCS (CG11003-BS1)</b>										
				Prepared: 07/09/01 Analyzed: 07/11/01						
PCB-1016	5.58	1.00	mg/kg	5.00		112	50-150			
PCB-1260	6.69	1.00	mg/kg	5.00		134	50-150			
Surrogate: Tetrachloro-meta-xylene	0.600		mg/kg	0.500		120	60-140			
Surrogate: Decachlorobiphenyl	0.750		mg/kg	0.500		150	60-150			
<b>Matrix Spike (CG11003-MS1)</b>										
				Source: C1F0241-01 Prepared: 07/09/01 Analyzed: 07/12/01						
PCB-1016	ND	100	mg/kg	8.77	ND		50-150			QM-01
PCB-1260	ND	100	mg/kg	8.77	ND		50-150			QM-01
Surrogate: Tetrachloro-meta-xylene	0.00		mg/kg	0.439			60-140			QM-01,S-01
Surrogate: Decachlorobiphenyl	0.00		mg/kg	0.439			60-150			QM-01,S-01
<b>Matrix Spike Dup (CG11003-MSD1)</b>										
				Source: C1F0241-01 Prepared: 07/09/01 Analyzed: 07/12/01						
PCB-1016	ND	100	mg/kg	9.62	ND		50-150	20		QM-01
PCB-1260	ND	100	mg/kg	9.62	ND		50-150	20		QM-01
Surrogate: Tetrachloro-meta-xylene	0.00		mg/kg	0.481			60-140			QM-01,S-01
Surrogate: Decachlorobiphenyl	0.00		mg/kg	0.481			60-150			QM-01,S-01

Reportable Detection Limit



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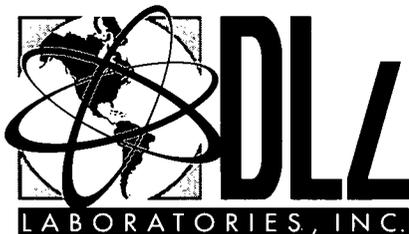
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11319 - Volatiles</b>									
<b>Blank (CG11319-BLK1)</b>				Prepared & Analyzed: 07/05/01					
Dichlorodifluoromethane	ND	10.0	ug/l						
Chloromethane	ND	10.0	ug/l						
Vinyl chloride	ND	10.0	ug/l						
Bromomethane	ND	10.0	ug/l						
Chloroethane	ND	10.0	ug/l						
Trichlorofluoromethane	ND	5.0	ug/l						
olein	ND	100	ug/l						
tone	ND	100	ug/l						
1,1-Dichloroethene	ND	5.0	ug/l						
Methylene chloride	ND	5.0	ug/l						
Carbon disulfide	ND	100	ug/l						
Acrylonitrile	ND	100	ug/l						
trans-1,2-Dichloroethene	ND	5.0	ug/l						
1,1-Dichloroethane	ND	5.0	ug/l						
Vinyl acetate	ND	50.0	ug/l						
Methyl ethyl ketone	ND	100	ug/l						
2,2-Dichloropropane	ND	5.0	ug/l						
cis-1,2-Dichloroethene	ND	5.0	ug/l						
Bromochloromethane	ND	5.0	ug/l						
Chloroform	ND	5.0	ug/l						
1,1,1-Trichloroethane	ND	5.0	ug/l						
1,1-Dichloropropene	ND	5.0	ug/l						
Carbon tetrachloride	ND	5.0	ug/l						
Benzene	ND	5.0	ug/l						
1,2-Dichloroethane	ND	5.0	ug/l						
Trichloroethene	ND	5.0	ug/l						
1,2-Dichloropropane	ND	5.0	ug/l						
Bromodichloromethane	ND	5.0	ug/l						
Dibromomethane	ND	5.0	ug/l						
2-Chloroethyl vinyl ether	ND	10.0	ug/l						
4-Methyl-2-pentanone	ND	50.0	ug/l						
cis-1,3-Dichloropropene	ND	5.0	ug/l						

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11319 - Volatiles</b>									
<b>Blank (CG11319-BLK1)</b>					Prepared & Analyzed: 07/05/01				
Toluene	ND	5.0	ug/l						
Ethyl methacrylate	ND	5.0	ug/l						
trans-1,3-Dichloropropene	ND	5.0	ug/l						
1,1,2-Trichloroethane	ND	5.0	ug/l						
2-Hexanone	ND	50.0	ug/l						
1,3-Dichloropropane	ND	5.0	ug/l						
1,1,2,2-Tetrachloroethane	ND	5.0	ug/l						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/l						
Ethylene dibromide	ND	5.0	ug/l						
Chlorobenzene	ND	5.0	ug/l						
Ethylbenzene	ND	5.0	ug/l						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/l						
p,m-Xylene	ND	5.0	ug/l						
o-Xylene	ND	5.0	ug/l						
Styrene	ND	5.0	ug/l						
Isopropylbenzene	ND	5.0	ug/l						
Bromoform	ND	5.0	ug/l						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/l						
1,2,3-Trichloropropane	ND	5.0	ug/l						
n-Propylbenzene	ND	10.0	ug/l						
Bromobenzene	ND	10.0	ug/l						
2-Chlorotoluene	ND	10.0	ug/l						
1,3,5-Trimethylbenzene	ND	10.0	ug/l						
4-Chlorotoluene	ND	10.0	ug/l						
tert-Butylbenzene	ND	10.0	ug/l						
1,2,4-Trimethylbenzene	ND	10.0	ug/l						
sec-Butylbenzene	ND	10.0	ug/l						
p-Isopropyltoluene	ND	10.0	ug/l						
1,3-Dichlorobenzene	ND	10.0	ug/l						
1,4-Dichlorobenzene	ND	10.0	ug/l						
n-Butylbenzene	ND	10.0	ug/l						
1,2-Dichlorobenzene	ND	10.0	ug/l						

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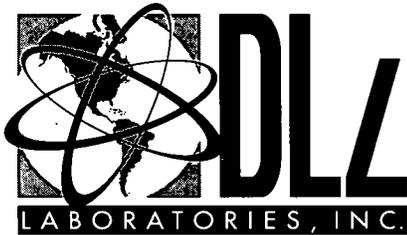
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC %REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11319 - Volatiles</b>									
<b>Blank (CG11319-BLK1)</b>					Prepared & Analyzed: 07/05/01				
1,2-Dibromo-3-chloropropane	ND	10.0	ug/l						
1,2,4-Trichlorobenzene	ND	10.0	ug/l						
Hexachlorobutadiene	ND	10.0	ug/l						
Naphthalene	ND	10.0	ug/l						
1,2,3-Trichlorobenzene	ND	10.0	ug/l						
Surrogate: Dibromofluoromethane	48.3		ug/l	50.0		96.6 80-120			
Surrogate: d4-1,2-Dichloroethane	51.7		ug/l	50.0		103 80-120			
Surrogate: d8-Toluene	49.6		ug/l	50.0		99.2 80-120			
Surrogate: Bromofluorobenzene	47.3		ug/l	50.0		94.6 80-120			
<b>LCS (CG11319-BS1)</b>					Prepared & Analyzed: 07/05/01				
Dichlorodifluoromethane	17.0	10.0	ug/l	20.0		85.0 70-130			
Chloromethane	16.7	10.0	ug/l	20.0		83.5 70-130			
Vinyl chloride	18.4	10.0	ug/l	20.0		92.0 70-130			
Bromomethane	21.8	10.0	ug/l	20.0		109 70-130			
Chloroethane	21.7	10.0	ug/l	20.0		108 70-130			
Trichlorofluoromethane	21.0	5.0	ug/l	20.0		105 70-130			
Acrolein	ND	100	ug/l	40.0		102 70-130			
Acetone	ND	100	ug/l	20.0		86.5 70-130			
1,1-Dichloroethene	20.7	5.0	ug/l	20.0		104 70-130			
Methylene chloride	18.0	5.0	ug/l	20.0		90.0 70-130			
Carbon disulfide	ND	100	ug/l	20.0		91.0 70-130			
Acrylonitrile	ND	100	ug/l	20.0		83.0 70-130			
trans-1,2-Dichloroethene	19.0	5.0	ug/l	20.0		95.0 70-130			
1,1-Dichloroethane	18.9	5.0	ug/l	20.0		94.5 70-130			
Vinyl acetate	ND	50.0	ug/l	20.0		88.5 70-130			
Methyl ethyl ketone	ND	100	ug/l	20.0		82.0 70-130			
2,2-Dichloropropane	18.8	5.0	ug/l	20.0		94.0 70-130			
cis-1,2-Dichloroethene	17.8	5.0	ug/l	20.0		89.0 70-130			
Bromochloromethane	19.0	5.0	ug/l	20.0		95.0 70-130			
Chloroform	18.5	5.0	ug/l	20.0		92.5 70-130			
1,1,1-Trichloroethane	18.1	5.0	ug/l	20.0		90.5 70-130			

Reportable Detection Limit



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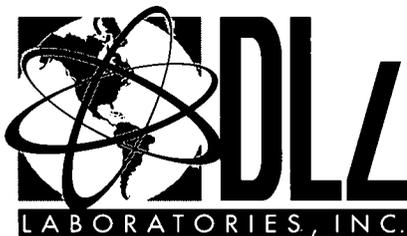
Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

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 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11319 - Volatiles</b>										
<b>LCS (CG11319-BS1)</b>										
Prepared & Analyzed: 07/05/01										
1,1-Dichloropropene	18.4	5.0	ug/l	20.0		92.0	70-130			
Carbon tetrachloride	17.8	5.0	ug/l	20.0		89.0	70-130			
Benzene	18.4	5.0	ug/l	20.0		92.0	70-130			
1,2-Dichloroethane	18.3	5.0	ug/l	20.0		91.5	70-130			
Trichloroethene	18.3	5.0	ug/l	20.0		91.5	70-130			
1,2-Dichloropropane	17.7	5.0	ug/l	20.0		88.5	70-130			
m-dichloromethane	18.9	5.0	ug/l	20.0		94.5	70-130			
p-dichloromethane	18.1	5.0	ug/l	20.0		90.5	70-130			
2-Chloroethyl vinyl ether	21.6	10.0	ug/l	20.0		108	70-130			
4-Methyl-2-pentanone	ND	50.0	ug/l	20.0		89.0	70-130			
cis-1,3-Dichloropropene	17.8	5.0	ug/l	20.0		89.0	70-130			
Toluene	17.6	5.0	ug/l	20.0		88.0	70-130			
Ethyl methacrylate	17.5	5.0	ug/l	20.0		87.5	70-130			
trans-1,3-Dichloropropene	17.7	5.0	ug/l	20.0		88.5	70-130			
1,1,2-Trichloroethane	17.6	5.0	ug/l	20.0		88.0	70-130			
2-Hexanone	ND	50.0	ug/l	20.0		83.5	70-130			
1,3-Dichloropropane	17.5	5.0	ug/l	20.0		87.5	70-130			
Tetrachloroethene	18.8	5.0	ug/l	20.0		94.0	70-130			
Chlorodibromomethane	17.4	5.0	ug/l	20.0		87.0	70-130			
Ethylene dibromide	17.5	5.0	ug/l	20.0		87.5	70-130			
Chlorobenzene	17.5	5.0	ug/l	20.0		87.5	70-130			
Ethylbenzene	17.8	5.0	ug/l	20.0		89.0	70-130			
1,1,1,2-Tetrachloroethane	17.4	5.0	ug/l	20.0		87.0	70-130			
p,m-Xylene	34.2	5.0	ug/l	40.0		85.5	70-130			
o-Xylene	16.8	5.0	ug/l	20.0		84.0	70-130			
Styrene	16.9	5.0	ug/l	20.0		84.5	70-130			
Isopropylbenzene	17.1	5.0	ug/l	20.0		85.5	70-130			
Bromoform	17.2	5.0	ug/l	20.0		86.0	70-130			
1,1,2,2-Tetrachloroethane	16.0	5.0	ug/l	20.0		80.0	70-130			
1,2,3-Trichloropropane	16.2	5.0	ug/l	20.0		81.0	70-130			
n-Propylbenzene	17.3	10.0	ug/l	20.0		86.5	70-130			
Bromobenzene	16.6	10.0	ug/l	20.0		83.0	70-130			

Reportable Detection Limit



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Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

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 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Flag
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**Batch CG11319 - Volatiles**

**LCS (CG11319-BS1)**

Prepared & Analyzed: 07/05/01

2-Chlorotoluene	16.0	10.0	ug/l	20.0		80.0	70-130			
1,3,5-Trimethylbenzene	16.2	10.0	ug/l	20.0		81.0	70-130			
4-Chlorotoluene	16.1	10.0	ug/l	20.0		80.5	70-130			
tert-Butylbenzene	16.3	10.0	ug/l	20.0		81.5	70-130			
1,2,4-Trimethylbenzene	15.8	10.0	ug/l	20.0		79.0	70-130			
sec-Butylbenzene	16.6	10.0	ug/l	20.0		83.0	70-130			
isopropyltoluene	16.3	10.0	ug/l	20.0		81.5	70-130			
Dichlorobenzene	17.2	10.0	ug/l	20.0		86.0	70-130			
1,4-Dichlorobenzene	15.7	10.0	ug/l	20.0		78.5	70-130			
n-Butylbenzene	16.2	10.0	ug/l	20.0		81.0	70-130			
1,2-Dichlorobenzene	15.8	10.0	ug/l	20.0		79.0	70-130			
1,2-Dibromo-3-chloropropane	14.7	10.0	ug/l	20.0		73.5	70-130			
1,2,4-Trichlorobenzene	14.7	10.0	ug/l	20.0		73.5	70-130			
Hexachlorobutadiene	15.7	10.0	ug/l	20.0		78.5	70-130			
Naphthalene	15.7	10.0	ug/l	20.0		78.5	70-130			
1,2,3-Trichlorobenzene	14.8	10.0	ug/l	20.0		74.0	70-130			
Surrogate: Dibromofluoromethane	51.1		ug/l	50.0		102	80-120			
Surrogate: d4-1,2-Dichloroethane	51.8		ug/l	50.0		104	80-120			
Surrogate: d8-Toluene	50.5		ug/l	50.0		101	80-120			
Surrogate: Bromofluorobenzene	48.2		ug/l	50.0		96.4	80-120			

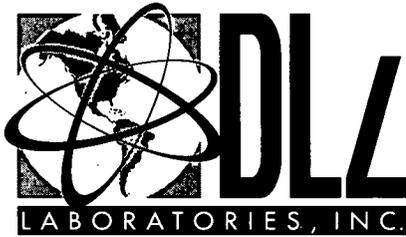
**Batch CG11321 - Volatiles**

**Blank (CG11321-BLK1)**

Prepared & Analyzed: 07/10/01

Dichlorodifluoromethane	ND		10.0 ug/kg							
Chloromethane	ND		10.0 ug/kg							
Vinyl chloride	ND		10.0 ug/kg							
Bromomethane	ND		10.0 ug/kg							
Chloroethane	ND		10.0 ug/kg							
Trichlorofluoromethane	ND		5.0 ug/kg							
Acrolein	ND		100 ug/kg							
Acetone	ND		100 ug/kg							
1,1-Dichloroethene	ND		5.0 ug/kg							

Reportable Detection Limit



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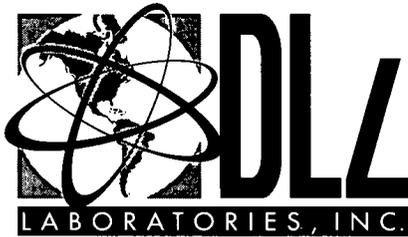
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11321 - Volatiles</b>									
<b>Blank (CG11321-BLK1)</b>					Prepared & Analyzed: 07/10/01				
Methylene chloride	ND	5.0	ug/kg						
Carbon disulfide	ND	100	ug/kg						
Acrylonitrile	ND	100	ug/kg						
trans-1,2-Dichloroethene	ND	5.0	ug/kg						
1,1-Dichloroethane	ND	5.0	ug/kg						
Vinyl acetate	ND	50.0	ug/kg						
ethyl ethyl ketone	ND	100	ug/kg						
1,1-Dichloropropane	ND	5.0	ug/kg						
cis-1,2-Dichloroethene	ND	5.0	ug/kg						
Bromochloromethane	ND	5.0	ug/kg						
Chloroform	ND	5.0	ug/kg						
1,1,1-Trichloroethane	ND	5.0	ug/kg						
1,1-Dichloropropene	ND	5.0	ug/kg						
Carbon tetrachloride	ND	5.0	ug/kg						
Benzene	ND	5.0	ug/kg						
1,2-Dichloroethane	ND	5.0	ug/kg						
Trichloroethene	ND	5.0	ug/kg						
1,2-Dichloropropane	ND	5.0	ug/kg						
Bromodichloromethane	ND	5.0	ug/kg						
Dibromomethane	ND	5.0	ug/kg						
2-Chloroethyl vinyl ether	ND	10.0	ug/kg						
4-Methyl-2-pentanone	ND	50.0	ug/kg						
cis-1,3-Dichloropropene	ND	5.0	ug/kg						
Toluene	ND	5.0	ug/kg						
Ethyl methacrylate	ND	5.0	ug/kg						
trans-1,3-Dichloropropene	ND	5.0	ug/kg						
1,1,2-Trichloroethane	ND	5.0	ug/kg						
2-Hexanone	ND	50.0	ug/kg						
1,3-Dichloropropane	ND	5.0	ug/kg						
Tetrachloroethene	ND	5.0	ug/kg						
Chlorodibromomethane	ND	5.0	ug/kg						
Ethylene dibromide	ND	5.0	ug/kg						

portable Detection Limit



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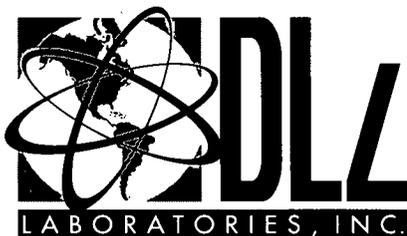
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11321 - Volatiles</b>									
<b>Blank (CG11321-BLK1)</b>				Prepared & Analyzed: 07/10/01					
Chlorobenzene	ND	5.0	ug/kg						
Ethylbenzene	ND	5.0	ug/kg						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg						
p,m-Xylene	ND	5.0	ug/kg						
o-Xylene	ND	5.0	ug/kg						
Styrene	ND	5.0	ug/kg						
Propylbenzene	ND	5.0	ug/kg						
Formaldehyde	ND	5.0	ug/kg						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg						
1,2,3-Trichloropropane	ND	5.0	ug/kg						
n-Propylbenzene	ND	10.0	ug/kg						
Bromobenzene	ND	10.0	ug/kg						
2-Chlorotoluene	ND	10.0	ug/kg						
1,3,5-Trimethylbenzene	ND	10.0	ug/kg						
4-Chlorotoluene	ND	10.0	ug/kg						
tert-Butylbenzene	ND	10.0	ug/kg						
1,2,4-Trimethylbenzene	ND	10.0	ug/kg						
sec-Butylbenzene	ND	10.0	ug/kg						
p-Isopropyltoluene	ND	10.0	ug/kg						
1,3-Dichlorobenzene	ND	10.0	ug/kg						
1,4-Dichlorobenzene	ND	10.0	ug/kg						
n-Butylbenzene	ND	10.0	ug/kg						
1,2-Dichlorobenzene	ND	10.0	ug/kg						
1,2-Dibromo-3-chloropropane	ND	10.0	ug/kg						
1,2,4-Trichlorobenzene	ND	10.0	ug/kg						
Hexachlorobutadiene	ND	10.0	ug/kg						
Naphthalene	ND	10.0	ug/kg						
1,2,3-Trichlorobenzene	ND	10.0	ug/kg						
Surrogate: Dibromofluoromethane	54.1		ug/kg	50.0		108		80-120	
Surrogate: d4-1,2-Dichloroethane	56.2		ug/kg	50.0		112		80-120	
Surrogate: d8-Toluene	50.1		ug/kg	50.0		100		80-120	
Surrogate: Bromofluorobenzene	56.8		ug/kg	50.0		114		80-120	

Reportable Detection Limit



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 INDUSTRIAL HYGIENE

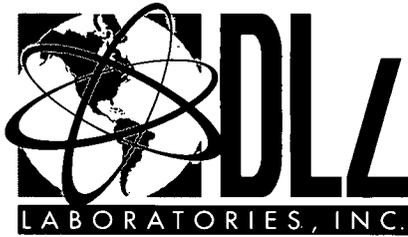
Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

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 Project #: DNE 010628-HW  
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Flag
<b>Batch CG11321 - Volatiles</b>										
<b>LCS (CG11321-BS1)</b>				<b>Prepared &amp; Analyzed: 07/10/01</b>						
Dichlorodifluoromethane	23.4	10.0	ug/kg	20.0		117	70-130			
Chloromethane	21.2	10.0	ug/kg	20.0		106	70-130			
Vinyl chloride	23.1	10.0	ug/kg	20.0		116	70-130			
Bromomethane	27.2	10.0	ug/kg	20.0		136	70-130			LCS-H
Chloroethane	26.7	10.0	ug/kg	20.0		134	70-130			LCS-H
Trichlorofluoromethane	24.8	5.0	ug/kg	20.0		124	70-130			
olein	ND	100	ug/kg	40.0		120	70-130			
acetone	ND	100	ug/kg	20.0		120	70-130			
1,1-Dichloroethene	24.0	5.0	ug/kg	20.0		120	70-130			
Methylene chloride	22.7	5.0	ug/kg	20.0		114	70-130			
Carbon disulfide	ND	100	ug/kg	20.0		106	70-130			
Acrylonitrile	ND	100	ug/kg	20.0		114	70-130			
trans-1,2-Dichloroethene	21.9	5.0	ug/kg	20.0		110	70-130			
1,1-Dichloroethane	21.1	5.0	ug/kg	20.0		106	70-130			
Vinyl acetate	ND	50.0	ug/kg	20.0		96.5	70-130			
Methyl ethyl ketone	ND	100	ug/kg	20.0		114	70-130			
2,2-Dichloropropane	19.6	5.0	ug/kg	20.0		98.0	70-130			
cis-1,2-Dichloroethene	20.5	5.0	ug/kg	20.0		102	70-130			
Bromochloromethane	21.5	5.0	ug/kg	20.0		108	70-130			
Chloroform	20.5	5.0	ug/kg	20.0		102	70-130			
1,1,1-Trichloroethane	21.5	5.0	ug/kg	20.0		108	70-130			
1,1-Dichloropropene	20.2	5.0	ug/kg	20.0		101	70-130			
Carbon tetrachloride	21.2	5.0	ug/kg	20.0		106	70-130			
Benzene	20.8	5.0	ug/kg	20.0		104	70-130			
1,2-Dichloroethane	22.7	5.0	ug/kg	20.0		114	70-130			
Trichloroethene	20.6	5.0	ug/kg	20.0		103	70-130			
1,2-Dichloropropane	20.2	5.0	ug/kg	20.0		101	70-130			
Bromodichloromethane	22.2	5.0	ug/kg	20.0		111	70-130			
Dibromomethane	22.9	5.0	ug/kg	20.0		114	70-130			
2-Chloroethyl vinyl ether	31.6	10.0	ug/kg	20.0		158	70-130			
4-Methyl-2-pentanone	ND	50.0	ug/kg	20.0		114	70-130			LCS-H
cis-1,3-Dichloropropene	20.2	5.0	ug/kg	20.0		101	70-130			

portable Detection Limit



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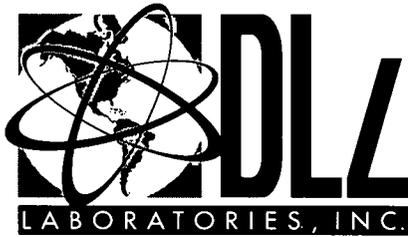
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11321 - Volatiles</b>										
<b>LCS (CG11321-BS1)</b>										
Prepared & Analyzed: 07/10/01										
Toluene	18.4	5.0 ug/kg		20.0		92.0	70-130			
Ethyl methacrylate	19.2	5.0 ug/kg		20.0		96.0	70-130			
trans-1,3-Dichloropropene	19.0	5.0 ug/kg		20.0		95.0	70-130			
1,1,2-Trichloroethane	18.2	5.0 ug/kg		20.0		91.0	70-130			
2-Hexanone	ND	50.0 ug/kg		20.0		110	70-130			
1,3-Dichloropropane	18.7	5.0 ug/kg		20.0		93.5	70-130			
1,1-Dichloroethene	21.1	5.0 ug/kg		20.0		106	70-130			
1,1-Dibromomethane	21.0	5.0 ug/kg		20.0		105	70-130			
Ethylene dibromide	19.4	5.0 ug/kg		20.0		97.0	70-130			
Chlorobenzene	19.5	5.0 ug/kg		20.0		97.5	70-130			
Ethylbenzene	19.1	5.0 ug/kg		20.0		95.5	70-130			
1,1,1,2-Tetrachloroethane	19.8	5.0 ug/kg		20.0		99.0	70-130			
p,m-Xylene	39.8	5.0 ug/kg		40.0		99.5	70-130			
o-Xylene	20.2	5.0 ug/kg		20.0		101	70-130			
Styrene	20.7	5.0 ug/kg		20.0		104	70-130			
Isopropylbenzene	20.1	5.0 ug/kg		20.0		100	70-130			
Bromoform	23.8	5.0 ug/kg		20.0		119	70-130			
1,1,2,2-Tetrachloroethane	21.0	5.0 ug/kg		20.0		105	70-130			
1,2,3-Trichloropropane	21.9	5.0 ug/kg		20.0		110	70-130			
n-Propylbenzene	18.9	10.0 ug/kg		20.0		94.5	70-130			
Bromobenzene	19.2	10.0 ug/kg		20.0		96.0	70-130			
2-Chlorotoluene	18.1	10.0 ug/kg		20.0		90.5	70-130			
1,3,5-Trimethylbenzene	18.6	10.0 ug/kg		20.0		93.0	70-130			
4-Chlorotoluene	18.6	10.0 ug/kg		20.0		93.0	70-130			
tert-Butylbenzene	18.8	10.0 ug/kg		20.0		94.0	70-130			
1,2,4-Trimethylbenzene	18.4	10.0 ug/kg		20.0		92.0	70-130			
sec-Butylbenzene	19.1	10.0 ug/kg		20.0		95.5	70-130			
p-Isopropyltoluene	18.3	10.0 ug/kg		20.0		91.5	70-130			
1,3-Dichlorobenzene	19.0	10.0 ug/kg		20.0		95.0	70-130			
1,4-Dichlorobenzene	17.4	10.0 ug/kg		20.0		87.0	70-130			
n-Butylbenzene	17.8	10.0 ug/kg		20.0		89.0	70-130			
1,2-Dichlorobenzene	16.9	10.0 ug/kg		20.0		84.5	70-130			

Reportable Detection Limit



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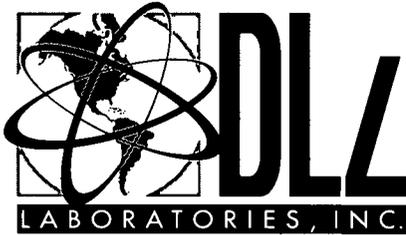
Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

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 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Flag
<b>Batch CG11321 - Volatiles</b>										
<b>LCS (CG11321-BS1)</b>										
Prepared & Analyzed: 07/10/01										
1,2-Dibromo-3-chloropropane	18.8	10.0	ug/kg	20.0		94.0	70-130			
1,2,4-Trichlorobenzene	16.9	10.0	ug/kg	20.0		84.5	70-130			
Hexachlorobutadiene	17.3	10.0	ug/kg	20.0		86.5	70-130			
Naphthalene	18.4	10.0	ug/kg	20.0		92.0	70-130			
1,2,3-Trichlorobenzene	17.1	10.0	ug/kg	20.0		85.5	70-130			
Surrogate: Dibromofluoromethane	54.2		ug/kg	50.0		108	80-120			
Surrogate: d4-1,2-Dichloroethane	56.6		ug/kg	50.0		113	80-120			
Surrogate: d8-Toluene	50.4		ug/kg	50.0		101	80-120			
Surrogate: Bromofluorobenzene	55.4		ug/kg	50.0		111	80-120			
<b>Matrix Spike (CG11321-MS1)</b>										
Source: C1F0263-16 Prepared & Analyzed: 07/10/01										
Dichlorodifluoromethane	4170000	952000	ug/kg	4760000	ND	87.6	70-130			
Chloromethane	3810000	952000	ug/kg	4760000	ND	80.0	70-130			
Vinyl chloride	4640000	952000	ug/kg	4760000	ND	97.5	70-130			
Bromomethane	2510000	952000	ug/kg	4760000	ND	52.7	70-130			QM-05
Chloroethane	1540000	952000	ug/kg	4760000	ND	32.4	70-130			QM-05
Trichlorofluoromethane	1560000	476000	ug/kg	4760000	ND	32.8	70-130			QM-05
Acrolein	ND	9520000	ug/kg	9520000	ND	78.8	70-130			
Acetone	ND	9520000	ug/kg	4760000	ND	93.7	70-130			
1,1-Dichloroethene	4580000	476000	ug/kg	4760000	ND	96.2	70-130			
Methylene chloride	3960000	476000	ug/kg	4760000	ND	83.2	70-130			
Carbon disulfide	ND	9520000	ug/kg	4760000	ND	81.6	70-130			
Acrylonitrile	ND	9520000	ug/kg	4760000	ND	96.0	70-130			
trans-1,2-Dichloroethene	5090000	476000	ug/kg	4760000	ND	107	70-130			
1,1-Dichloroethane	3330000	476000	ug/kg	4760000	ND	70.0	70-130			
Vinyl acetate	ND	4760000	ug/kg	4760000	ND	82.4	70-130			
Methyl ethyl ketone	ND	9520000	ug/kg	4760000	ND	99.4	70-130			
2,2-Dichloropropane	4280000	476000	ug/kg	4760000	ND	89.9	70-130			
cis-1,2-Dichloroethene	4520000	476000	ug/kg	4760000	ND	95.0	70-130			
Bromochloromethane	4250000	476000	ug/kg	4760000	ND	89.3	70-130			
Chloroform	4180000	476000	ug/kg	4760000	ND	87.8	70-130			
1,1,1-Trichloroethane	5260000	476000	ug/kg	4760000	ND	111	70-130			

Reportable Detection Limit



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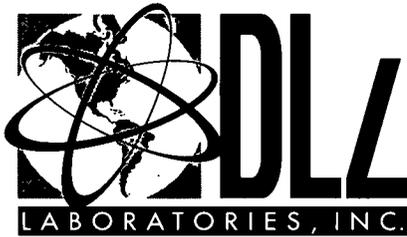
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Project: ARC (Cuyahoga County)  
Project #: DNE 010628-HW  
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11321 - Volatiles</b>										
<b>Matrix Spike (CG11321-MS1)</b>		<b>Source: C1F0263-16</b>			<b>Prepared &amp; Analyzed: 07/10/01</b>					
1,1-Dichloropropene	5150000	476000	ug/kg	4760000	ND	108	70-130			
Carbon tetrachloride	5050000	476000	ug/kg	4760000	ND	106	70-130			
Benzene	5110000	476000	ug/kg	4760000	ND	107	70-130			
1,2-Dichloroethane	4640000	476000	ug/kg	4760000	ND	97.5	70-130			
Trichloroethene	5220000	476000	ug/kg	4760000	ND	110	70-130			
1,2-Dichloropropane	4760000	476000	ug/kg	4760000	ND	100	70-130			
modichloromethane	4410000	476000	ug/kg	4760000	ND	92.6	70-130			
romomethane	4540000	476000	ug/kg	4760000	ND	95.4	70-130			
2-Chloroethyl vinyl ether	6250000	952000	ug/kg	4760000	ND	131	70-130			LCS-H
4-Methyl-2-pentanone	4790000	4760000	ug/kg	4760000	ND	101	70-130			
cis-1,3-Dichloropropene	4490000	476000	ug/kg	4760000	ND	94.3	70-130			
Toluene	5630000	476000	ug/kg	4760000	ND	112	70-130			
Ethyl methacrylate	5390000	476000	ug/kg	4760000	ND	113	70-130			
trans-1,3-Dichloropropene	5020000	476000	ug/kg	4760000	ND	105	70-130			
1,1,2-Trichloroethane	4800000	476000	ug/kg	4760000	ND	101	70-130			
2-Hexanone	5500000	4760000	ug/kg	4760000	ND	116	70-130			
1,3-Dichloropropane	4960000	476000	ug/kg	4760000	ND	104	70-130			
Tetrachloroethene	6240000	476000	ug/kg	4760000	ND	131	70-130			QM-05
Chlorodibromomethane	4810000	476000	ug/kg	4760000	ND	101	70-130			
Ethylene dibromide	4960000	476000	ug/kg	4760000	ND	104	70-130			
Chlorobenzene	4800000	476000	ug/kg	4760000	ND	101	70-130			
Ethylbenzene	5200000	476000	ug/kg	4760000	ND	101	70-130			
1,1,1,2-Tetrachloroethane	4660000	476000	ug/kg	4760000	ND	97.9	70-130			
p,m-Xylene	10800000	476000	ug/kg	9520000	1440000	98.3	70-130			
o-Xylene	5370000	476000	ug/kg	4760000	700000	98.1	70-130			
Styrene	4830000	476000	ug/kg	4760000	ND	101	70-130			
Isopropylbenzene	4760000	476000	ug/kg	4760000	ND	97.4	70-130			
Bromoform	4590000	476000	ug/kg	4760000	ND	96.4	70-130			
1,1,2,2-Tetrachloroethane	4460000	476000	ug/kg	4760000	ND	93.7	70-130			
1,2,3-Trichloropropane	4640000	476000	ug/kg	4760000	ND	97.5	70-130			
n-Propylbenzene	4990000	952000	ug/kg	4760000	ND	94.9	70-130			
Bromobenzene	4450000	952000	ug/kg	4760000	ND	93.5	70-130			

Reportable Detection Limit



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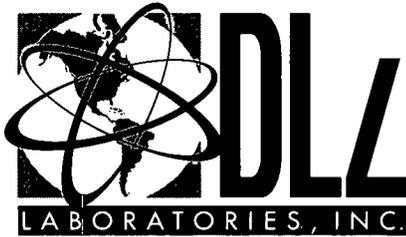
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 Twinsburg OH, 44087

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 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11321 - Volatiles</b>										
<b>Matrix Spike (CG11321-MS1)</b>		<b>Source: C1F0263-16</b>			<b>Prepared &amp; Analyzed: 07/10/01</b>					
2-Chlorotoluene	4150000	952000	ug/kg	4760000	ND	87.2	70-130			
1,3,5-Trimethylbenzene	5480000	952000	ug/kg	4760000	ND	95.2	70-130			
4-Chlorotoluene	4500000	952000	ug/kg	4760000	ND	94.5	70-130			
tert-Butylbenzene	4430000	952000	ug/kg	4760000	ND	93.1	70-130			
1,2,4-Trimethylbenzene	7320000	952000	ug/kg	4760000	2930000	92.2	70-130			
sec-Butylbenzene	4910000	952000	ug/kg	4760000	ND	98.0	70-130			
opropyltoluene	4710000	952000	ug/kg	4760000	ND	94.7	70-130			
Dichlorobenzene	4630000	952000	ug/kg	4760000	ND	97.3	70-130			
1,4-Dichlorobenzene	4280000	952000	ug/kg	4760000	ND	89.9	70-130			
n-Butylbenzene	5500000	952000	ug/kg	4760000	1150000	91.4	70-130			
1,2-Dichlorobenzene	4180000	952000	ug/kg	4760000	ND	87.8	70-130			
1,2-Dibromo-3-chloropropane	3980000	952000	ug/kg	4760000	ND	83.6	70-130			
1,2,4-Trichlorobenzene	3760000	952000	ug/kg	4760000	ND	79.0	70-130			
Hexachlorobutadiene	4010000	952000	ug/kg	4760000	ND	84.2	70-130			
Naphthalene	4480000	952000	ug/kg	4760000	ND	86.7	70-130			
1,2,3-Trichlorobenzene	3710000	952000	ug/kg	4760000	ND	77.9	70-130			
Surrogate: Dibromofluoromethane	201		ug/kg	238		84.5	80-120			
Surrogate: d4-1,2-Dichloroethane	232		ug/kg	238		97.5	80-120			
Surrogate: d8-Toluene	226		ug/kg	238		95.0	80-120			
Surrogate: Bromofluorobenzene	231		ug/kg	238		97.1	80-120			
<b>Matrix Spike Dup (CG11321-MSD1)</b>		<b>Source: C1F0263-16</b>			<b>Prepared &amp; Analyzed: 07/10/01</b>					
Dichlorodifluoromethane	4040000	952000	ug/kg	4760000	ND	84.9	70-130	3.17	20	
Chloromethane	3590000	952000	ug/kg	4760000	ND	75.4	70-130	5.95	20	
Vinyl chloride	4430000	952000	ug/kg	4760000	ND	93.1	70-130	4.63	20	
Bromomethane	2220000	952000	ug/kg	4760000	ND	46.6	70-130	12.3	20	QM-05
Chloroethane	1480000	952000	ug/kg	4760000	ND	31.1	70-130	3.97	20	QM-05
Trichlorofluoromethane	1600000	476000	ug/kg	4760000	ND	33.6	70-130	2.53	20	QM-05
Acrolein	ND	9520000	ug/kg	9520000	ND	79.0	70-130	0.266	20	
Acetone	ND	9520000	ug/kg	4760000	ND	89.1	70-130	5.06	20	
1,1-Dichloroethene	4870000	476000	ug/kg	4760000	ND	102	70-130	6.14	20	
Methylene chloride	4000000	476000	ug/kg	4760000	ND	84.0	70-130	1.01	20	

Reportable Detection Limit



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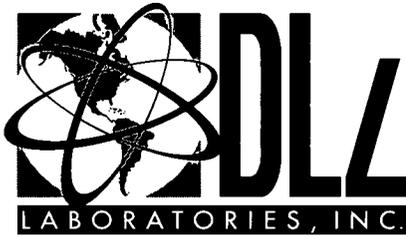
Client Name: OEPA (NEDO)  
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 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11321 - Volatiles</b>										
<b>Matrix Spike Dup (CG11321-MSD1)</b>		<b>Source: C1F0263-16</b>			<b>Prepared &amp; Analyzed: 07/10/01</b>					
Carbon disulfide	ND	9520000	ug/kg	4760000	ND	81.0	70-130	0.762	20	
Acrylonitrile	ND	9520000	ug/kg	4760000	ND	96.4	70-130	0.437	20	
trans-1,2-Dichloroethene	5120000	476000	ug/kg	4760000	ND	108	70-130	0.588	20	
1,1-Dichloroethane	3940000	476000	ug/kg	4760000	ND	82.8	70-130	16.8	20	
Vinyl acetate	ND	4760000	ug/kg	4760000	ND	88.2	70-130	6.90	20	
Methyl ethyl ketone	ND	9520000	ug/kg	4760000	ND	95.4	70-130	4.10	20	
Dichloropropane	4340000	476000	ug/kg	4760000	ND	91.2	70-130	1.39	20	
1,2-Dichloroethene	4540000	476000	ug/kg	4760000	ND	95.4	70-130	0.442	20	
Bromochloromethane	4340000	476000	ug/kg	4760000	ND	91.2	70-130	2.10	20	
Chloroform	4190000	476000	ug/kg	4760000	ND	88.0	70-130	0.239	20	
1,1,1-Trichloroethane	5250000	476000	ug/kg	4760000	ND	110	70-130	0.190	20	
1,1-Dichloropropene	5090000	476000	ug/kg	4760000	ND	107	70-130	1.17	20	
Carbon tetrachloride	5070000	476000	ug/kg	4760000	ND	107	70-130	0.395	20	
Benzene	5050000	476000	ug/kg	4760000	ND	106	70-130	1.18	20	
1,2-Dichloroethane	4600000	476000	ug/kg	4760000	ND	96.6	70-130	0.866	20	
Trichloroethene	5060000	476000	ug/kg	4760000	ND	106	70-130	3.11	20	
1,2-Dichloropropane	4740000	476000	ug/kg	4760000	ND	99.6	70-130	0.421	20	
Bromodichloromethane	4310000	476000	ug/kg	4760000	ND	90.5	70-130	2.29	20	
Dibromomethane	4330000	476000	ug/kg	4760000	ND	91.0	70-130	4.74	20	
2-Chloroethyl vinyl ether	5900000	952000	ug/kg	4760000	ND	124	70-130	5.76	20	
4-Methyl-2-pentanone	ND	4760000	ug/kg	4760000	ND	97.7	70-130	2.97	20	
cis-1,3-Dichloropropene	4300000	476000	ug/kg	4760000	ND	90.3	70-130	4.32	20	
Toluene	5920000	476000	ug/kg	4760000	ND	118	70-130	5.02	20	
Ethyl methacrylate	5470000	476000	ug/kg	4760000	ND	115	70-130	1.47	20	
trans-1,3-Dichloropropene	4910000	476000	ug/kg	4760000	ND	103	70-130	2.22	20	
1,1,2-Trichloroethane	4780000	476000	ug/kg	4760000	ND	100	70-130	0.418	20	
2-Hexanone	5390000	4760000	ug/kg	4760000	ND	113	70-130	2.02	20	
1,3-Dichloropropane	5060000	476000	ug/kg	4760000	ND	106	70-130	2.00	20	
Tetrachloroethene	6060000	476000	ug/kg	4760000	ND	127	70-130	2.93	20	
Chlorodibromomethane	4650000	476000	ug/kg	4760000	ND	97.7	70-130	3.38	20	
Ethylene dibromide	4920000	476000	ug/kg	4760000	ND	103	70-130	0.810	20	
Chlorobenzene	4830000	476000	ug/kg	4760000	ND	101	70-130	0.623	20	

portable Detection Limit



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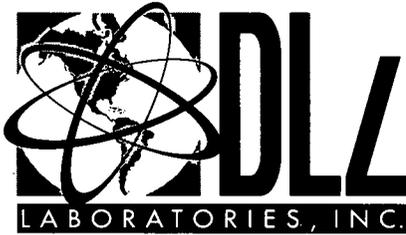
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Flag
<b>Batch CG11321 - Volatiles</b>										
<b>Matrix Spike Dup-(CG11321-MSD1) Source: C1F0263-16 Prepared &amp; Analyzed: 07/10/01</b>										
Ethylbenzene	5370000	476000	ug/kg	4760000	ND	105	70-130	3.22	20	
1,1,1,2-Tetrachloroethane	4570000	476000	ug/kg	4760000	ND	96.0	70-130	1.95	20	
p,m-Xylene	11000000	476000	ug/kg	9520000	1440000	100	70-130	1.83	20	
o-Xylene	5220000	476000	ug/kg	4760000	700000	95.0	70-130	2.83	20	
Styrene	4700000	476000	ug/kg	4760000	ND	98.7	70-130	2.73	20	
Isopropylbenzene	4700000	476000	ug/kg	4760000	ND	96.1	70-130	1.27	20	
mofom	4400000	476000	ug/kg	4760000	ND	92.4	70-130	4.23	20	
1,1,2,2-Tetrachloroethane	4640000	476000	ug/kg	4760000	ND	97.5	70-130	3.96	20	
1,2,3-Trichloropropane	4500000	476000	ug/kg	4760000	ND	94.5	70-130	3.06	20	
n-Propylbenzene	5000000	952000	ug/kg	4760000	ND	95.1	70-130	0.200	20	
Bromobenzene	4440000	952000	ug/kg	4760000	ND	93.3	70-130	0.225	20	
2-Chlorotoluene	4280000	952000	ug/kg	4760000	ND	89.9	70-130	3.08	20	
1,3,5-Trimethylbenzene	5590000	952000	ug/kg	4760000	ND	97.5	70-130	1.99	20	
4-Chlorotoluene	4550000	952000	ug/kg	4760000	ND	95.6	70-130	1.10	20	
tert-Butylbenzene	4460000	952000	ug/kg	4760000	ND	93.7	70-130	0.675	20	
1,2,4-Trimethylbenzene	7490000	952000	ug/kg	4760000	2930000	95.8	70-130	2.30	20	
sec-Butylbenzene	4900000	952000	ug/kg	4760000	ND	97.8	70-130	0.204	20	
p-Isopropyltoluene	4860000	952000	ug/kg	4760000	ND	97.8	70-130	3.13	20	
1,3-Dichlorobenzene	4720000	952000	ug/kg	4760000	ND	99.2	70-130	1.93	20	
1,4-Dichlorobenzene	4360000	952000	ug/kg	4760000	ND	91.6	70-130	1.85	20	
n-Butylbenzene	5600000	952000	ug/kg	4760000	1150000	93.5	70-130	1.80	20	
1,2-Dichlorobenzene	4260000	952000	ug/kg	4760000	ND	89.5	70-130	1.90	20	
1,2-Dibromo-3-chloropropane	4030000	952000	ug/kg	4760000	ND	84.7	70-130	1.25	20	
1,2,4-Trichlorobenzene	3790000	952000	ug/kg	4760000	ND	79.6	70-130	0.795	20	
Hexachlorobutadiene	4030000	952000	ug/kg	4760000	ND	84.7	70-130	0.498	20	
Naphthalene	4520000	952000	ug/kg	4760000	ND	87.6	70-130	0.889	20	
1,2,3-Trichlorobenzene	3720000	952000	ug/kg	4760000	ND	78.2	70-130	0.269	20	
Surrogate: Dibromofluoromethane	199		ug/kg	238		83.6	80-120			
Surrogate: d4-1,2-Dichloroethane	231		ug/kg	238		97.1	80-120			
Surrogate: d8-Toluene	225		ug/kg	238		94.5	80-120			
Surrogate: Bromofluorobenzene	225		ug/kg	238		94.5	80-120			

Reportable Detection Limit



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 INDUSTRIAL HYGIENE

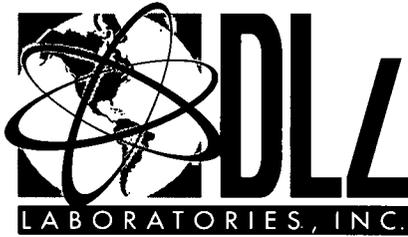
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**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG10317 - General Preparation</b>									
<b>Duplicate (CG10317-DUP1)</b>		<b>Source: C1F0239-01</b>		<b>Prepared &amp; Analyzed: 07/02/01</b>					
% Solids	90.0	%			90		0.0	20	
<b>Duplicate (CG10317-DUP2)</b>		<b>Source: C1F0240-09</b>		<b>Prepared &amp; Analyzed: 07/02/01</b>					
% Solids	88.0	%			88		0.0	20	
<b>Duplicate (CG10317-DUP3)</b>		<b>Source: C1F0263-06</b>		<b>Prepared &amp; Analyzed: 07/02/01</b>					
% Solids	100	%			100		0.0	20	

Reportable Detection Limit



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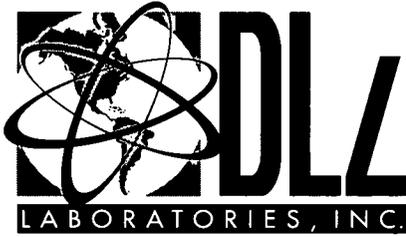
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**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Flag
<b>Batch CG10917 - General Preparation</b>										
<b>Blank (CG10917-BLK1)</b> Prepared & Analyzed: 07/09/01										
Ignitability by Flashpoint	> 200	1	°F							FLSH
<b>Duplicate (CG10917-DUP1)</b> Source: C1F0262-03 Prepared & Analyzed: 07/09/01										
Ignitability by Flashpoint	> 200	1	°F		ND			2	20	FLSH
<b>Duplicate (CG10917-DUP2)</b> Source: C1F0263-16 Prepared & Analyzed: 07/09/01										
Ignitability by Flashpoint	125	1	°F		122			2	20	
<b>Duplicate (CG10917-DUP3)</b> Source: C1F0263-17 Prepared & Analyzed: 07/09/01										
Ignitability by Flashpoint	105	1	°F		113			7	20	
<b>Reference (CG10917-SRM1)</b> Prepared & Analyzed: 07/09/01										
Ignitability by Flashpoint	81	1	°F	81		100	80-120			
<b>Reference (CG10917-SRM2)</b> Prepared & Analyzed: 07/09/01										
Ignitability by Flashpoint	82	1	°F	81		101	80-120			
<b>Batch CG11013 - General Preparation</b>										
<b>Blank (CG11013-BLK1)</b> Prepared & Analyzed: 07/10/01										
Ignitability by Flashpoint	> 200	1	°F							FLSH
<b>Duplicate (CG11013-DUP1)</b> Source: C1F0263-18 Prepared & Analyzed: 07/10/01										
Ignitability by Flashpoint	127	1	°F		141			10	20	
<b>Reference (CG11013-SRM1)</b> Prepared & Analyzed: 07/10/01										
Ignitability by Flashpoint	83	1	°F	81		102	80-120			

Reportable Detection Limit



A DLZ Company  
 ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES  
 INDUSTRIAL HYGIENE

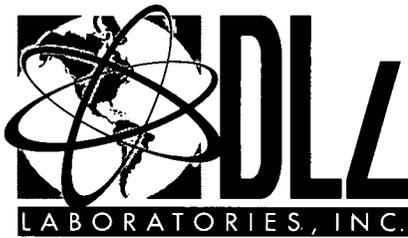
Client Name: OEPA (NEDO)  
 Contact: Gunars Zikmanis  
 Address: 2110 East Aurora Road  
 Twinsburg OH, 44087

Page: Page 68 of 70  
 Project: ARC (Cuyahoga County)  
 Project #: DNE 010628-HW  
 Report Date: 07/18/01 11:02

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch CG11013 - General Preparation</b>										
<b>Reference (CG11013-SRM2)</b>				Prepared & Analyzed: 07/10/01						
Ignitability by Flashpoint	81		1 °F	81		100	80-120			

Reportable Detection Limit



A DLZ Company  
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INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
Contact: Gunars Zikmanis  
Address: 2110 East Aurora Road  
Twinsburg OH, 44087

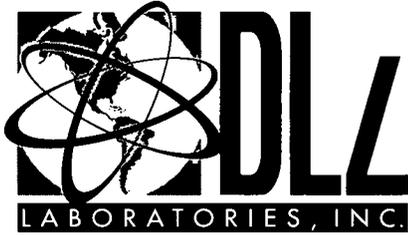
Page: Page 69 of 70  
Project: ARC (Cuyahoga County)  
Project #: DNE 010628-HW  
Report Date: 07/18/01 11:02

### Notes and Definitions

- A-01 Matrix interferences prevented a quantitative analysis being performed by Method 6020. Detection limits are elevated because of severe matrix interferences.
- A-01a Spike percent recovery is high, however sample value is less than the reported detection limit.
- FLSH > 200
- LCS-H Compound recovery in Laboratory Control Sample above acceptance limits. Results should be considered estimates.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- A-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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Reportable Detection Limit



A DLZ Company  
ENVIRONMENTAL TESTING • COMPLIANCE ANALYSES  
INDUSTRIAL HYGIENE

Client Name: OEPA (NEDO)  
Contact: Gunars Zikmanis  
Address: 2110 East Aurora Road  
Twinsburg OH, 44087

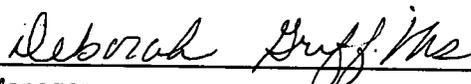
Page: Page 70 of 70  
Project: ARC (Cuyahoga County)  
Project #: DNE 010628-HW  
Report Date: 07/18/01 11:02

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### Approval

Enclosed are the analytical results for the submitted sample(s). DLZ Laboratories certify the data presented as part of this report meets the minimum quality standards in the referenced analytical methods. Any exceptions have been noted. DLZ Laboratories, Inc. and its officers and employees assume no responsibility and make no warranty, express or implied, for uses or interpretations made by any recipients, intended or unintended, of this report.

  
\_\_\_\_\_  
Project Manager

  
\_\_\_\_\_  
Quality Control Manager





CITY TODAY C1F0263  
 I ORD

NAME: GUNARS ZIKMANIS  
 COMPANY: OHIO EPA / NEDO / DHWM  
 ADDRESS: 2110 EAST AURORA RD.  
 CITY: TWINSBURG OHIO STATE OHIO ZIP 44087

SAMPLED BY:  
 P.O. #/PROJECT #: DNE 010628 - HW  
 PHONE NO.: 330 963 1200  
 FAX NO.: 330 487 0769

PROJECT NAME/TYPE: ARC  
 LOCATION: CUYAHOGA COUNTY  
 ANALYSIS REQUESTED:

NAME: ERIC SCHULTZ  
 COMPANY: OHIO EPA / CO / DHWM  
 ADDRESS: P.O. BOX 1049  
 CITY: COLUMBUS OHIO STATE OHIO ZIP 43216

NUMBER OF CONTAINERS / PRESERVATIVE:  
 METHANOL KIT, ENCORE, MONO, NITRIC (HNO3), SULFURIC (H2SO4), NaOH, HCL, FILTERED Y/N  
 TOTAL RCA METAL, TEMP RCA METAL, TOTAL VOCs, FLASH POINT, FLASH POINT FEED, TOTAL PCBs  
 LAB # (LAB USE ONLY) DO NOT WRITE IN THIS COLUMN

ITEM NO.	CLIENT SAMPLE IDENTIFICATION	MATRIX MEDIA	DATE / TIME SAMPLED	GRAB (G) / COMP (C)	ENTER # IN THE BOX	ENTER AN "X" IN THE BOX BELOW TO INDICATE REQUEST														
1	P-51	S	6/28/01 505pm	G	2															
2	P-57	S	6/28/01 510pm	G	2															
3	P-60 MS/MSD	S	6/28/01 512pm	G	4															
4	<del>EB-1</del>	<del>L</del>	<del>6/28/01</del>	<del>L</del>	<del>X</del>															FZ 6/28/01
5	EB-1	L	6/28/01 5:00	G	1						X									
6	SF-1	S	6/28/01 520pm	G	2	2					X	X								
7	S-04	L	6/28/01 1145am	G	4						X			X	X					
8	S-05	L	6/28/01 1158am	G	4						X			X	X					NEAT
9	S-08	L	6/28/01 1209pm	G	4						X			X	X					SOLVENT
10	TRIP BLANK	L										X								

TRANSFER NO.	RELINQUISHED BY	DATE	TIME	ACCEPTED BY	DATE	TIME
1	R. Odemchaw	6/29/01	08:30	William J. Proffitt	6-29-01	0830
2	William J. Proffitt	6/29/01	0835	David [unclear]	6/29/01	0835
3						
4						

ADDITIONAL COMMENTS (PLEASE RECORD SPECIAL HANDLING / HAZARD INFORMATION) PAID IN FULL  YES  NO  
 ICE IN COOLER  
 CC: ERIC SCHULTZ/CO/DHWM WITH RESULTS  
 PER container + client samples to be analyzed for TEMP & TOTAL METALS 8/7/01

**IMPORTANT - TURN AROUND TIME**  
**NOTE: RUSH RESULTS MUST BE APPROVED BY LAB PRIOR TO SUBMITTAL.**  
 DATE RESULTS EXPECTED: 7-29-01  
 24 HR.  48 HR.  5 DAYS  STANDARD

ACCOUNTING

Date/ Analyst	Pan Number	Sample Number	Pan Weight	Pan + Initial Sample	Pan + Final Sample	Pan + Final Sample Second Wt.	Percent Solids
6-24-01 GSE	D	FO251-3	1.2827	7.6923	6.6896	6.6891	84
	E	-4	1.2686	8.4355	6.9187	6.9182	79
	F	-5	1.2493	8.0465	6.6932	6.6928	80
	G	-6	1.2620	7.1074	6.0698	6.0691	82
	H	-7	1.2564	7.8469	6.6487	6.6483	82
7-2-01 GSE	A	FO239-1	1.2686	8.9380	8.1567	8.1560	90
	B	-1	1.2834	9.3554	8.5174	8.5162	90
	C	-2	1.2582	9.0040	8.3281	8.3269	91
	D	FO240-1	1.2623	7.0932	6.4310	6.4291	89
	E	-2	1.2512	7.7561	7.1237	7.1318	90
	F	-3	1.2542	7.6010	6.9230	6.9239	89
	G	-4	1.2713	7.8690	7.2199	7.2199	90
	H	-5	1.2561	7.2041	6.3206	6.3309	85
	I	-6	1.2590	7.4903	6.2773	6.2762	81
	J	-7	1.2735	7.4173	6.5319	6.5336	86
	K	-8	1.2628	7.0135	6.1012	6.1003	84
	L	-9	1.2678	7.5432	6.8047	6.8034	88
	M	-9D	1.2686	7.8139	7.0225	7.0206	88
	N	FO241-1	1.2754	7.1990	1.6930	1.6929	70 FO242-1
	O	FO242-1	1.2736	7.6720	7.0787	7.0763	91 FO241-1
	P	-2	1.2787	7.5502	6.7783	6.7674	88
	Q	-3	1.2619	8.0028	1.3448	1.3449	1.2
	R	FO263-1	1.2788	8.0139	8.0057	8.0051	100
	S	-2	1.2725	7.4536	7.4434	7.4432	100

Date/ Analyst	Pan Number	Sample Number	Pan Weight	Pan + Initial Sample	Pan + Final Sample	Pan + Final Sample Second Wt.	Percent Solids
7-2-01 EJF	T	FO263-3	1.2547	8.6098	8.5989	8.5996	100
	U	-4	1.2428	9.0632	9.0574	9.0572	100
	V	-5	1.2628	8.9426	8.9250	8.9221	100
	W	-6	1.2760	7.8658	7.8419	7.8563	100
	X	-6D	1.2674	7.6076	7.5848	7.5844	100
	Y	-7	1.2521	8.2524	8.2281	8.2283	100
	Z	-8	1.2714	8.1769	8.1685	8.1678	100
	AA	-9	1.2436	8.0637	8.0541	8.0538	100
	BB	-10	1.2614	7.9227	7.9095	7.8661	99
	CC	-11	1.2568	7.9544	7.9464	7.9468	100
	DD	-12	1.2663	7.5569	7.5480	7.5489	100
	EE	-13	1.2621	8.2045	8.1832	8.1815	100
	FF	-15	1.2555	7.4803	7.4704	7.4683	100
	GG	FO270-1	1.2658	7.9622	7.0681	7.0712	87
EJF 7-3-01	A	<del>FO262-2</del>	<del>1.2648</del>	<del>8.0361</del>	<del>1.2852</del>	<del>1.2851</del>	<del>0.30</del>
	B	G0005-1	1.2508	7.2455	6.7407	6.7404	92
	C	-2	1.2548	7.7350	6.3458	6.3456	78
	D	G0009-1	1.2620	7.8534	6.9167	6.9163	86
	E	-1D	1.2686	9.4589	8.4005	8.4000	87
	F	<del>2</del>	1.2626	7.5971	6.5755	6.5752	84
	G	-3	1.2650	7.1844	6.4148	6.4144	87
EJF 7-5-01	A	FO262-4	1.2685	7.5943	6.8790	6.8786	89
	B	-4D	1.2836	7.4001	6.6398	6.6393	88
	C	G0016-1	1.2589	7.9140	7.0430	7.0426	87

LEKAW  
7/5/01  
gm

Date	Analyst	Sample Number	Sample Weight	Initial pH	pH after HCL	Extraction Fluid pH	Volume of Extraction Fluid	Time On	Time Off	pH before filtration	Final pH	RPM
6/7/01	JRS	FO216-2	100.20	11.67	4.37	4.93	2004.00	3:59 PM	11:00	11.32	11.53	31
		EXTR#1				4.93	2000			5.04	5.05	
		EXTR#2				2.93				3.20	3.20	
07/02/01	DRS	CIF0177-01	20g	ZHE	EXTRACT	4.93	400ML	13:45	13:40			31
		CIF0177-014				4.93	400ML					
7.3.01	JRS	CIF0140-11										
		-12										
		-14										
7.3.01	BOY	FO208-1	35.34		NEUTRAL LEARN		200ML	17:00				
		FO208-1	35.83				200ML					
7.6.01	JAT/JRS	FO263-1	160.25	<del>8.91</del> 8.91	1.76	4.98	2005.0	4:40 PM	7:10 am 10:15 am 7:10 am	5.30	5.32	31
		-2	100.38	9.23	1.70		2007.6			5.31	5.31	
		-3	100.01	9.12	1.81		2000.2			5.23	5.24	
		-4	100.11	9.18	1.77		2002.2			5.27	5.28	
		-5	100.04	9.40	1.92		2000.8			5.55	5.55	
		-6	99.99	9.23	2.02		1999.8			5.25	5.26	

M

M

PM

Date	Analyst	Sample Number	Sample Weight	Initial pH	pH after HCL	Extraction Fluid pH	Volume of Extraction Fluid	Time On	Time Off	pH before filtration	Final pH	RPM
7-6-01	JAT/SRS	CIF0263-7	100.02	9.27	2.05	4.98	2000.4	4:40	7:10 10:50 am	5.24	5.25	31
		-8	101.74	9.12	1.86	↓	2034.8		7:10 10:50 am	5.22	5.24	
		-9	101.19	9.36	1.93	4.90	2023.8			4.96	4.97	
		-10	100.13	9.30	1.93	↓	2002.6			5.02	5.03	
		-11	100.62	9.49	1.94	↓	2012.4			5.19	5.22	
		-12	100.25	9.37	2.02	↓	2005.0			5.08	5.10	
		-13	100.05	9.62	2.18	↓	2001.0			5.14	5.14	
		-15	100.22	9.23	1.88	↓	2004.4			5.24	5.25	
		Ext. Fil #1				↓						
7-6-01	JAT/SRS	<del>CIF0263-7</del> CIF0267-1				Direct Filter						
		<del>CIF0263-8</del> CIF0267-1				Direct Filter						
		<del>CIF0263-9</del> CIF0267-1				Direct Filter						
07/09/01	DRB	CIF0262-01	ZHE	120g	EXTRACT	4.92	400ML	17:30	18:30			31
		CIF0262-03		20g	↓	↓	↓	↓	↓			↓
		CIF0262-04		20g	↓	↓	↓	↓	↓			↓
7-10-01	SRS	IP0187-1				DIRECT FILTER						

DLZ LABORATORIES, INC.  
METALS PREP. (AQUEOUS)

00088

Page # \_\_\_\_\_

Date: 7.9.01

Analyst: TRH

Method	Lab #	mL used	Final volume	Standard and Reagent ID's	Comments
TCLP	Blank	50	50	HNO3:	HCL
	Blank Spike			HCL:	
	LCS			LCS:	
CIF 0263-1				Spike:	
	-1s			USACE Spike Witness:	
	-1sp				
	-2				
	-3				
	-4				
	-5				
	-6				
	-7				
	-8				
	-9				
	-10				
	-11				
	-11s				
	-11sp				
	-12				
	-13				
	+ -15	+			
+ CIF	<sup>TOP</sup> 0140-8	1ml	+		+



**DLZ LABORATORIES, INC.**  
**METALS PREP. (Solid)**

Date: 7.5.01

Analyst: TRH

Method	Lab #	g's used	Final volume	Standard and Reagent ID's	Comments
3050	Blank	50	50	HNO3:	HCL
	Blank Spike	+		HCL:	
	LCS	2.07		LCS:	
CIF	0188-1	2.07		Spike:	
	-1s	2.03		H2O2:	
	-1so	2.09		USACE Spike Witness	
	-2	2.04			
	-3	2.08			
	-4	2.09			
	-5	2.04			
	+ -6	2.00			
CIF	0263-1	2.01			
	-1s	2.08			
	-1so	2.04			
	-2	2.05			
	-3	1.99			
	-4	2.00			
	-5	2.00			
	-6	2.02			
	-7	2.09			
	-8	1.99			
+	+ -9	2.03	+		+

**DLZ LABORATORIES, INC.**  
**METALS PREP. (Solid)**

Page # 6

Date: 7.5.01

Analyst: TRH

Method	Lab #	g's used	Final volume	Standard and Reagent ID's	Comments
3050	Blank 2	50	50	HNO3:	HCL
	Blank 2 Spike	+		HCL:	
	LCS 2	2.00		LCS:	
CIF	0263-10	2.00		Spike:	
	-11	2.01		H2O2:	
	-12	2.04		USACE Spike Witness	
	-13	2.03			
	+ -15	2.01			
C16	0003-12	2.08			
	-12s	2.08			
	-12so	2.00			
	-13	2.00			
	-14	2.06			
	-17	2.04			
	-18	2.08			
	+ -25	2.01			
C16	0016-1	2.01			
	-1s	2.04			
	-1so	2.09			
	-2	2.09			
	-3	2.07			
	-4	2.09			
	+ -5	2.04			

DLZ LABORATORIES, INC.  
METALS PREP. (Solid)

Page # 7

Date: 7.5.01

Analyst: TRH

Method	Lab #	g's used	Final volume	Standard and Reagent ID's	Comments
3050	Blank	50	50	HNO3:	HNO3
	Blank Spike	+		HCL:	
	LCS	2.01		LCS:	
C16	0263-1	2.01		Spike:	
	-1s	2.04		H2O2:	
	-1so	2.09		USACE Spike Witness	
	-2	2.03			
	-3	2.09			
	-4	1.99			
	-5	2.05			
	-6	2.08			
	-7	2.00			
	-8	2.03			
	-9	2.06			
	-10	2.03			
	-11	2.00			
	-12	2.08			
	-13	2.03			
	+ -15	2.06			
C16	0003-12	2.03			
	-12s	2.08			
+	+ -12so	2.08	+		+

# DLZ LABORATORIES, INC.

PCB/Pesticides EXTRACTION

Page # 83

Date: 7-9-01

Analyst: SRS

Method #: 3580

Lab #	g or mL used	Final volume	Surrogate Amount	Standard and Solvent ID's
1F0241-2	1.00	10mL	+1mL PCB Surr	MeCl: N/A
↓ -1	1.08		0.5 ug/mL Ref 1910	LCS: +50ul Arochlor 1016 100ug/ml ref. 15186
↓ -151	1.14			1mL +50ul Arochlor 1260 100ug/ml ref. 5
↓ -152	1.04			5
1F0263-16	1.02			
↓ -17	1.01			
↓ -18	1.02			10
1F0241-114	1.00			Spike: +100ul Arochlor 1016 100ug/ml ref. 1520A
↓ -115	1.00			1mL +100ul Arochlor 1260 100ug/ml ref. 10
				Hexane: 2955
				Sodium Sulfate # N/A
				Sulfuric Acid # 2638
				Celite: N/A
				Sand:
				USACE Spike Witness: <input checked="" type="checkbox"/>
				CG 11003
				7-20-01 TIT

Sequence Name: C:\HPCHEM\1\SEQUENCE\0711PCB.S  
 Comment: PCB's by Method 8082  
 Operator: RSG  
 Data Path: C:\HPCHEM\1\DATA\0711PCB\  
 Pre-Seq Cmd:  
 Post-Seq Cmd:

Method Sections To Run      On A Barcode Mismatch  
 (X) Full Method              (X) Inject Anyway  
 ( ) Reprocessing Only        ( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Stagger	-	100		
2	Sample	1	6239	PCB0528	BLANK
3	Sample	2	6240	PCB0528	AMIX@1.0 15-23-C
4	Sample	3	6241	PCB0528	AMIX@0.5 15-23-D
5	Sample	4	6242	PCB0528	A1221@1.0 15-5-C
6	Sample	5	6243	PCB0528	A1232@1.0 15-5-D
7	Sample	6	6244	PCB0528	A1242@1.0 15-6-A
8	Sample	7	6245	PCB0528	A1248@1.0 15-6-B
9	Sample	8	6246	PCB0528	A1254@1.0 15-6-C
10	Sample	9	6247	PCB0528	<del>C1F0142-01</del> <i>CRAP</i>
11	Sample	10	6248	PCB0528	C1F0142-LCS
12	Sample	11	6249	PCB0528	C1F0142-L0
13	Sample	12	6250	PCB0528	C1F0142-LS1
14	Sample	13	6251	PCB0528	<del>C1F0142-LS2</del>
15	Sample	14	6252	PCB0528	C1F0189-02 Hg <i>- compare - no</i>
16	Sample	15	6253	PCB0528	C1F0189-03 Hg <i>- Unpaired - no</i>
17	Sample	16	6254	PCB0528	C1F0263-16@5X <i>- compare</i>
18	Sample	17	6255	PCB0528	C1F0263-17@5X <i>- compare</i>
19	Sample	18	6256	PCB0528	C1F0263-18@5X <i>- compare</i>
20	Sample	2	6257	PCB0528	AMIX@1.0 15-23-C
21	Sample	3	6258	PCB0528	AMIX@0.5 15-23-D
22	Sample	19	6259	PCB0528	C1F0114-01 <i>- ok. co?</i>
23	Sample	20	6260	PCB0528	<del>C1F0262-03</del> <i>- possible Return Hg</i>
24	Sample	21	6261	PCB0528	<del>C1F0140-LCS F</del> <i>Find</i>
25	Sample	22	6262	PCB0528	<del>C1F0140-L0 F</del>
26	Sample	23	6263	PCB0528	<del>C1F0140-08 F@5X</del> <i>→ Dilute more (CRAP)</i>
27	Sample	24	6264	PCB0528	<del>C1F0142-01 Hg</del> <i>Hg dilute &amp; dilute</i>
28	Sample	25	6265	PCB0528	C1F0241-01@100X <i>compare - no signal</i>
29	Sample	26	6266	PCB0528	C1F0241-02@100X <i>- compare</i>
30	Sample	27	6267	PCB0528	C1F0241-01S1@100X <i>- compare</i>
31	Sample	28	6268	PCB0528	C1F0241-01S2@100X <i>- compare</i>
32	Sample	29	6269	PCB0528	<del>C1F0153-L0</del> <i>→ CRAP</i>
33	Sample	30	6270	PCB0528	AMIX@1.0 15-23-C
34	Sample	31	6271	PCB0528	AMIX@0.5 15-23-D

241  
 LCS dlo

C1 F0144

ACID treated  
 11/18

Sequence Name: C:\HPCHEM\1\SEQUENCE\0711PCB.S

Comment: PCB's by Method 8082

Operator: RSG

Data Path: C:\HPCHEM\1\DATA\0711PCB\

Pre-Seq Cmd:

Post-Seq Cmd:

Method Sections To Run            On A Barcode Mismatch

(X) Full Method                    (X) Inject Anyway

( ) Reprocessing Only            ( ) Don't Inject

Line Type	Vial	DataFile	Method	Sample Name
1 Stagger	-	100		
2 Sample	1	6239	PCB0528	BLANK
3 Sample	2	6240	PCB0528	AMIX@1.0 15-23-C
4 Sample	3	6241	PCB0528	AMIX@0.5 15-23-D
5 Sample	4	6242	PCB0528	A1221@1.0 15-5-C
6 Sample	5	6243	PCB0528	A1232@1.0 15-5-D
7 Sample	6	6244	PCB0528	A1242@1.0 15-6-A
8 Sample	7	6245	PCB0528	A1248@1.0 15-6-B
9 Sample	8	6246	PCB0528	A1254@1.0 15-6-C
10 Sample	9	6247	PCB0528	C1F0142-01
11 Sample	10	6248	PCB0528	C1F0142-LCS
12 Sample	11	6249	PCB0528	C1F0142-L0
13 Sample	12	6250	PCB0528	C1F0142-LS1
14 Sample	13	6251	PCB0528	C1F0142-LS2
15 Sample	14	6252	PCB0528	C1F0189-02 Hg
16 Sample	15	6253	PCB0528	C1F0189-03 Hg
17 Sample	16	6254	PCB0528	C1F0263-16@5X
18 Sample	17	6255	PCB0528	C1F0263-17@5X
19 Sample	18	6256	PCB0528	C1F0263-18@5X
20 Sample	2	6257	PCB0528	AMIX@1.0 15-23-C
21 Sample	3	6258	PCB0528	AMIX@0.5 15-23-D
22 Sample	19	6259	PCB0528	C1F0114-01
23 Sample	20	6260	PCB0528	C1F0262-03
24 Sample	21	6261	PCB0528	C1F0140-LCS F
25 Sample	22	6262	PCB0528	C1F0140-L0 F
26 Sample	23	6263	PCB0528	C1F0140-08 F@5X
27 Sample	24	6264	PCB0528	C1F0142-01 Hg
28 Sample	25	6265	PCB0528	C1F0241-01@100X
29 Sample	26	6266	PCB0528	C1F0241-02@100X
30 Sample	27	6267	PCB0528	C1F0241-01S1@100X
31 Sample	28	6268	PCB0528	C1F0241-01S2@100X
32 Sample	29	6269	PCB0528	C1F0153-L0
33 Sample	30	6270	PCB0528	AMIX@1.0 15-23-C
34 Sample	31	6271	PCB0528	AMIX@0.5 15-23-D

# Injection Log

Directory: C:\HPCHEM\1\DATA\0711PCB

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	6239.D	1.	BLANK		11 Jul 2001 09:37
	2	6240.D	1.	AMIX@1.0 15-23-C		11 Jul 2001 10:13
	3	6241.D	1.	AMIX@0.5 15-23-D		11 Jul 2001 10:49
4	4	6242.D	1.	A1221@1.0 15-5-C		11 Jul 2001 11:25
5	5	6243.D	1.	A1232@1.0 15-5-D		11 Jul 2001 12:01
6	6	6244.D	1.	A1242@1.0 15-6-A		11 Jul 2001 12:37
7	7	6245.D	1.	A1248@1.0 15-6-B		11 Jul 2001 13:13
8	8	6246.D	1.	A1254@1.0 15-6-C		11 Jul 2001 13:49
9	9	6247.D	1.	C1F0142-01		11 Jul 2001 14:25
10	10	6248.D	1.	C1F0142-LCS	} ReRun	11 Jul 2001 15:02
11	11	6249.D	1.	C1F0142-L0		11 Jul 2001 15:38
12	12	6250.D	1.	C1F0142-LS1		11 Jul 2001 16:14
13	13	6251.D	1.	C1F0142-LS2		11 Jul 2001 16:50
14	14	6252.D	1.	C1F0189-02 Hg <i>ok</i>		11 Jul 2001 17:26
15	15	6253.D	1.	C1F0189-03 Hg <i>ok</i>		11 Jul 2001 18:02
16	16	6254.D	1.	C1F0263-16@5X - 1242		11 Jul 2001 18:39
17	17	6255.D	1.	C1F0263-17@5X - 1242	10:11 Log	11 Jul 2001 19:15
18	18	6256.D	1.	C1F0263-18@5X - 1242		11 Jul 2001 19:51
19	2	6257.D	1.	AMIX@1.0 15-23-C		11 Jul 2001 20:27
20	3	6258.D	1.	AMIX@0.5 15-23-D		11 Jul 2001 21:03
21	19	6259.D	1.	C1F0114-01 <i>ok</i>		11 Jul 2001 21:39
22	20	6260.D	1.	C1F0262-03 - ReRun		11 Jul 2001 22:15
23	21	6261.D	1.	C1F0140-LCS F	} ReRun	11 Jul 2001 22:51
24	22	6262.D	1.	C1F0140-L0 F		11 Jul 2001 23:27
25	23	6263.D	1.	C1F0140-08 F@5X		12 Jul 2001 00:03
26	24	6264.D	1.	C1F0142-01 Hg		12 Jul 2001 00:39
27	25	6265.D	1.	C1F0241-01@100X <i>ok</i>		12 Jul 2001 01:15
28	26	6266.D	1.	C1F0241-02@100X <i>ok</i>		12 Jul 2001 01:51
29	27	6267.D	1.	C1F0241-01S1@100X <i>ok</i>		12 Jul 2001 02:27
30	28	6268.D	1.	C1F0241-01S2@100X <i>ok</i>		12 Jul 2001 03:03
	29	6269.D	1.	C1F0153-L0	contaminated	12 Jul 2001 03:39
	30	6270.D	1.	AMIX@1.0 15-23-C		12 Jul 2001 04:15
33	31	6271.D	1.	AMIX@0.5 15-23-D		12 Jul 2001 04:51

# Injection Log

Directory: C:\HPCHEM\1\DATA\0711PCB

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1		6239.D	1.	BLANK		11 Jul 2001 09:37
2	1	6240.D	1.	AMIX@1.0 15-23-C		11 Jul 2001 10:13
3	3	6241.D	1.	AMIX@0.5 15-23-D		11 Jul 2001 10:49
4	4	6242.D	1.	A1221@1.0 15-5-C		11 Jul 2001 11:25
5	5	6243.D	1.	A1232@1.0 15-5-D		11 Jul 2001 12:01
6	6	6244.D	1.	A1242@1.0 15-6-A		11 Jul 2001 12:37
7	7	6245.D	1.	A1248@1.0 15-6-B		11 Jul 2001 13:13
8	8	6246.D	1.	A1254@1.0 15-6-C		11 Jul 2001 13:49
9	9	6247.D	1.	C1F0142-01		11 Jul 2001 14:25
10	10	6248.D	1.	C1F0142-LCS		11 Jul 2001 15:02
11	11	6249.D	1.	C1F0142-L0		11 Jul 2001 15:38
12	12	6250.D	1.	C1F0142-LS1		11 Jul 2001 16:14
13	13	6251.D	1.	C1F0142-LS2		11 Jul 2001 16:50
14	14	6252.D	1.	C1F0189-02 Hg		11 Jul 2001 17:26
15	15	6253.D	1.	C1F0189-03 Hg		11 Jul 2001 18:02
16	16	6254.D	1.	C1F0263-16@5X		11 Jul 2001 18:39
17	17	6255.D	1.	C1F0263-17@5X		11 Jul 2001 19:15
18	18	6256.D	1.	C1F0263-18@5X		11 Jul 2001 19:51
19	2	6257.D	1.	AMIX@1.0 15-23-C		11 Jul 2001 20:27
20	3	6258.D	1.	AMIX@0.5 15-23-D		11 Jul 2001 21:03
21	19	6259.D	1.	C1F0114-01	Misc	11 Jul 2001 21:39
22	20	6260.D	1.	C1F0262-03		11 Jul 2001 22:15
23	21	6261.D	1.	C1F0140-LCS F		11 Jul 2001 22:51
24	22	6262.D	1.	C1F0140-L0 F		11 Jul 2001 23:27
25	23	6263.D	1.	C1F0140-08 F@5X		12 Jul 2001 00:03
26	24	6264.D	1.	C1F0142-01 Hg		12 Jul 2001 00:39
27	25	6265.D	1.	C1F0241-01@100X		12 Jul 2001 01:15
28	26	6266.D	1.	C1F0241-02@100X		12 Jul 2001 01:51
29	27	6267.D	1.	C1F0241-01S1@100X		12 Jul 2001 02:27
:	28	6268.D	1.	C1F0241-01S2@100X		12 Jul 2001 03:03
:	29	6269.D	1.	C1F0153-L0		12 Jul 2001 03:39
32	30	6270.D	1.	AMIX@1.0 15-23-C		12 Jul 2001 04:15
33	31	6271.D	1.	AMIX@0.5 15-23-D		12 Jul 2001 04:51

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\0711PCB\6239.D\ECD1A.CH Vial: 1  
 Acq On : 11 Jul 2001 9:37 am Operator: RSG  
 Sample : BLANK Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6239.D\ECD2B.CH Vial: 1  
 Acq On : 11 Jul 2001 10:13 am Operator: RSG  
 Sample : BLANK Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E

Quant Time: Jul 12 11:44 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
1) S Tetrachlorometax	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount	0.050		Recovery	=	0.00%	0.00%
S Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount	0.050		Recovery	=	0.00%	0.00%
Target Compounds						
2) L1 Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.
3) L1 Aroclor-1016 {2}	0.00	7.30	0	69390	N.D.	0.003 #
4) L1 Aroclor-1016 {3}	0.00	7.97	0	294320	N.D.	0.015 #
5) L1 Aroclor-1016 {4}	0.00	9.19	0	313735	N.D.	0.030 #
Sum Aroclor-1016			0	677445	N.D.	0.048
Average Aroclor-1016					0.000	0.016
6) L2 Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.
7) L2 Aroclor-1260 {2}	0.00	11.28	0	1020184	N.D.	0.092 #
8) L2 Aroclor-1260 {3}	0.00	0.00	0	0	N.D.	N.D.
9) L2 Aroclor-1260 {4}	0.00	0.00	0	0	N.D.	N.D.
Sum Aroclor-1260			0	1020184	N.D.	0.092
Average Aroclor-1260					0.000	0.092

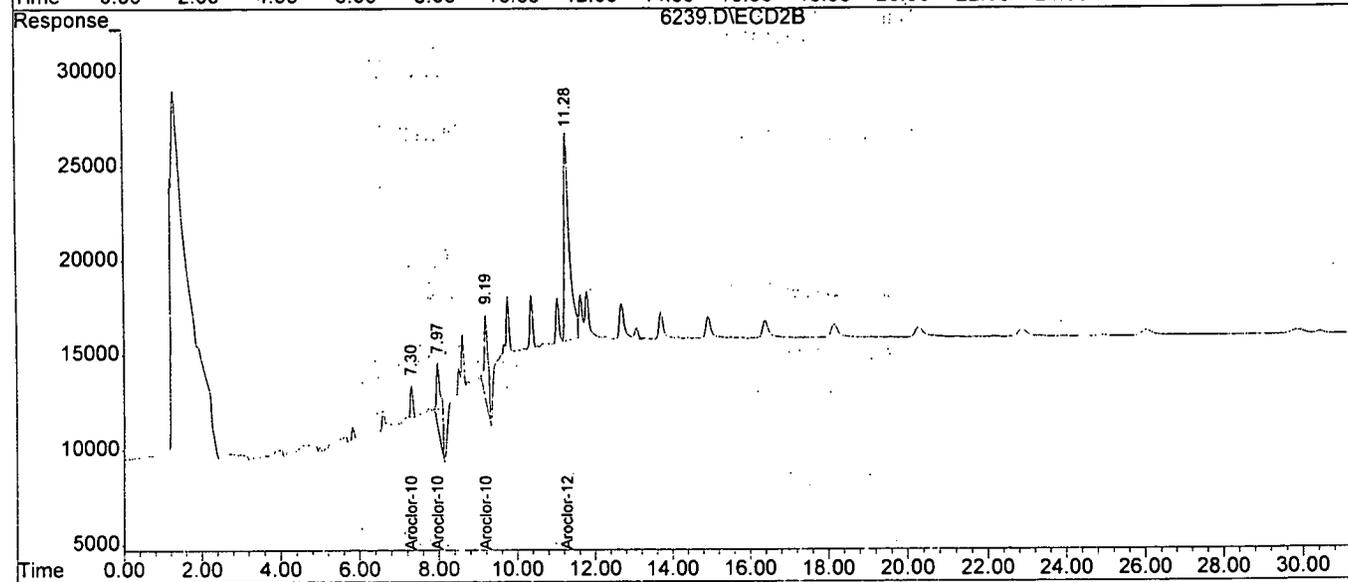
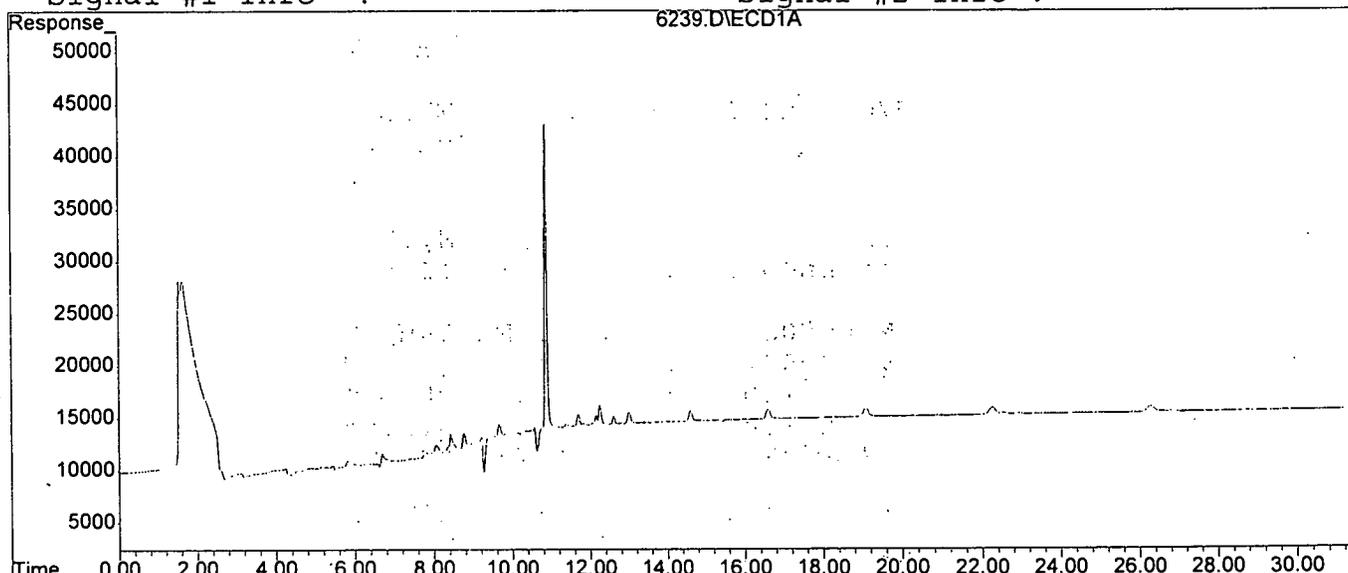
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0711PCB\6239.D\ECD1A.CH Vial: 1  
Acq On : 11 Jul 2001 9:37 am Operator: RSG  
Sample : BLANK Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6239.D\ECD2B.CH Vial: 1  
Acq On : 11 Jul 2001 10:13 am Operator: RSG  
Sample : BLANK Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS2.E  
Quant Time: Jul 12 11:44 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Tue Jul 10 07:32:52 2001  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\0711PCB\6240.D\ECD1A.CH Vial: 2  
 Acq On : 11 Jul 2001 10:13 am Operator: RSG  
 Sample : AMIX@1.0 15-23-C Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6240.D\ECD2B.CH Vial: 2  
 Acq On : 11 Jul 2001 10:49 am Operator: RSG  
 Sample : BLANK Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E  
 Quant Time: Jul 12 11:44 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
1) S Tetrachlorometax	6.05	5.79	15322570	11385607	0.107	0.091
Spiked Amount	0.050		Recovery	=	214.00%	182.00%
S Decachlorobiphen	18.31	19.57	8661464	8999974	0.092	0.098
Spiked Amount	0.050		Recovery	=	184.00%	196.00%
Target Compounds						
2) L1 Aroclor-1016	7.17	6.67	6764409	2939116	0.227	0.249
3) L1 Aroclor-1016 {2}	7.81	7.30	10026050	5478168	0.225	0.220
4) L1 Aroclor-1016 {3}	8.81	8.17	3656759	3800965	0.257	0.193
5) L1 Aroclor-1016 {4}	9.22	9.42	2696588	2575816	0.213	0.245
Sum Aroclor-1016			23143806	14794066	0.922	0.908
Average Aroclor-1016					0.231	0.227
6) L2 Aroclor-1260	10.46	10.65	6269513	6359592	0.218	0.233
7) L2 Aroclor-1260 {2}	12.77	11.23	9394258	4291928	0.246	0.388 #
8) L2 Aroclor-1260 {3}	13.61	13.02	5099877	9584564	0.245	0.245
9) L2 Aroclor-1260 {4}	15.47	14.41	2288084	7414060	0.254	0.264
Sum Aroclor-1260			23051732	27650144	0.963	1.131
Average Aroclor-1260					0.241	0.283

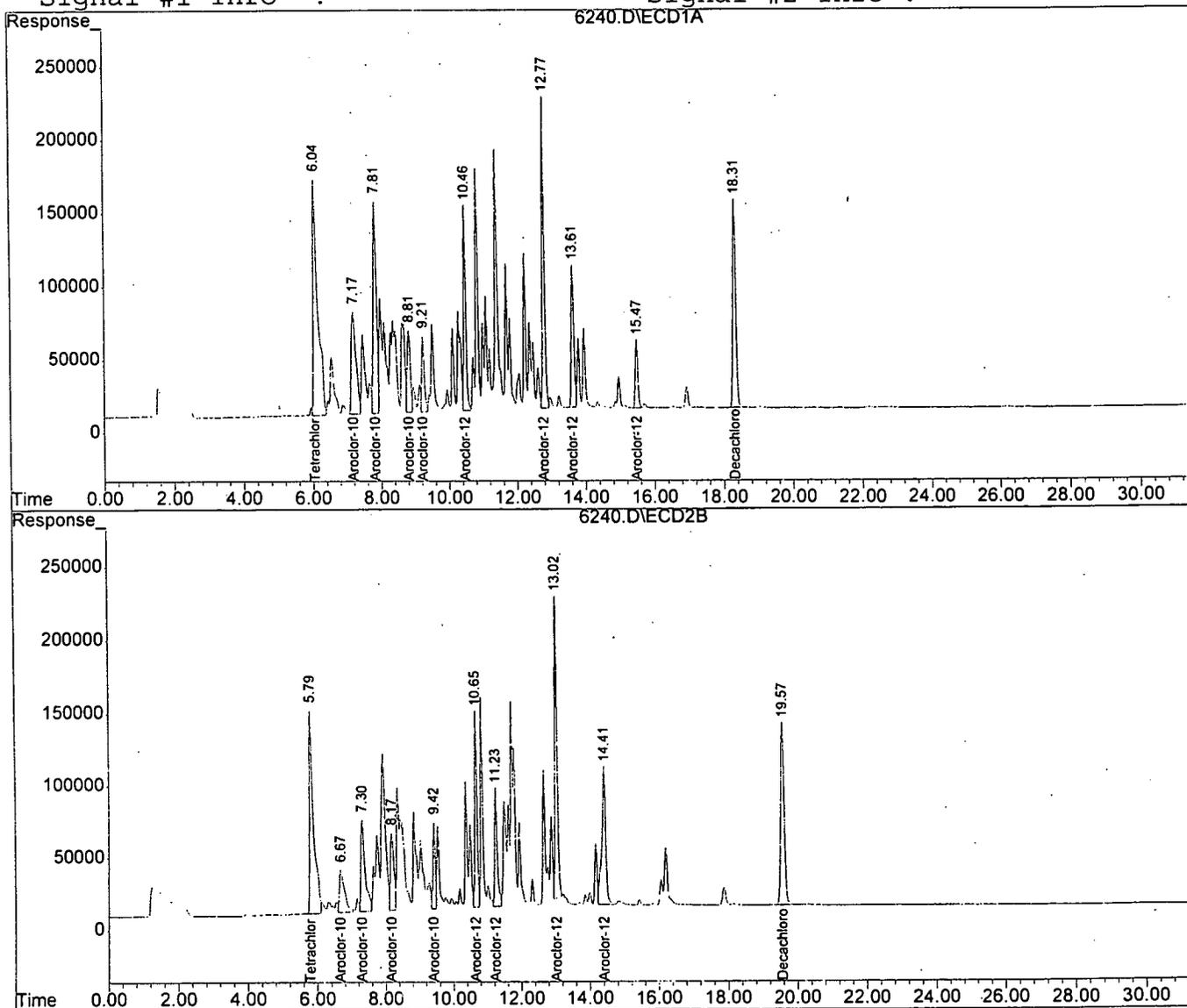
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0711PCB\6240.D\ECD1A.CH Vial: 2  
Acq On : 11 Jul 2001 10:13 am Operator: RSG  
Sample : AMIX@1.0 15-23-C Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6240.D\ECD2B.CH Vial: 2  
Acq On : 11 Jul 2001 10:49 am Operator: RSG  
Sample : BLANK Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS2.E  
Quant Time: Jul 12 11:44 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Tue Jul 10 07:32:52 2001  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\0711PCB\6240.D\ECD1A.CH Vial: 2  
 Acq On : 11 Jul 2001 10:13 am Operator: RSG  
 Sample : AMIX@1.0 15-23-C Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 tFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6240.D\ECD2B.CH Vial: 2  
 Acq On : 11 Jul 2001 10:49 am Operator: RSG  
 Sample : BLANK Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E

Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (Min)
1 S Tetrachlorometaxylene	142.814	153.226 E6	-7.3	108	0.00
2 L1 Aroclor-1016	29.763	27.058 E6	9.1	106	0.00
3 L1 Aroclor-1016 {2}	44.583	40.104 E6	10.0	101	0.00
4 L1 Aroclor-1016 {3}	14.226	14.627 E6	-2.8	104	0.00
5 L1 Aroclor-1016 {4}	12.654	10.786 E6	14.8	91	-0.01
6 L2 Aroclor-1260	28.751	25.078 E6	12.8	101	0.00
7 L2 Aroclor-1260 {2}	38.185	37.577 E6	1.6	107	0.00
L2 Aroclor-1260 {3}	20.803	20.400 E6	1.9	107	0.00
L2 Aroclor-1260 {4}	9.019	9.152 E6	-1.5	108	0.00
10 S Decachlorobiphenyl	94.019	86.615 E6	7.9	108	0.00

Signal #2

1 S Tetrachlorometaxylene	124.893	113.856 E6	8.8	90	0.00
2 L1 Aroclor-1016	11.804	11.756 E6	0.4	98	0.00
3 L1 Aroclor-1016 {2}	24.867	21.913 E6	11.9	96	0.00
4 L1 Aroclor-1016 {3}	19.679	15.204 E6	22.7#	89	0.00
5 L1 Aroclor-1016 {4}	10.503	10.303 E6	1.9	108	0.00
6 L2 Aroclor-1260	27.252	25.438 E6	6.7	110	0.00
7 L2 Aroclor-1260 {2}	11.054	17.168 E6	-55.3#	163#	0.00
8 L2 Aroclor-1260 {3}	39.091	38.338 E6	1.9	113	0.00
9 L2 Aroclor-1260 {4}	28.079	29.656 E6	-5.6	114	0.00
10 S Decachlorobiphenyl	92.172	90.000 E6	2.4	114	0.00

Evaluate Continuing Calibration Report - Not Found

Data File : C:\HPCHEM\1\DATA\0711PCB\6240.D\ECD1A.CH Vial: 2  
 Acq On : 11 Jul 2001 10:13 am Operator: RSG  
 Sample : AMIX@1.0 15-23-C Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6240.D\ECD2B.CH Vial: 2  
 Acq On : 11 Jul 2001 10:49 am Operator: RSG  
 Sample : BLANK Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\0711PCB\6241.D\ECD1A.CH Vial: 3  
 Acq On : 11 Jul 2001 10:49 am Operator: RSG  
 Sample : AMIX@0.5 15-23-D Inst : GC/MS Ins  
 SC : Multiplr: 1.00  
 File : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6241.D\ECD2B.CH Vial: 3  
 Acq On : 11 Jul 2001 11:25 am Operator: RSG  
 Sample : AMIX@1.0 15-23-C Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E

Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S Tetrachlorometaxylene	142.814	152.567 E6	-6.8	105	0.00
2 L1 Aroclor-1016	29.763	29.142 E6	2.1	103	0.00
3 L1 Aroclor-1016 {2}	44.583	42.801 E6	4.0	100	0.00
4 L1 Aroclor-1016 {3}	14.226	14.491 E6	-1.9	99	0.00
5 L1 Aroclor-1016 {4}	12.654	10.618 E6	16.1#	87	0.00
6 L2 Aroclor-1260	28.751	26.246 E6	8.7	97	0.00
7 L2 Aroclor-1260 {2}	38.185	37.455 E6	1.9	108	0.00
L2 Aroclor-1260 {3}	20.803	20.137 E6	3.2	103	0.00
L2 Aroclor-1260 {4}	9.019	8.643 E6	4.2	103	0.00
10 S Decachlorobiphenyl	94.019	87.509 E6	6.9	103	0.00

Signal #2

1 S Tetrachlorometaxylene	124.893	121.736 E6	2.5	91	0.00
2 L1 Aroclor-1016	11.804	12.020 E6	-1.8	97	0.00
3 L1 Aroclor-1016 {2}	24.867	23.942 E6	3.7	95	0.00
4 L1 Aroclor-1016 {3}	19.679	17.238 E6	12.4	88	0.00
5 L1 Aroclor-1016 {4}	10.503	11.901 E6	-13.3	106	0.00
6 L2 Aroclor-1260	27.252	28.762 E6	-5.5	104	0.00
7 L2 Aroclor-1260 {2}	11.054	17.089 E6	-54.6#	138	0.00
8 L2 Aroclor-1260 {3}	39.091	41.430 E6	-6.0	104	0.00
9 L2 Aroclor-1260 {4}	28.079	31.191 E6	-11.1	105	0.00
10 S Decachlorobiphenyl	92.172	100.286 E6	-8.8	105	0.00

Evaluate Continuing Calibration Report - Not Found

Data File : C:\HPCHEM\1\DATA\0711PCB\6241.D\ECD1A.CH Vial: 3  
 Acq On : 11 Jul 2001 10:49 am Operator: RSG  
 Sample : AMIX@0.5 15-23-D Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6241.D\ECD2B.CH Vial: 3  
 Acq On : 11 Jul 2001 11:25 am Operator: RSG  
 Sample : AMIX@1.0 15-23-C Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6241.D\ECD1A.CH Vial: 3  
 Acq On : 11 Jul 2001 10:49 am Operator: RSG  
 Sample : AMIX@0.5 15-23-D Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6241.D\ECD2B.CH Vial: 3  
 Acq On : 11 Jul 2001 11:25 am Operator: RSG  
 Sample : AMIX@1.0 15-23-C Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E  
 Quant Time: Jul 12 11:44 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
-----						
System Monitoring Compounds						
1) S Tetrachlorometax	6.05	5.79	7628367	6086798	0.053	0.049
Spiked Amount	0.050		Recovery	=	106.00%	98.00%
S Decachlorobiphen	18.30	19.57	4375473	5014293	0.047	0.054
Spiked Amount	0.050		Recovery	=	94.00%	108.00%
Target Compounds						
2) L1 Aroclor-1016	7.18	6.67	3642793	1502499	0.122	0.127
3) L1 Aroclor-1016 {2}	7.82	7.30	5350149	2992713	0.120	0.120
4) L1 Aroclor-1016 {3}	8.81	8.18	1811376	2154724	0.127	0.109
5) L1 Aroclor-1016 {4}	9.22	9.42	1327285	1487634	0.105	0.142 #
Sum Aroclor-1016			12131603	8137571	0.475	0.499
Average Aroclor-1016					0.119	0.125
6) L2 Aroclor-1260	10.46	10.66	3280809	3595271	0.114	0.132
7) L2 Aroclor-1260 {2}	12.77	11.23	4681827	2136131	0.123	0.193 #
8) L2 Aroclor-1260 {3}	13.61	13.02	2517161	5178766	0.121	0.132
9) L2 Aroclor-1260 {4}	15.47	14.41	1080403	3898895	0.120	0.139
Sum Aroclor-1260			11560200	14809063	0.478	0.597
Average Aroclor-1260					0.119	0.149

Quantitation Report

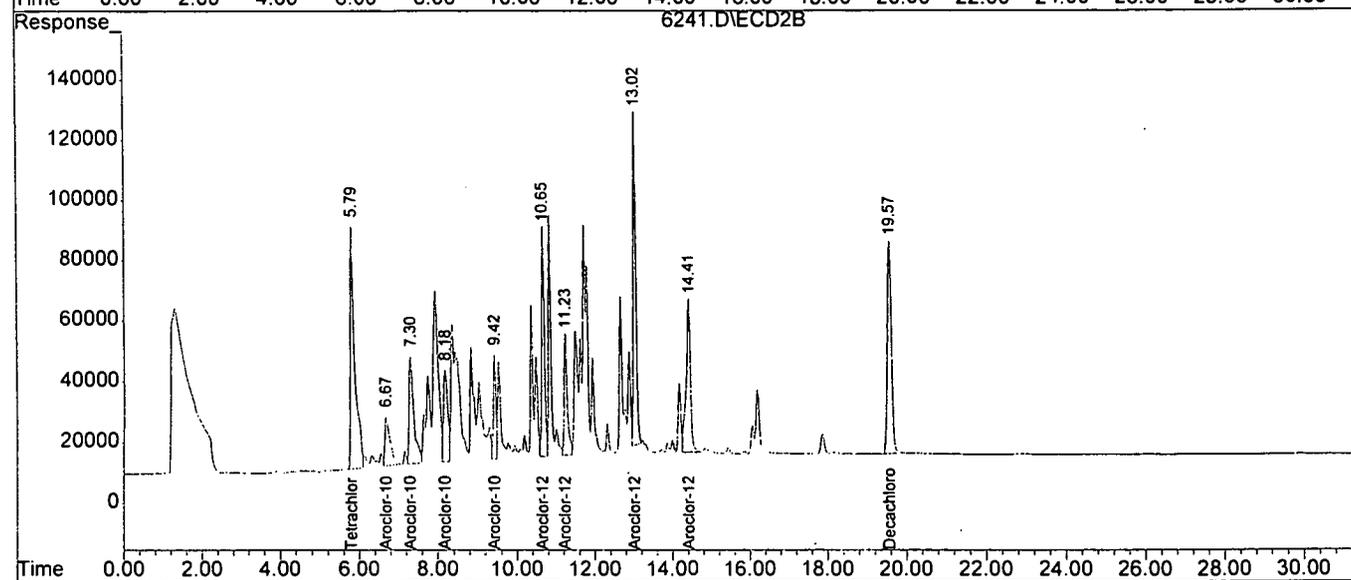
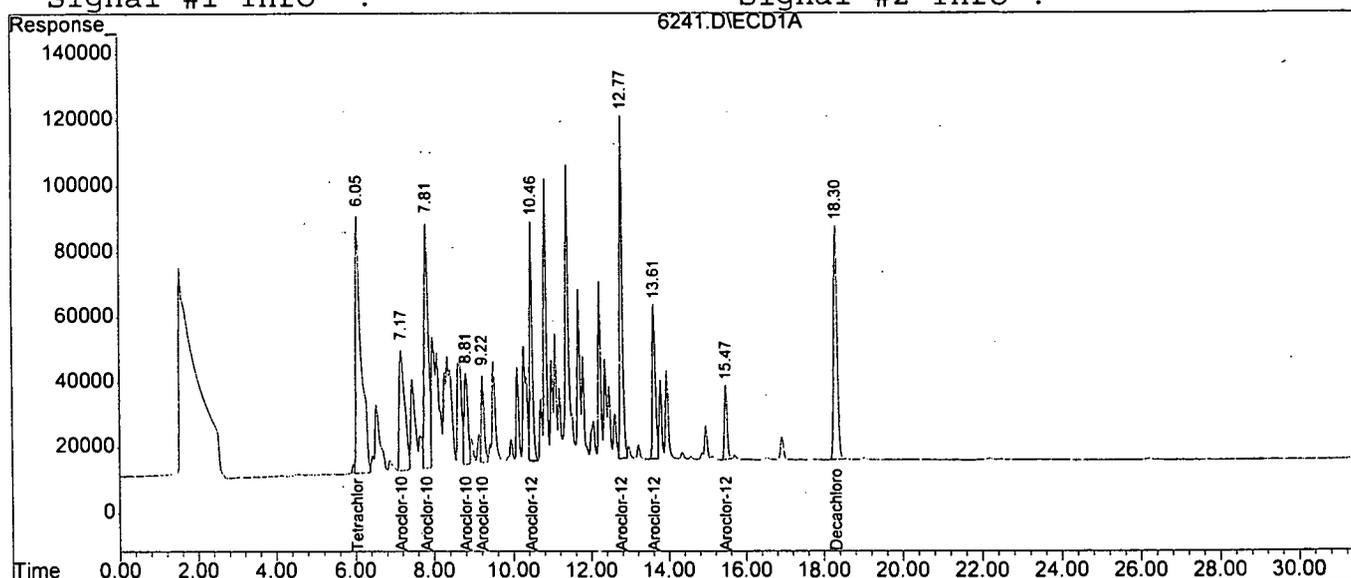
Data File : C:\HPCHEM\1\DATA\0711PCB\6241.D\ECD1A.CH Vial: 3  
Acq On : 11 Jul 2001 10:49 am Operator: RSG  
Sample : AMIX@0.5 15-23-D Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6241.D\ECD2B.CH Vial: 3  
Acq On : 11 Jul 2001 11:25 am Operator: RSG  
Sample : AMIX@1.0 15-23-C Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS2.E

Quant Time: Jul 12 11:44 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Tue Jul 10 07:32:52 2001  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



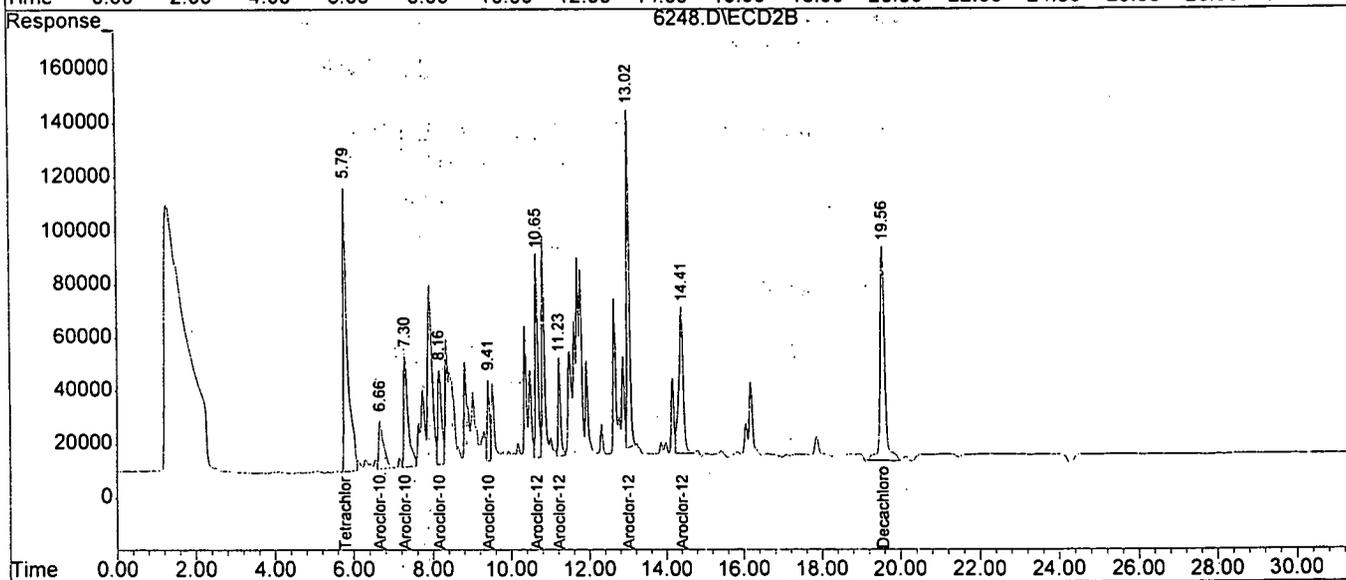
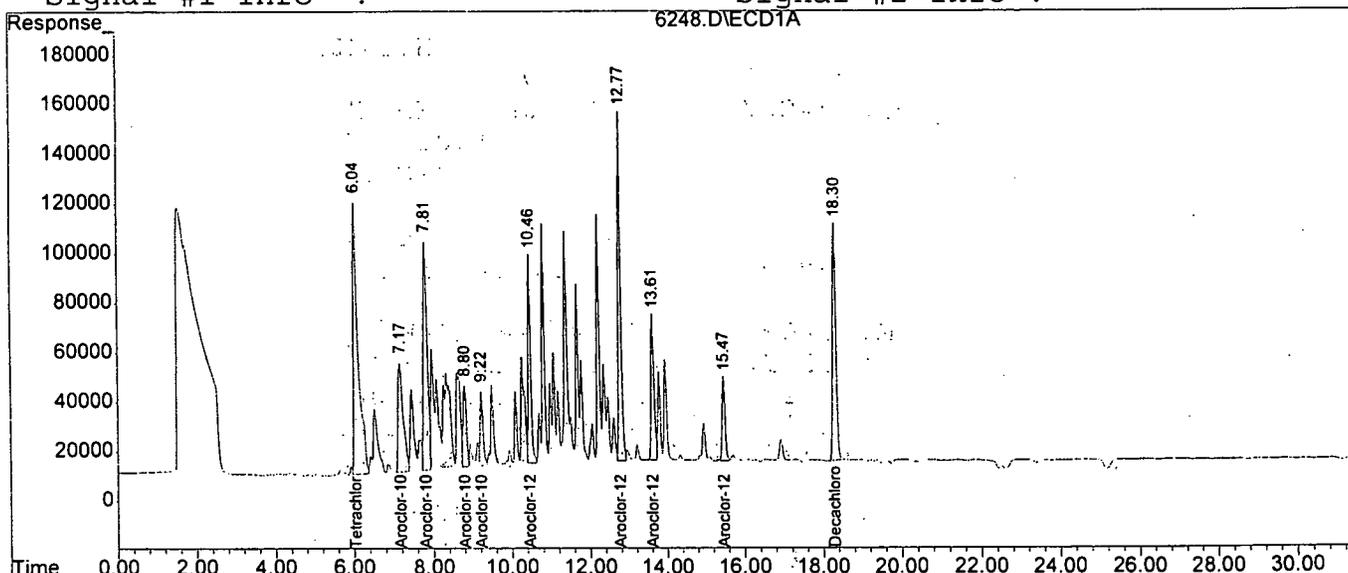
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0711PCB\6248.D\ECD1A.CH Vial: 10  
Acq On : 11 Jul 2001 3:02 pm Operator: RSG  
Sample : C1F0142-LCS Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6248.D\ECD2B.CH Vial: 10  
Acq On : 11 Jul 2001 3:38 pm Operator: RSG  
Sample : C1F0142-01 Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS2.E  
Quant Time: Jul 12 11:45 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Tue Jul 10 07:32:52 2001  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\0711PCB\6249.D\ECD1A.CH Vial: 11  
 Acq On : 11 Jul 2001 3:38 pm Operator: RSG  
 Sample : C1F0142-L0 Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6249.D\ECD2B.CH Vial: 11  
 Acq On : 11 Jul 2001 4:14 pm Operator: RSG  
 Sample : C1F0142-LCS Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E

Quant Time: Jul 12 11:55 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
<b>System Monitoring Compounds</b>						
1) S Tetrachlorometax	6:04	5.79	8046004	7335337	0.056	0.059
Spiked Amount	0.050		Recovery	=	112.00%	118.00%
S Decachlorobiphen	18:30	19.57	4695661	5149485	0.050	0.056m
Spiked Amount	0.050		Recovery	=	100.00%	112.00%
<b>Target Compounds</b>						
2) L1 Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.
3) L1 Aroclor-1016 {2}	0.00	0.00	0	0	N.D.	N.D.
4) L1 Aroclor-1016 {3}	0.00	0.00	0	0	N.D.	N.D.
5) L1 Aroclor-1016 {4}	0.00	0.00	0	0	N.D.	N.D.
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
6) L2 Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.
7) L2 Aroclor-1260 {2}	0.00	0.00	0	0	N.D.	N.D.
8) L2 Aroclor-1260 {3}	0.00	0.00	0	0	N.D.	N.D.
9) L2 Aroclor-1260 {4}	0.00	0.00	0	0	N.D.	N.D.
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

Quantitation Report

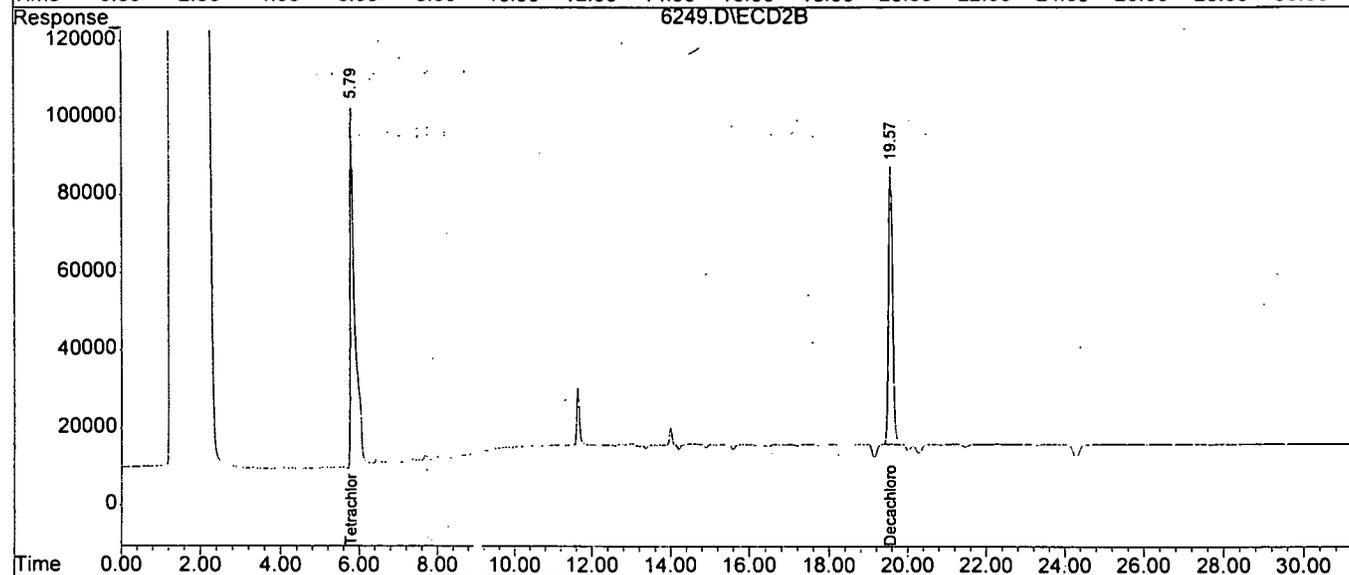
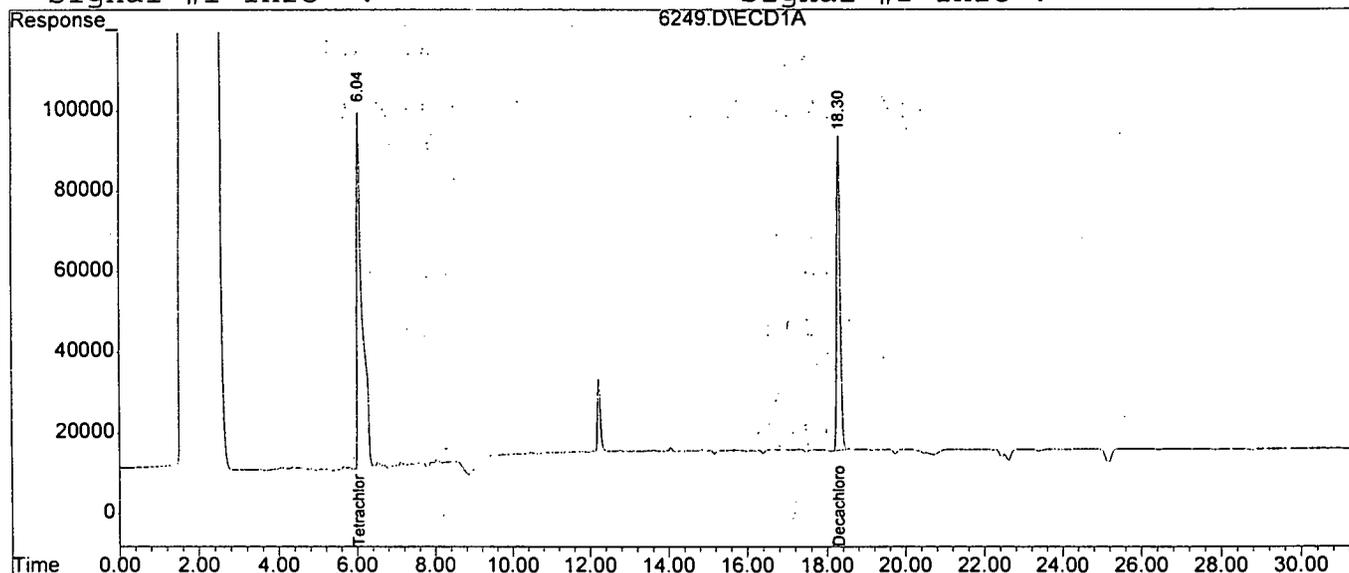
Data File : C:\HPCHEM\1\DATA\0711PCB\6249.D\ECD1A.CH Vial: 11  
Acq On : 11 Jul 2001 3:38 pm Operator: RSG  
Sample : C1F0142-L0 Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6249.D\ECD2B.CH Vial: 11  
Acq On : 11 Jul 2001 4:14 pm Operator: RSG  
Sample : C1F0142-LCS Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS2.E

Quant Time: Jul 12 11:55 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Tue Jul 10 07:32:52 2001  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\0711PCB\6250.D\ECD1A.CH Vial: 12  
 Acq On : 11 Jul 2001 4:14 pm Operator: RSG  
 Sample : C1F0142-LS1 Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6250.D\ECD2B.CH Vial: 12  
 Acq On : 11 Jul 2001 4:50 pm Operator: RSG  
 Sample : C1F0142-L0 Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E

Quant Time: Jul 12 11:45 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
System Monitoring Compounds						
1) S Tetrachlorometax	6.06	5.79	5539248	6487611	0.039	0.052 #
Spiked Amount	0.050		Recovery	=	78.00%	104.00%
S Decachlorobiphen	18.30	19.57	3730902	5645547	0.040	0.061 #
Spiked Amount	0.050		Recovery	=	80.00%	122.00%
Target Compounds						
2) L1 Aroclor-1016	7.18	6.66	6167424	3168527	0.207	0.268 #
3) L1 Aroclor-1016 {2}	7.82	7.30	9227237	6043595	0.207	0.243
4) L1 Aroclor-1016 {3}	8.81	8.16	2342989	4380608	0.165	0.223 #
5) L1 Aroclor-1016 {4}	9.23	9.42	2065536	1992843	0.163	0.190
Sum Aroclor-1016			19803186	15585573	0.742	0.924
Average Aroclor-1016					0.186	0.231
6) L2 Aroclor-1260	10.46	10.65	4774138	5603338	0.166	0.206
7) L2 Aroclor-1260 {2}	12.77	11.23	8109174	2678644	0.212	0.242
8) L2 Aroclor-1260 {3}	13.61	13.02	4071015	9869209	0.196	0.252 #
9) L2 Aroclor-1260 {4}	15.47	14.41	2096569	7748381	0.232	0.276
Sum Aroclor-1260			19050896	25899572	0.807	0.976
Average Aroclor-1260					0.202	0.244

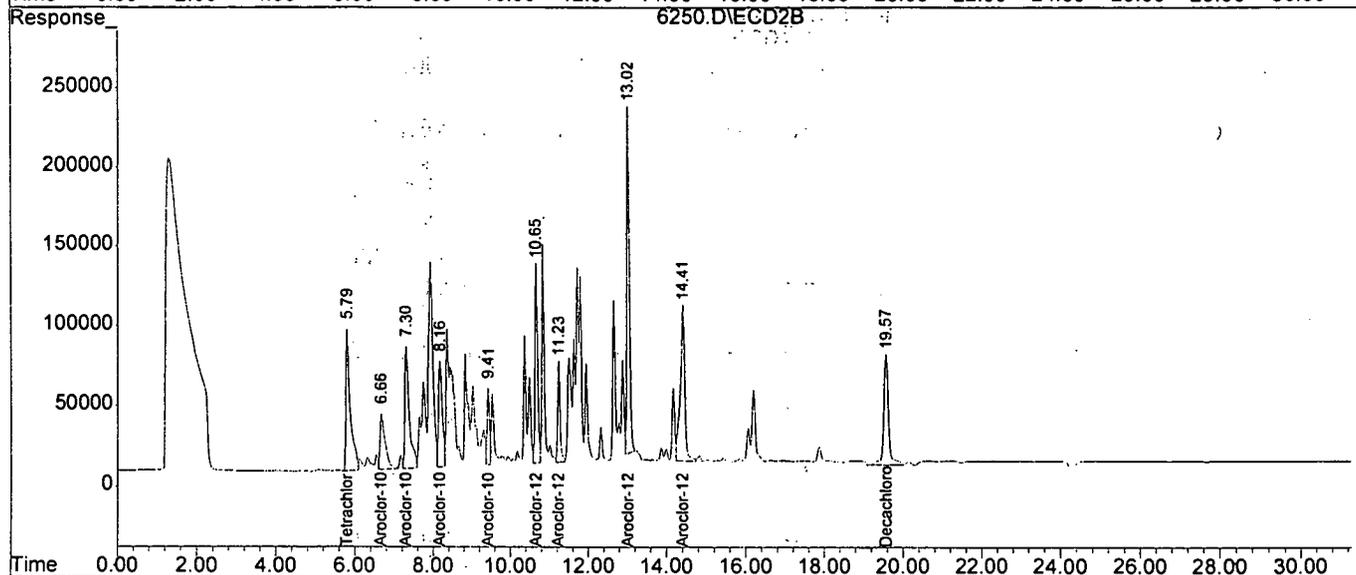
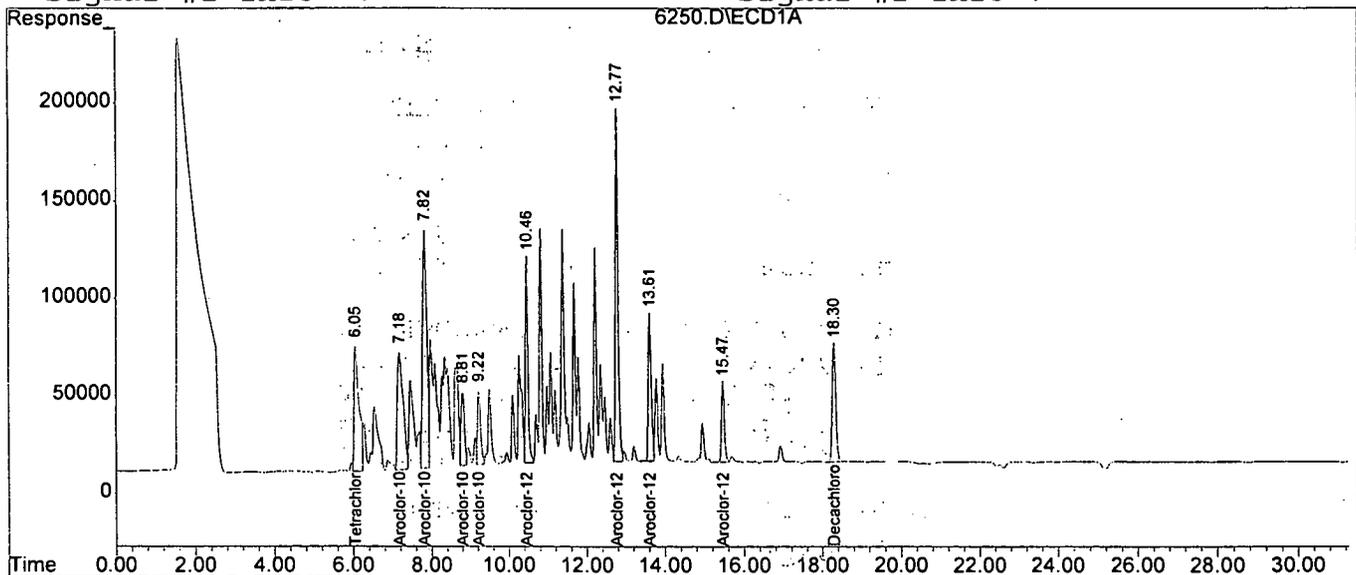
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0711PCB\6250.D\ECD1A.CH Vial: 12  
Acq On : 11 Jul 2001 4:14 pm Operator: RSG  
Sample : C1F0142-LS1 Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6250.D\ECD2B.CH Vial: 12  
Acq On : 11 Jul 2001 4:50 pm Operator: RSG  
Sample : C1F0142-L0 Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS2.E  
Quant Time: Jul 12 11:45 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Tue Jul 10 07:32:52 2001  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\0711PCB\6251.D\ECD1A.CH Vial: 13  
 Acq On : 11 Jul 2001 4:50 pm Operator: RSG  
 Sample : C1F0142-LS2 Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6251.D\ECD2B.CH Vial: 13  
 Acq On : 11 Jul 2001 5:26 pm Operator: RSG  
 Sample : C1F0142-LS1 Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E  
 Quant Time: Jul 12 11:45 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
-----						
System Monitoring Compounds						
1) S Tetrachlorometax	6.05	5.80	7385646	6421828	0.052	0.051
Spiked Amount	0.050		Recovery	=	104.00%	102.00%
1) S Decachlorobiphen	18.30	19.57	4793560	4777122	0.051	0.052
Spiked Amount	0.050		Recovery	=	102.00%	104.00%
Target Compounds						
2) L1 Aroclor-1016	7.17	6.66	7157110	3015988	0.240	0.255
3) L1 Aroclor-1016 {2}	7.81	7.30	10817723	5868317	0.243	0.236
4) L1 Aroclor-1016 {3}	8.80	8.17	2811201	4247583	0.198	0.216
5) L1 Aroclor-1016 {4}	9.22	9.42	2432903	1958028	0.192	0.186
Sum Aroclor-1016			23218937	15089916	0.873	0.894
Average Aroclor-1016					0.218	0.223
6) L2 Aroclor-1260	10.46	10.66	5850743	5380344	0.203	0.197
7) L2 Aroclor-1260 {2}	12.77	11.23	10968975	2616124	0.287	0.237
8) L2 Aroclor-1260 {3}	13.61	13.02	5288114	9314867	0.254	0.238
9) L2 Aroclor-1260 {4}	15.47	14.41	2606155	7316632	0.289	0.261
Sum Aroclor-1260			24713987	24627967	1.034	0.933
Average Aroclor-1260					0.258	0.233

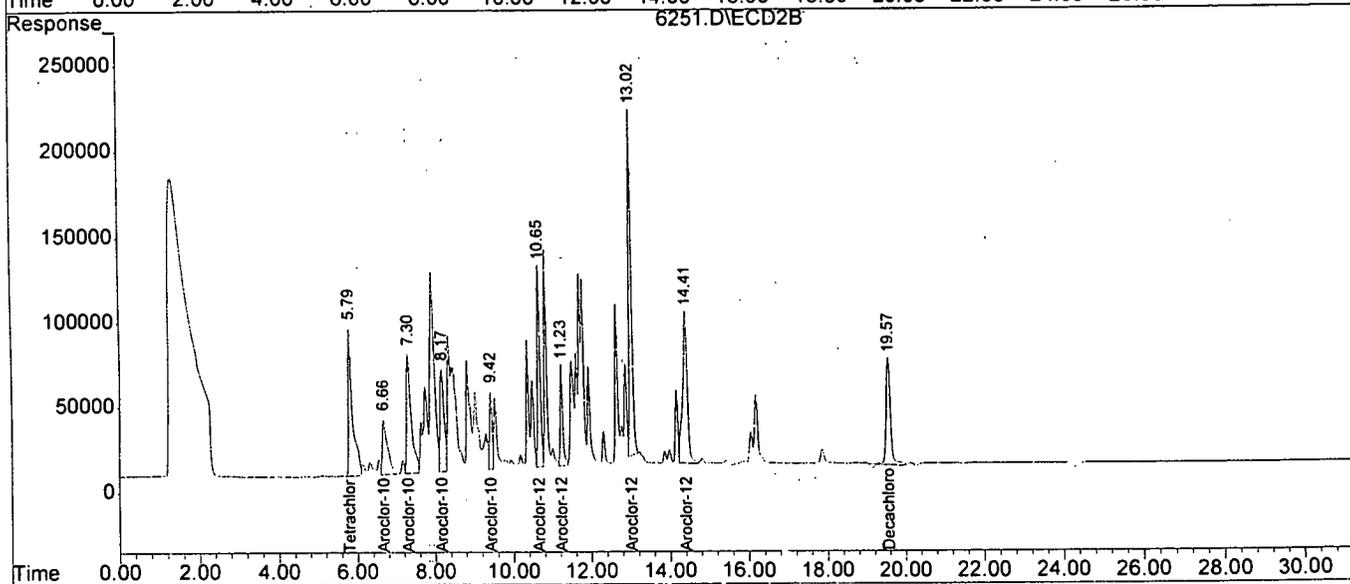
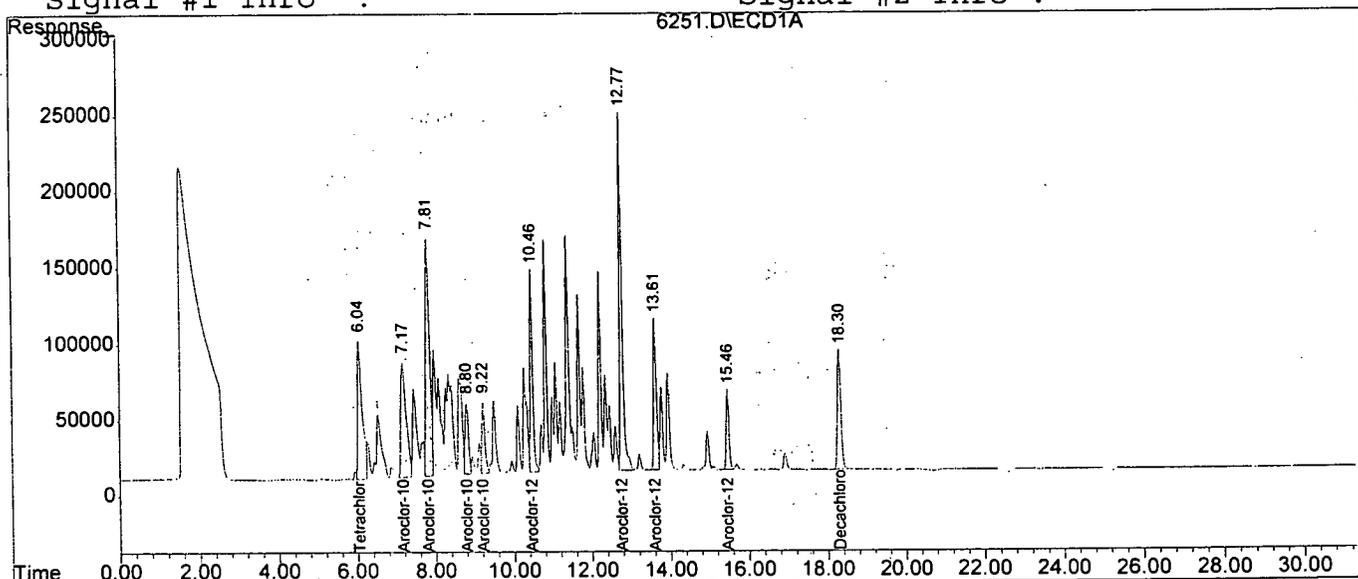
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0711PCB\6251.D\ECD1A.CH Vial: 13  
Acq On : 11 Jul 2001 4:50 pm Operator: RSG  
Sample : C1F0142-LS2 Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6251.D\ECD2B.CH Vial: 13  
Acq On : 11 Jul 2001 5:26 pm Operator: RSG  
Sample : C1F0142-LS1 Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS2.E  
Quant Time: Jul 12 11:45 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Tue Jul 10 07:32:52 2001  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\0711PCB\6242.D\ECD1A.CH Vial: 4  
 Acq On : 11 Jul 2001 11:25 am Operator: RSG  
 Sample : A1221@1.0 15-5-C Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6242.D\ECD2B.CH Vial: 4  
 Acq On : 11 Jul 2001 12:01 pm Operator: RSG  
 Sample : AMIX@0.5 15-23-D Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E  
 Quant Time: Jul 12 11:44 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
<b>System Monitoring Compounds</b>						
1) S Tetrachlorometax	5.95	5.68	907585	325967	0.006	0.003 #
Spiked Amount	0.050		Recovery	=	12.00%	6.00%
S Decachlorobiphen	18.30	19.57	274719	251265	0.003	0.003
Spiked Amount	0.050		Recovery	=	6.00%	6.00%
<b>Target Compounds</b>						
2) L1 Aroclor-1016	7.20	6.66	1520419	4193699	0.051	0.355 #
3) L1 Aroclor-1016 {2}	7.82	7.31	775249	385628	0.017	0.016
4) L1 Aroclor-1016 {3}	8.80	8.18	93862	197776	0.007	0.010 #
5) L1 Aroclor-1016 {4}	9.21	0.00	90953	0	0.007	N.D. #
Sum Aroclor-1016			2480483	4777103	0.082	0.381
Average Aroclor-1016					0.021	0.127
6) L2 Aroclor-1260	0.00	0.00	0	0	N.D.	N.D.
7) L2 Aroclor-1260 {2}	0.00	0.00	0	0	N.D.	N.D.
8) L2 Aroclor-1260 {3}	0.00	0.00	0	0	N.D.	N.D.
9) L2 Aroclor-1260 {4}	0.00	0.00	0	0	N.D.	N.D.
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

Quantitation Report

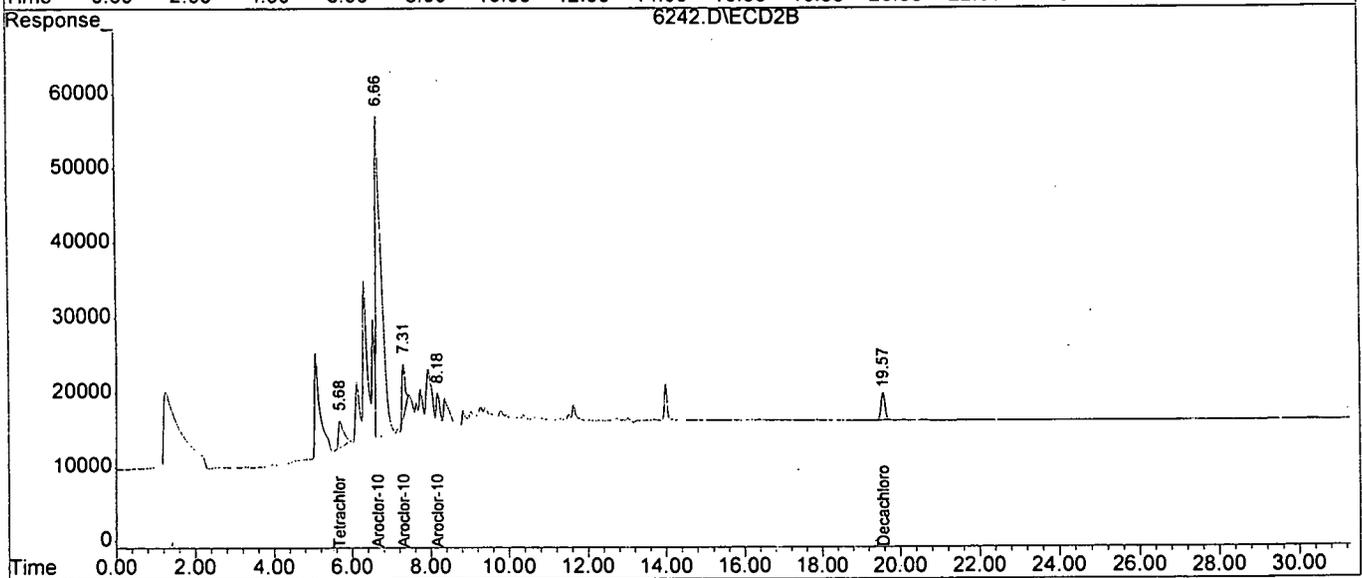
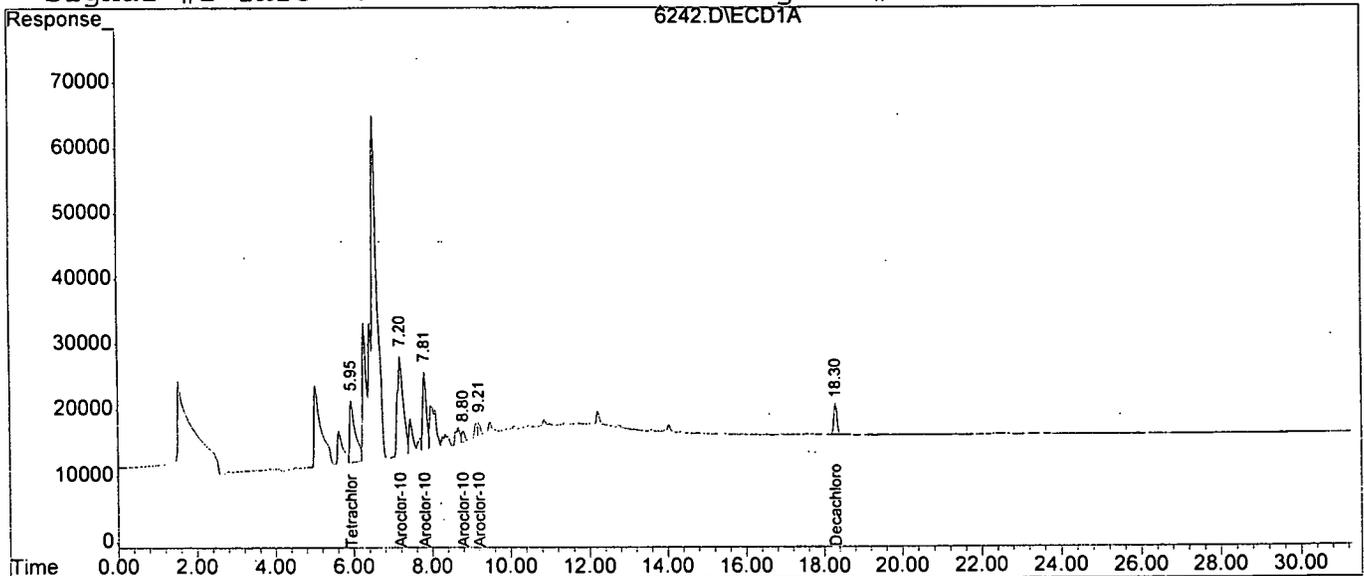
Data File : C:\HPCHEM\1\DATA\0711PCB\6242.D\ECD1A.CH Vial: 4  
Acq On : 11 Jul 2001 11:25 am Operator: RSG  
Sample : A1221@1.0 15-5-C Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6242.D\ECD2B.CH Vial: 4  
Acq On : 11 Jul 2001 12:01 pm Operator: RSG  
Sample : AMIX@0.5 15-23-D Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS2.E

Quant Time: Jul 12 11:44 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Tue Jul 10 07:32:52 2001  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\0711PCB\6243.D\ECD1A.CH Vial: 5  
 Acq On : 11 Jul 2001 12:01 pm Operator: RSG  
 Sample : A1232@1.0 15-5-D Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6243.D\ECD2B.CH Vial: 5  
 Acq On : 11 Jul 2001 12:37 pm Operator: RSG  
 Sample : A1221@1.0 15-5-C Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E  
 Quant Time: Jul 12 11:44 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
-----						
System Monitoring Compounds						
1) S Tetrachlorometax	5.95	5.69	618330	168983	0.004	0.001 #
Spiked Amount	0.050		Recovery	=	8.00%	2.00%
S Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount	0.050		Recovery	=	0.00%	0.00%
Target Compounds						
2) L1 Aroclor-1016	7.18	6.66	3463375	3570294	0.116	0.302 #
3) L1 Aroclor-1016 {2}	7.81	7.30	4684526	3048007	0.105	0.123
4) L1 Aroclor-1016 {3}	8.80	8.17	1643669	2139000	0.116	0.109
5) L1 Aroclor-1016 {4}	9.21	9.37	2125559	1887684	0.168	0.180
Sum Aroclor-1016			11917130	10644985	0.505	0.713
Average Aroclor-1016					0.126	0.178
6) L2 Aroclor-1260	10.48	10.64	335542	385879	0.012	0.014
7) L2 Aroclor-1260 {2}	0.00	11.47	0	173018	N.D.	0.016 #
8) L2 Aroclor-1260 {3}	0.00	0.00	0	0	N.D.	N.D.
9) L2 Aroclor-1260 {4}	0.00	0.00	0	0	N.D.	N.D.
Sum Aroclor-1260			335542	558897	0.012	0.030
Average Aroclor-1260					0.012	0.015

Quantitation Report

Data File : C:\HPCHEM\1\DATA\0711PCB\6243.D\ECD1A.CH  
Acq On : 11 Jul 2001 12:01 pm  
Sample : A1232@1.0 15-5-D  
Misc :  
IntFile : EVENTS.E

Vial: 5  
Operator: RSG  
Inst : GC/MS Ins  
Multiplr: 1.00

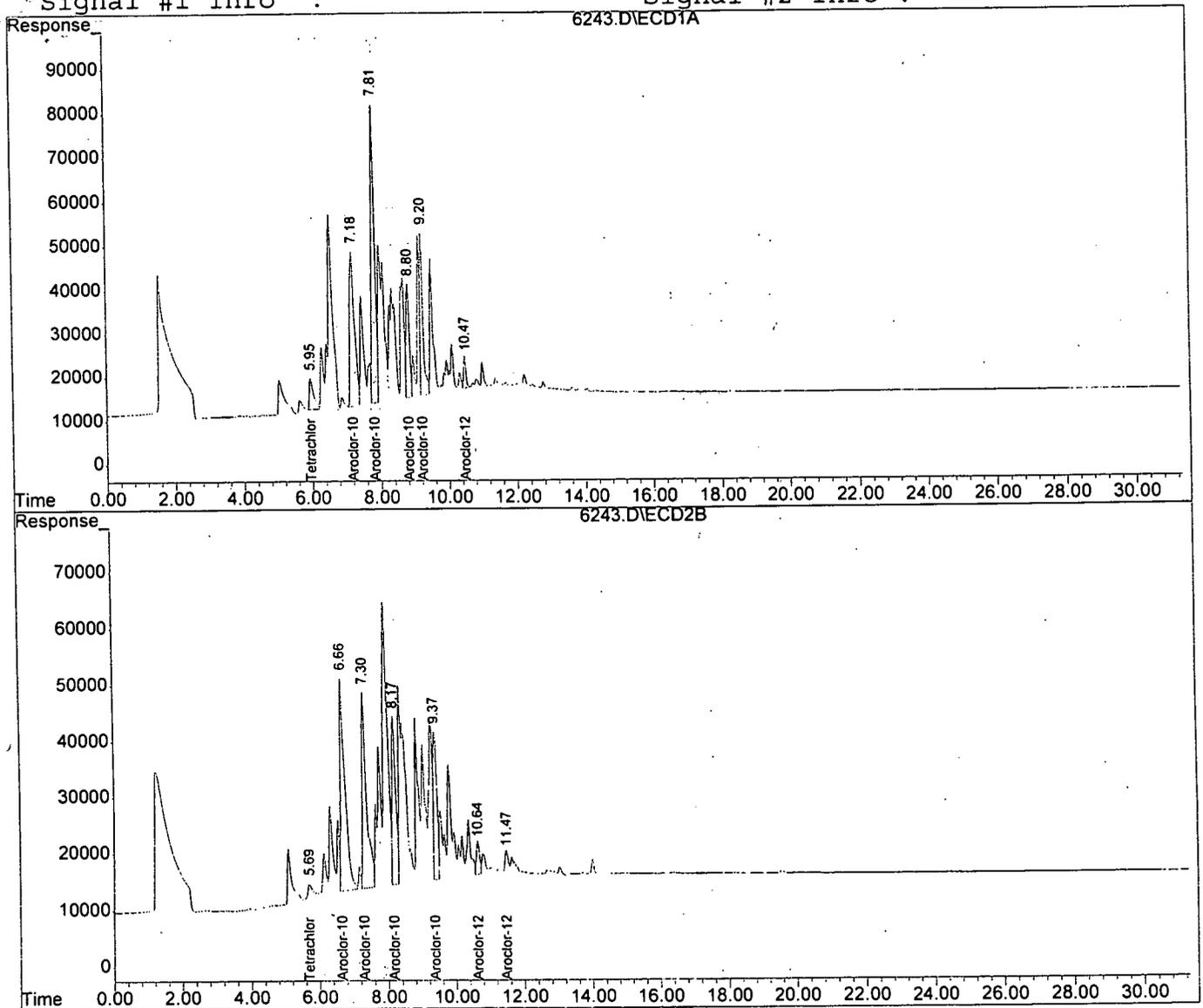
Data File : C:\HPCHEM\1\DATA\0711PCB\6243.D\ECD2B.CH  
Acq On : 11 Jul 2001 12:37 pm  
Sample : A1221@1.0 15-5-C  
Misc :  
IntFile : EVENTS2.E

Vial: 5  
Operator: RSG  
Inst : GC/MS Ins  
Multiplr: 1.00

Quant Time: Jul 12 11:44 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Tue Jul 10 07:32:52 2001  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\0711PCB\6244.D\ECD1A.CH Vial: 6  
 Acq On : 11 Jul 2001 12:37 pm Operator: RSG  
 Sample : A1242@1.0 15-6-A Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6244.D\ECD2B.CH Vial: 6  
 Acq On : 11 Jul 2001 1:13 pm Operator: RSG  
 Sample : A1232@1.0 15-5-D Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E  
 Quant Time: Jul 12 11:44 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
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System Monitoring Compounds

1) S Tetrachlorometax	5.95	0.00	423724	0	0.003	N.D. #
Spiked Amount	0.050		Recovery	=	6.00%	0.00%
1 S Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount	0.050		Recovery	=	0.00%	0.00%

Target Compounds

2) L1 Aroclor-1016	7.17	6.66	5210704	2414301	0.175	0.205
3) L1 Aroclor-1016 {2}	7.81	7.30	7984418	4622575	0.179	0.186
4) L1 Aroclor-1016 {3}	8.81	8.17	3248822	3552870	0.228	0.181
5) L1 Aroclor-1016 {4}	9.20	9.36	4198470	3532298	0.332	0.336
Sum Aroclor-1016			20642413	14122044	0.914	0.907
Average Aroclor-1016					0.229	0.227
6) L2 Aroclor-1260	10.48	10.63	892791	773293	0.031	0.028
7) L2 Aroclor-1260 {2}	0.00	11.46	0	576010	N.D.	0.052 #
8) L2 Aroclor-1260 {3}	0.00	0.00	0	0	N.D.	N.D.
9) L2 Aroclor-1260 {4}	0.00	0.00	0	0	N.D.	N.D.
Sum Aroclor-1260			892791	1349302	0.031	0.080
Average Aroclor-1260					0.031	0.040

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

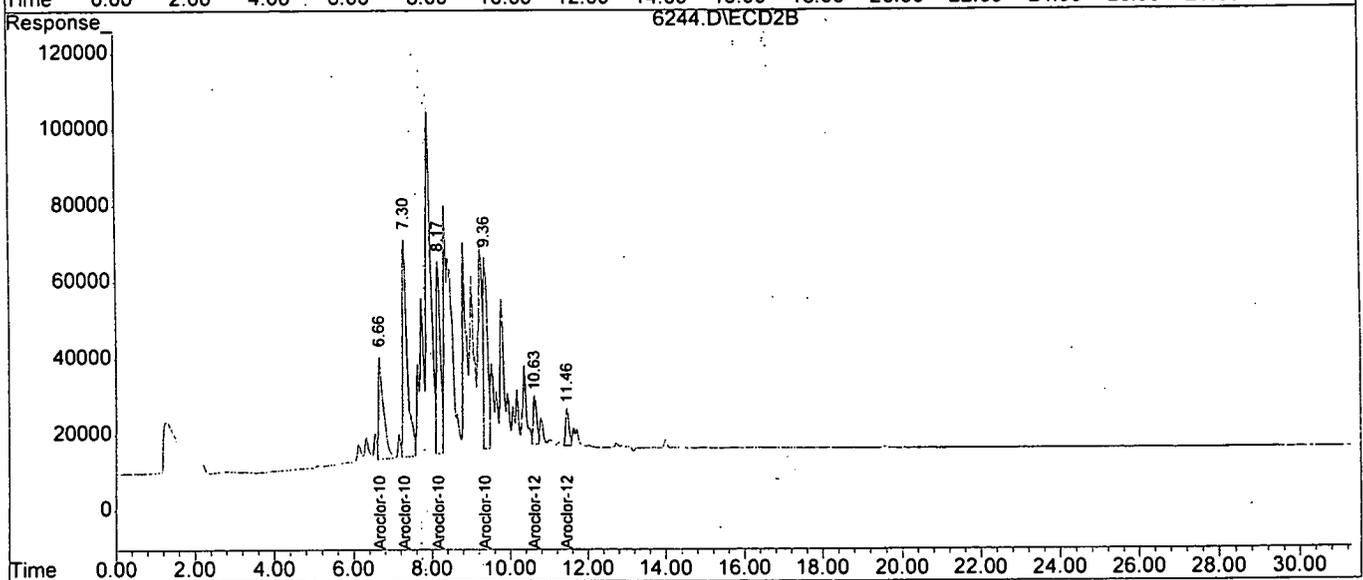
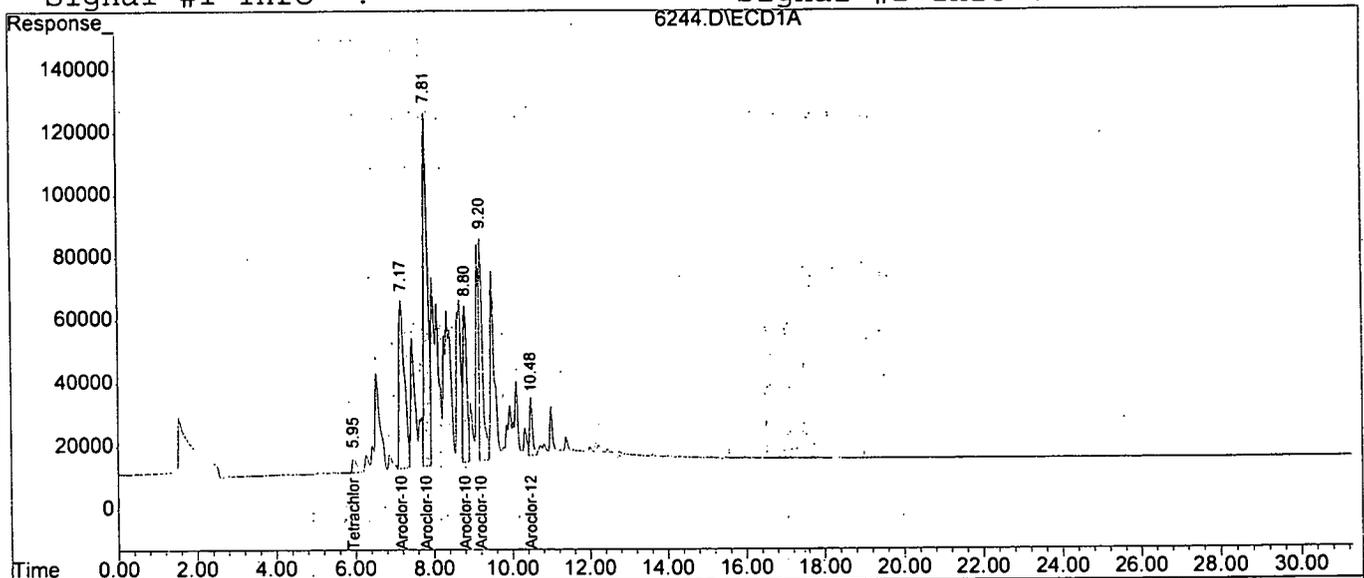
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0711PCB\6244.D\ECD1A.CH Vial: 6  
Acq On : 11 Jul 2001 12:37 pm Operator: RSG  
Sample : A1242@1.0 15-6-A Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6244.D\ECD2B.CH Vial: 6  
Acq On : 11 Jul 2001 1:13 pm Operator: RSG  
Sample : A1232@1.0 15-5-D Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS2.E  
Quant Time: Jul 12 11:44 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Tue Jul 10 07:32:52 2001  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\0711PCB\6245.D\ECD1A.CH Vial: 7  
 Acq On : 11 Jul 2001 1:13 pm Operator: RSG  
 Sample : A1248@1.0 15-6-B Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6245.D\ECD2B.CH Vial: 7  
 Acq On : 11 Jul 2001 1:49 pm Operator: RSG  
 Sample : A1242@1.0 15-6-A Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E

Quant Time: Jul 12 11:45 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
<b>System Monitoring Compounds</b>						
1) S Tetrachlorometax	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount	0.050		Recovery	=	0.00%	0.00%
1 S Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
iked Amount	0.050		Recovery	=	0.00%	0.00%
<b>Target Compounds</b>						
2) L1 Aroclor-1016	7.17	6.67	4164423	680270	0.140	0.058 #
3) L1 Aroclor-1016 {2}	7.81	7.30	7964772	3448537	0.179	0.139
4) L1 Aroclor-1016 {3}	8.81	8.18	6999842	3159815	0.492	0.161 #
5) L1 Aroclor-1016 {4}	9.21	9.40	10094812	4266686	0.798	0.406 #
Sum Aroclor-1016			29223849	11555308	1.608	0.763
Average Aroclor-1016					0.402	0.191
6) L2 Aroclor-1260	10.48	10.62	3066728	2706688	0.107	0.099
7) L2 Aroclor-1260 {2}	12.77	11.25	262937	415891	0.007	0.038 #
8) L2 Aroclor-1260 {3}	13.61	13.03	90872	288420	0.004	0.007 #
9) L2 Aroclor-1260 {4}	0.00	14.42	0	169450	N.D.	0.006 #
Sum Aroclor-1260			3420537	3580450	0.118	0.150
Average Aroclor-1260					0.039	0.038

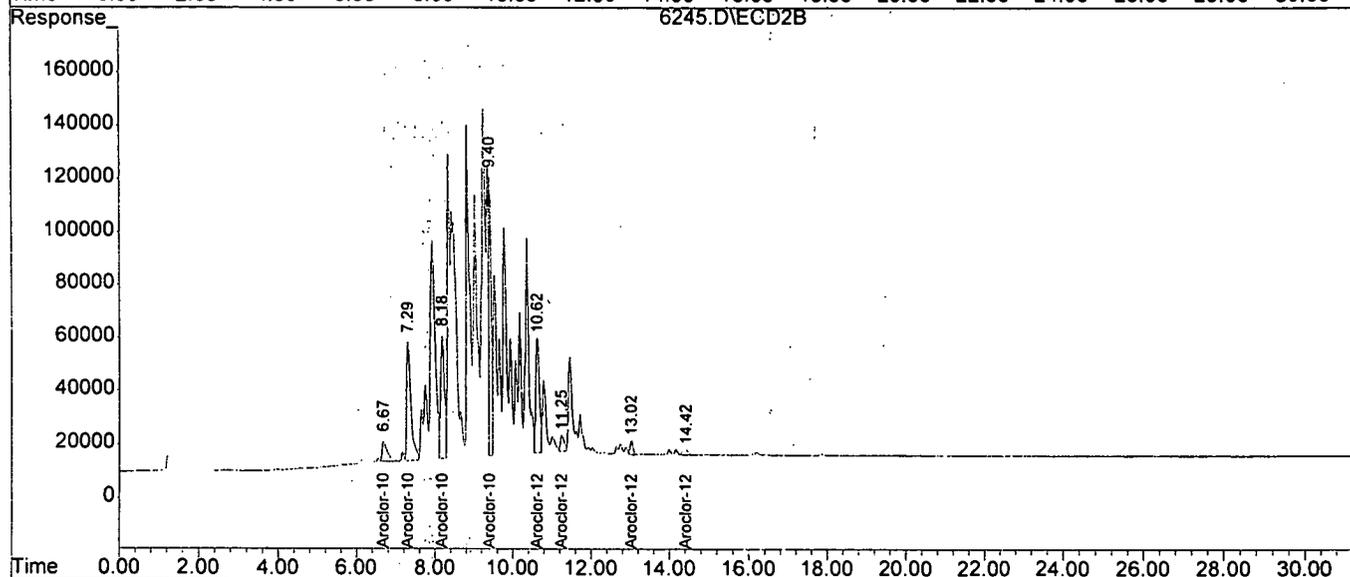
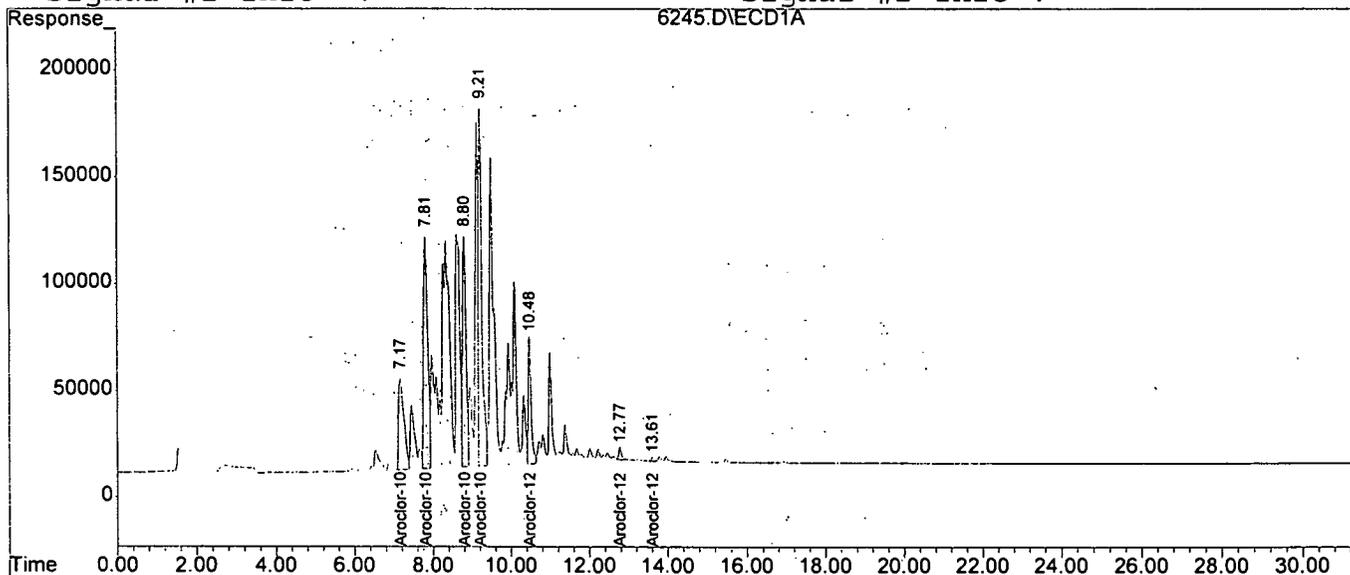
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0711PCB\6245.D\ECD1A.CH Vial: 7  
Acq On : 11 Jul 2001 1:13 pm Operator: RSG  
Sample : A1248@1.0 15-6-B Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6245.D\ECD2B.CH Vial: 7  
Acq On : 11 Jul 2001 1:49 pm Operator: RSG  
Sample : A1242@1.0 15-6-A Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS2.E  
Quant Time: Jul 12 11:45 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Tue Jul 10 07:32:52 2001  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\0711PCB\6246.D\ECD1A.CH Vial: 8  
 Acq On : 11 Jul 2001 1:49 pm Operator: RSG  
 Sample : A1254@1.0 15-6-C Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6246.D\ECD2B.CH Vial: 8  
 Acq On : 11 Jul 2001 2:25 pm Operator: RSG  
 Sample : A1248@1.0 15-6-B Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E

Quant Time: Jul 12 11:45 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
<b>System Monitoring Compounds</b>						
1) S Tetrachlorometax	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount	0.050		Recovery	=	0.00%	0.00%
S Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount	0.050		Recovery	=	0.00%	0.00%
<b>Target Compounds</b>						
2) L1 Aroclor-1016	0.00	0.00	0	0	N.D.	N.D.
3) L1 Aroclor-1016 {2}	7.81	7.30	330414	151433	0.007	0.006
4) L1 Aroclor-1016 {3}	8.80	8.19	931352	123452	0.065	0.006 #
5) L1 Aroclor-1016 {4}	9.22	9.42	6667907	4745823	0.527	0.452
Sum Aroclor-1016			7929672	5020708	0.600	0.464
Average Aroclor-1016					0.200	0.155
6) L2 Aroclor-1260	10.47	10.64	8360975	6835797	0.291	0.251
7) L2 Aroclor-1260 {2}	12.77	11.23	955138	1193689	0.025	0.108 #
8) L2 Aroclor-1260 {3}	13.61	13.03	834636	740622	0.040	0.019 #
9) L2 Aroclor-1260 {4}	0.00	14.41	0	558559	N.D.	0.020 #
Sum Aroclor-1260			10150749	9328666	0.356	0.398
Average Aroclor-1260					0.119	0.099

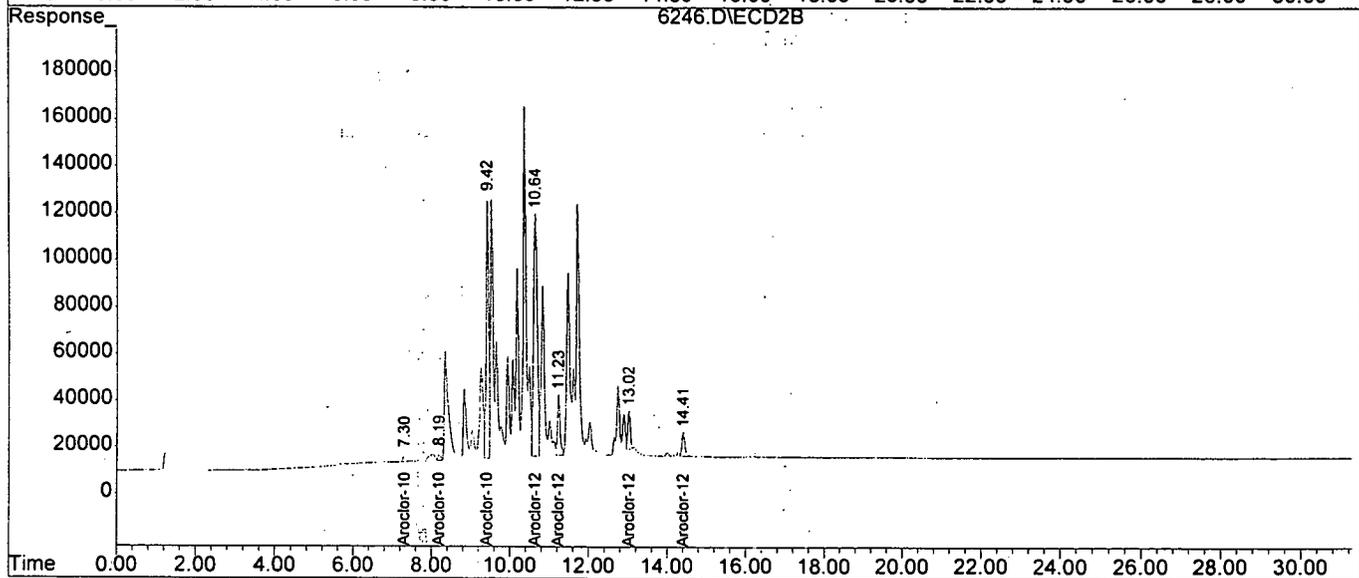
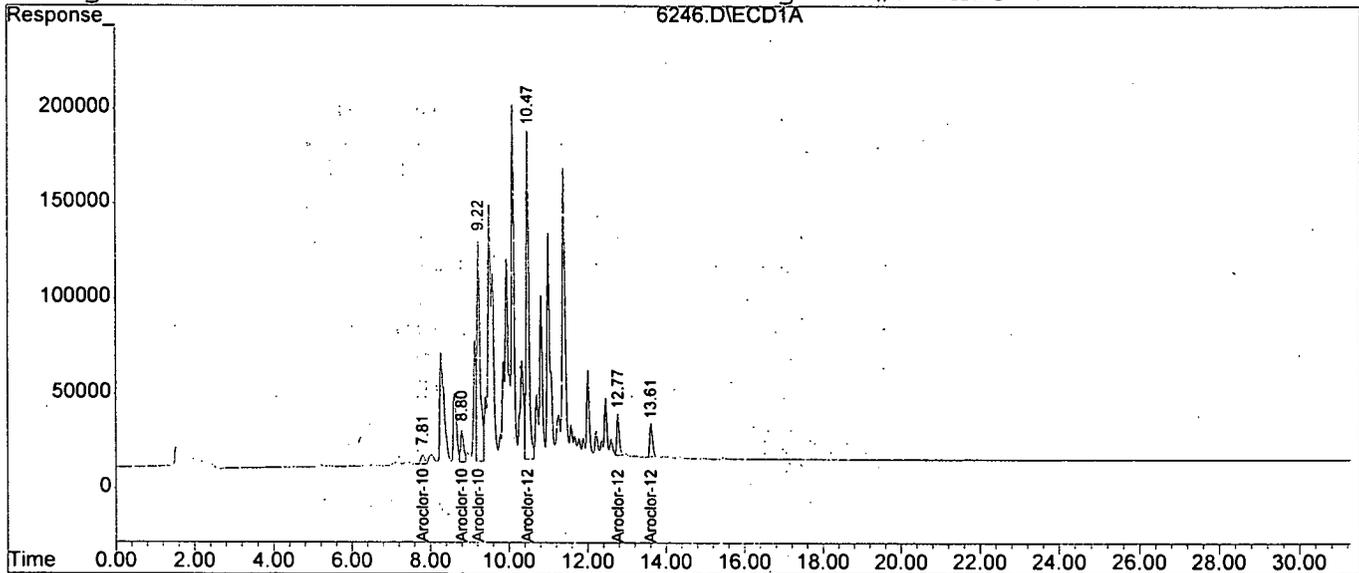
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0711PCB\6246.D\ECD1A.CH Vial: 8  
Acq On : 11 Jul 2001 1:49 pm Operator: RSG  
Sample : A1254@1.0 15-6-C Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6246.D\ECD2B.CH Vial: 8  
Acq On : 11 Jul 2001 2:25 pm Operator: RSG  
Sample : A1248@1.0 15-6-B Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS2.E  
Quant Time: Jul 12 11:45 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Tue Jul 10 07:32:52 2001  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\0711PCB\6244.D\ECD1A.CH Vial: 6  
 Acq On : 11 Jul 2001 12:37 pm Operator: RSG  
 Sample : A1242@1.0 15-6-A Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : events.e

Data File : C:\HPCHEM\1\DATA\0711PCB\6244.D\ECD2B.CH Vial: 6  
 Acq On : 11 Jul 2001 1:13 pm Operator: RSG  
 Sample : A1232@1.0 15-5-D Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : events2.e

Quant Time: Jul 13 8:50 2001 Quant Results File: PCB1242.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB1242.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Fri Jul 13 08:50:20 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
<b>System Monitoring Compounds</b>						
1) S Tetrachlorometax	0.00	6.55	0	395264	N.D.	1.000 #
6) S Decachlorobiphen	0.00	0.00	0	0	N.D.	N.D.
<b>Target Compounds</b>						
2) L1 Aroclor-1242	6.53	7.30	2734012	4905519	0.250	0.250
3) L1 Aroclor-1242 {2}	7.17	7.93	5327354	8070645	0.250	0.250
4) L1 Aroclor-1242 {3}	7.81	8.83	8112526	2334267	0.250	0.250
5) L1 Aroclor-1242 {4}	9.49	9.79	4499584	2637867	0.250	0.250
Sum Aroclor-1242			20673477	17948298	1.000	1.000
Average Aroclor-1242					0.250	0.250

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

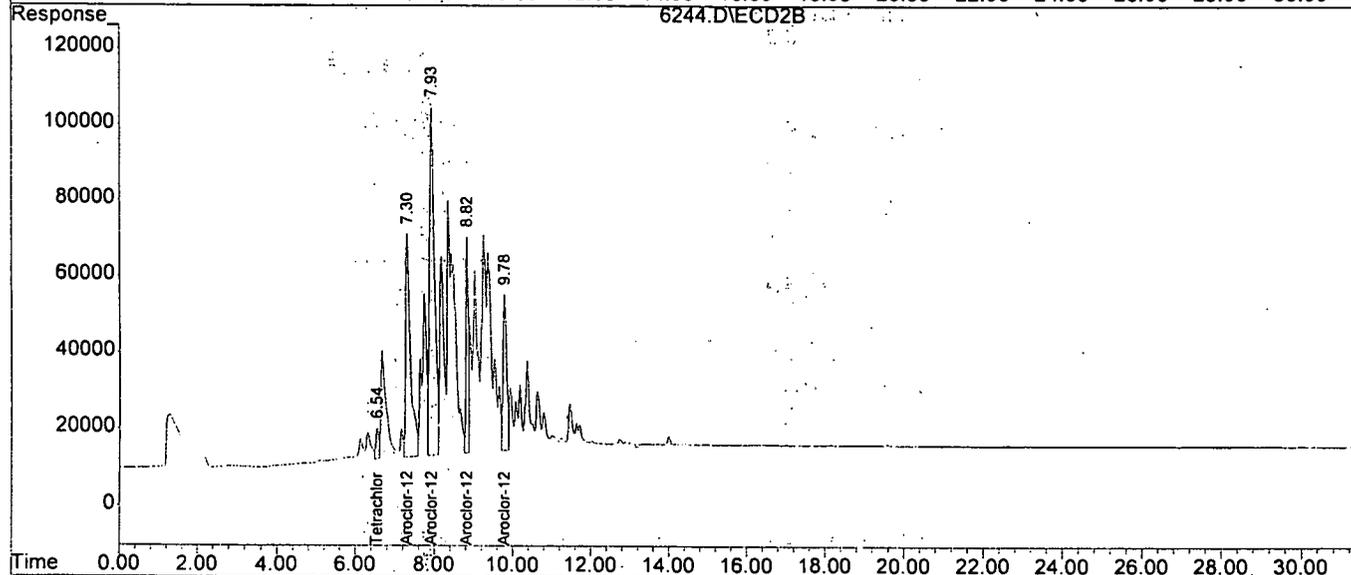
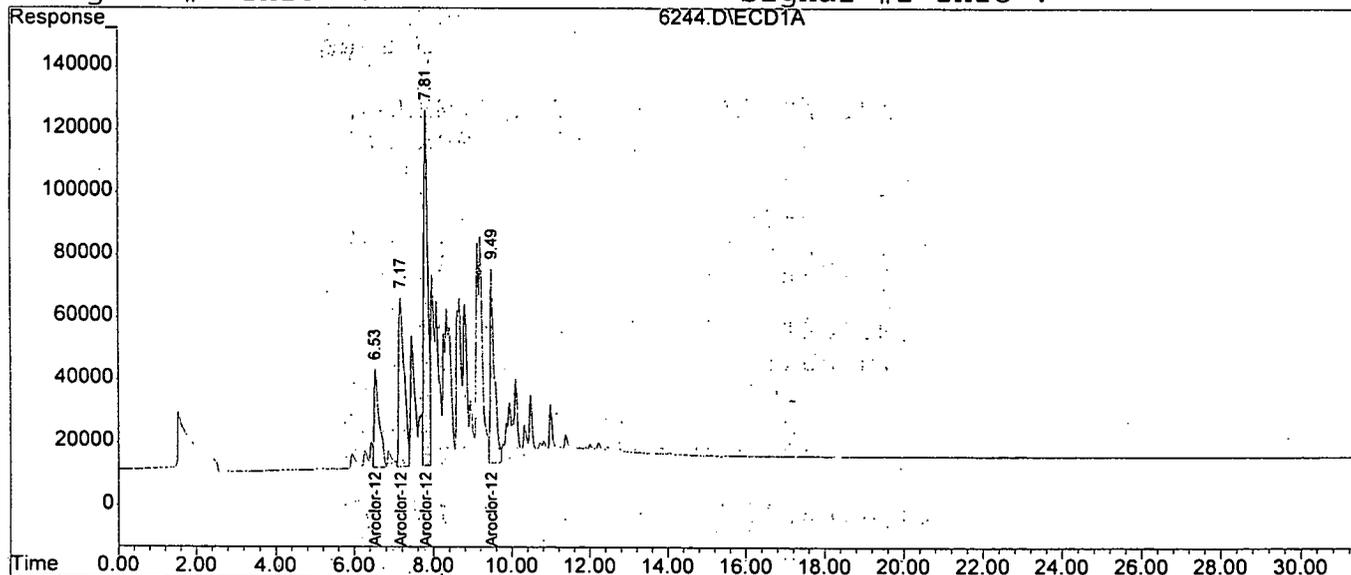
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Acq On : 11 Jul 2001 12:37 pm Operator: RSG  
Sample : A1242@1.0 15-6-A Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\0711PCB\6244.D\ECD2B.CH Vial: 6  
Acq On : 11 Jul 2001 1:13 pm Operator: RSG  
Sample : A1232@1.0 15-5-D Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : events2.e

Quant Time: Jul 13 8:50 2001 Quant Results File: PCB1242.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB1242.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Fri Jul 13 08:50:20 2001  
Response via : Single Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\0711PCB\6254.D\ECD1A.CH Vial: 16  
 Acq On : 11 Jul 2001 6:39 pm Operator: RSG  
 Sample : C1F0263-16@5X Inst : GC/MS Ins  
 Misc : *# 242 attached* Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6254.D\ECD2B.CH Vial: 16  
 Acq On : 11 Jul 2001 7:15 pm Operator: RSG  
 Sample : C1F0189-03 Hg Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E

Quant Time: Jul 12 11:46 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 & 1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
<b>System Monitoring Compounds</b>						
1) S Tetrachlorometax	6.04	5.78	1456347	1599449	0.010 ✓	0.013 #
Spiked Amount	0.050		Recovery	=	20.00%	26.00%
S Decachlorobiphen	18.30	19.57	1489062	1409856	0.016 ✓	0.015
Spiked Amount	0.050		Recovery	=	32.00%	30.00%
<b>Target Compounds</b>						
2) L1 Aroclor-1016	7.17	6.66	6356077	5273001	0.214	0.447 #
3) L1 Aroclor-1016 {2}	7.81	7.29	10571723	5653236	0.237	0.227
4) L1 Aroclor-1016 {3}	8.80	8.14	2783489	3493099	0.196	0.178
5) L1 Aroclor-1016 {4}	9.20	9.40	3098961	1031738	0.245	0.098 #
Sum Aroclor-1016			22810250	15451075	0.891	0.950
Average Aroclor-1016					0.223	0.237
6) L2 Aroclor-1260	10.47	10.61	1201894	1032445	0.042	0.038
7) L2 Aroclor-1260 {2}	12.77	11.32	123970	5142190	0.003	0.465 #
8) L2 Aroclor-1260 {3}	13.60	13.02	183730	77322	0.009	0.002 #
9) L2 Aroclor-1260 {4}	15.13f	14.44	94222	119913	0.010	0.004 #
Sum Aroclor-1260			1603816	6371870	0.064	0.509
Average Aroclor-1260					0.016	0.127

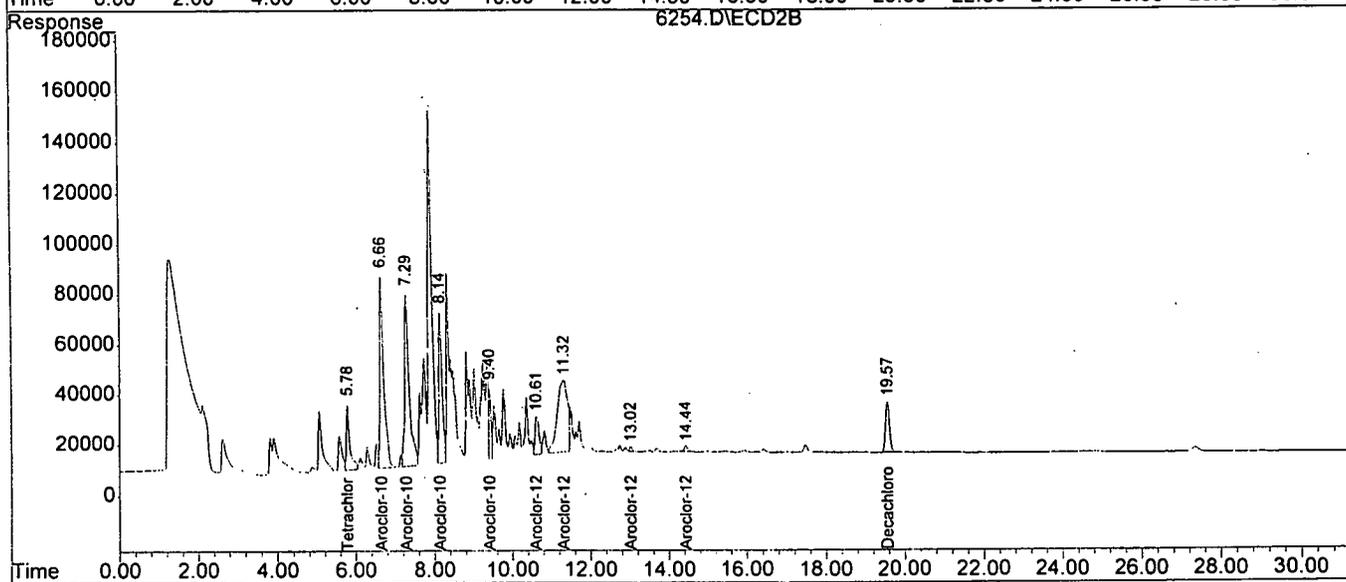
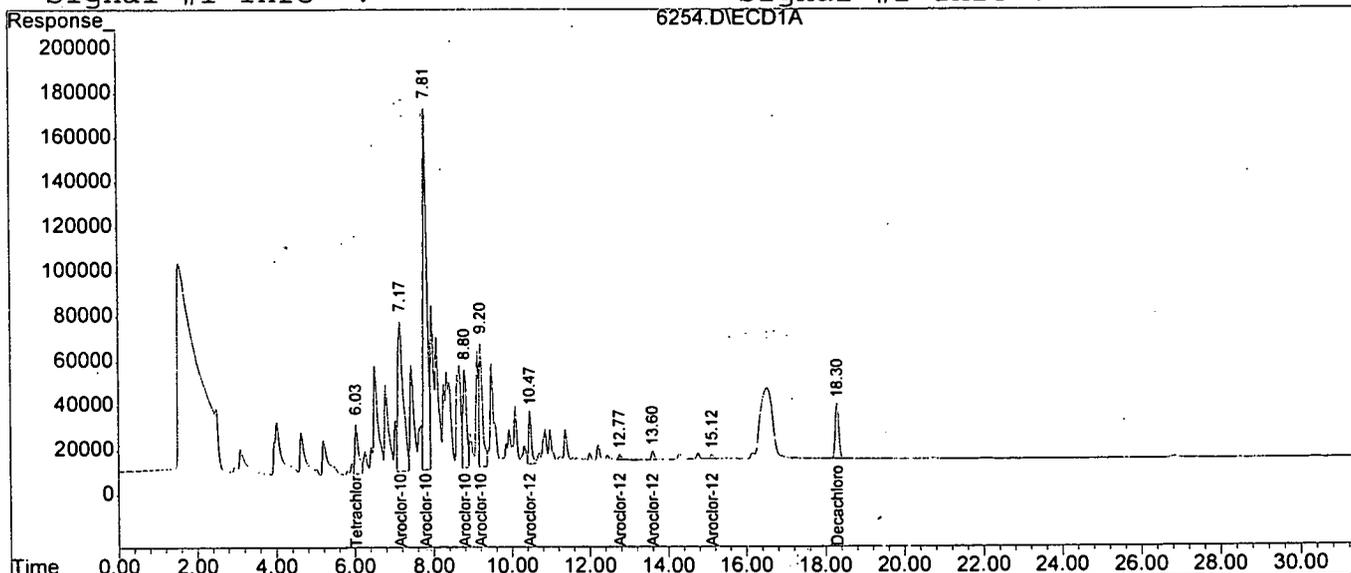
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0711PCB\6254.D\ECD1A.CH Vial: 16  
Acq On : 11 Jul 2001 6:39 pm Operator: RSG  
Sample : C1F0263-16@5X Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS.E

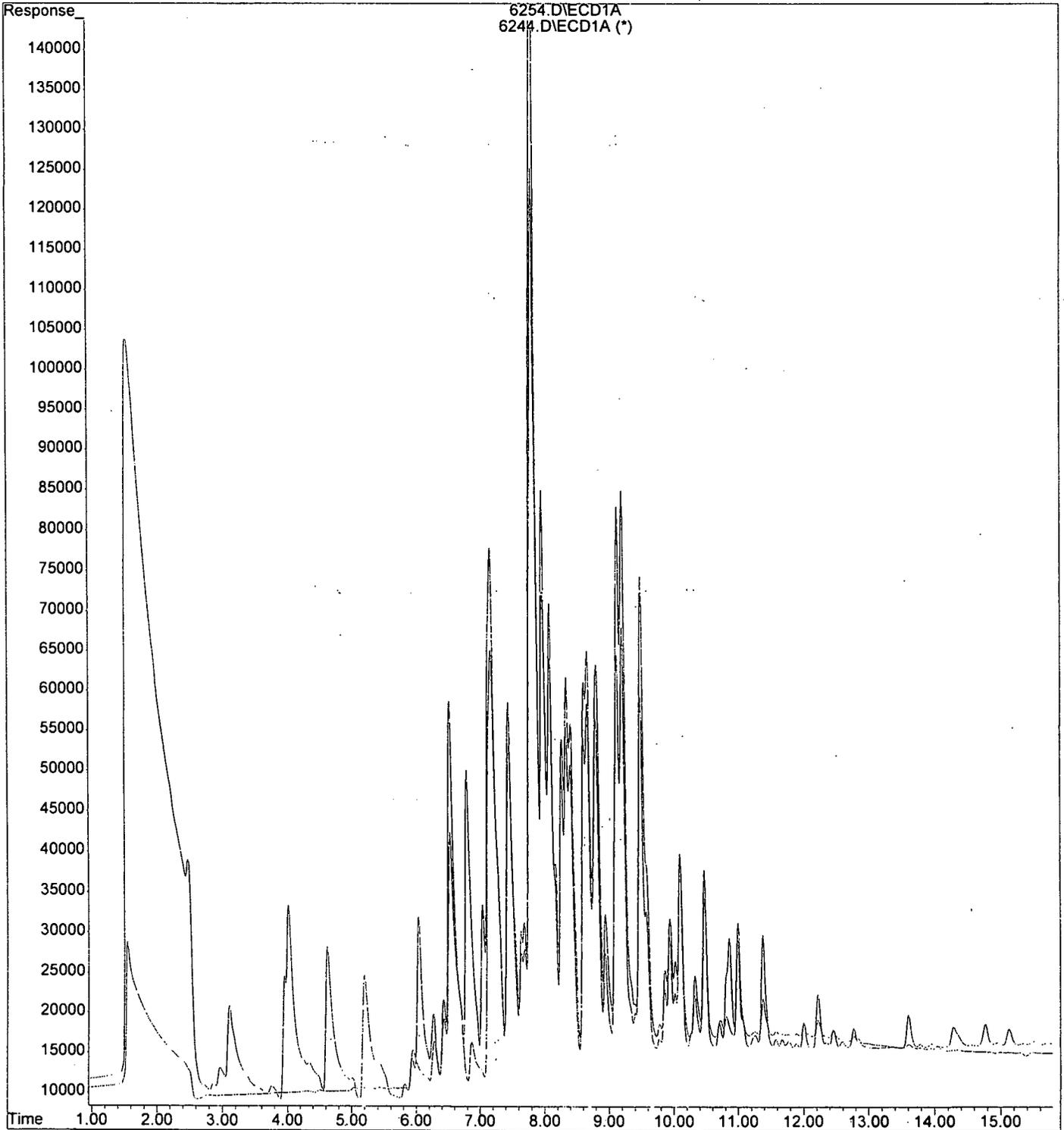
Data File : C:\HPCHEM\1\DATA\0711PCB\6254.D\ECD2B.CH Vial: 16  
Acq On : 11 Jul 2001 7:15 pm Operator: RSG  
Sample : C1F0189-03 Hg Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS2.E  
Quant Time: Jul 12 11:46 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Tue Jul 10 07:32:52 2001  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



File : C:\HPCHEM\1\DATA\0711PCB\6254.D  
Operator : RSG  
Acquired : 11 Jul 2001 6:39 pm using AcqMethod PCB0528.M  
Instrument : GC/MS Ins  
Sample Name: C1F0263-16@5X  
Misc Info :  
Vial Number: 16



Data File : C:\HPCHEM\1\DATA\0711PCB\6254.D\ECD1A.CH Vial: 16  
 Acq On : 11 Jul 2001 6:39 pm Operator: RSG  
 Sample : C1F0263-16@5X Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : events.e

Data File : C:\HPCHEM\1\DATA\0711PCB\6254.D\ECD2B.CH Vial: 16  
 Acq On : 11 Jul 2001 7:15 pm Operator: RSG  
 Sample : C1F0189-03 Hg Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : events2.e  
 Quant Time: Jul 13 8:50 2001 Quant Results File: PCB1242.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB1242.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Fri Jul 13 08:50:20 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
-----						
System Monitoring Compounds						
1) S Tetrachlorometax	0.00	6.53	0	412413	N.D.	1.043 #
6) S Decachlorobiphen	0.00	24.83	0	74834	N.D.	0.038 #
Target Compounds						
2) L1 Aroclor-1242	6.52	7.29	3730711	5660841	0.341	0.288
3) L1 Aroclor-1242 {2}	7.17	7.91	6391303	9583911	0.300	0.297
4) L1 Aroclor-1242 {3}	7.81	8.82	10603002	1586854	0.327	0.170 #
5) L1 Aroclor-1242 {4}	9.49	9.77	2472778	1524160	0.137	0.144
Sum Aroclor-1242			23197794	18355767	1.105 ✓	0.900
Average Aroclor-1242					0.276	0.225

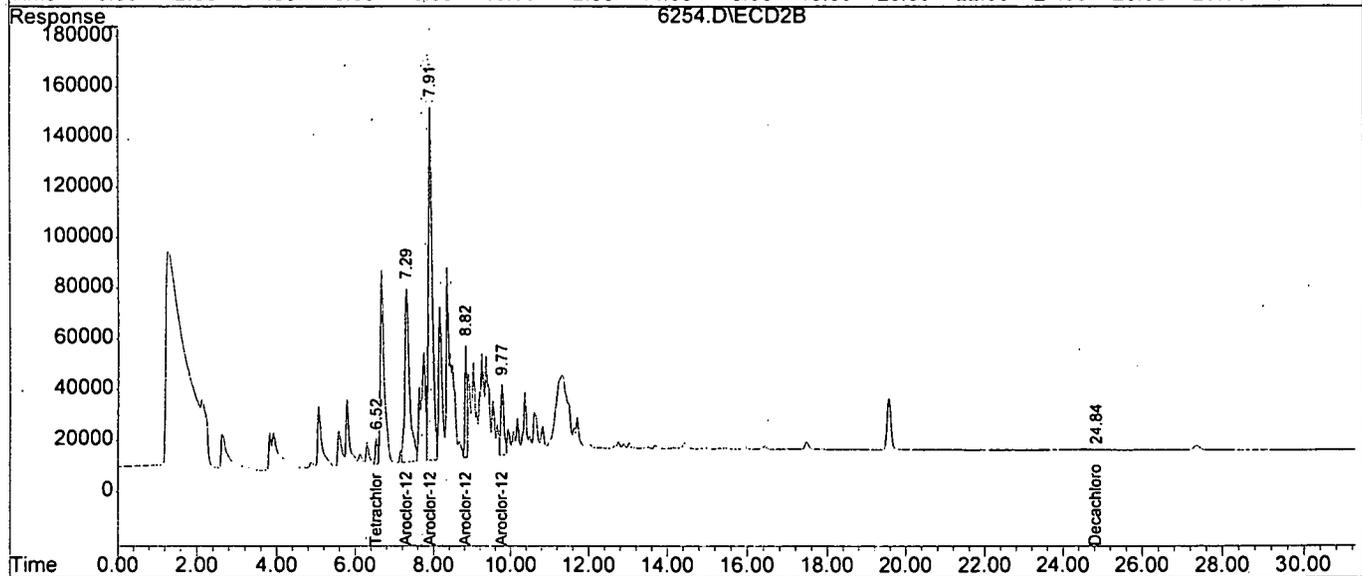
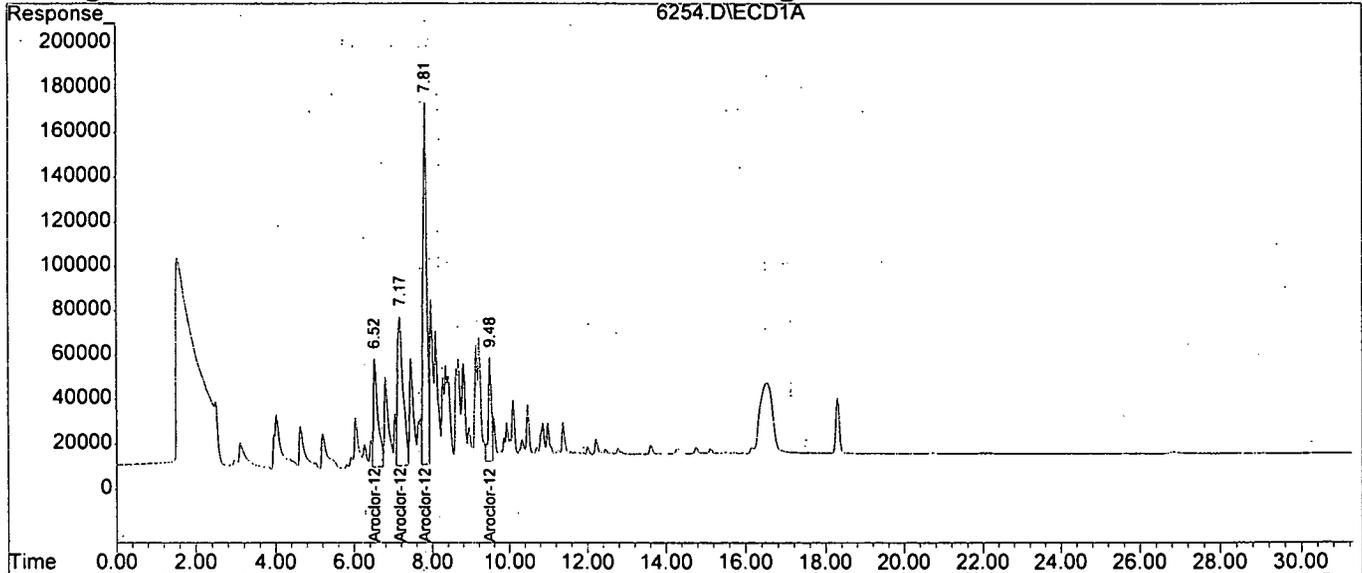
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0711PCB\6254.D\ECD1A.CH Vial: 16  
Acq On : 11 Jul 2001 6:39 pm Operator: RSG  
Sample : C1F0263-16@5X Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\0711PCB\6254.D\ECD2B.CH Vial: 16  
Acq On : 11 Jul 2001 7:15 pm Operator: RSG  
Sample : C1F0189-03 Hg Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : events2.e  
Quant Time: Jul 13 8:50 2001 Quant Results File: PCB1242.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB1242.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Fri Jul 13 08:50:20 2001  
Response via : Single Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\0711PCB\6255.D\ECD1A.CH Vial: 17  
 Acq On : 11 Jul 2001 7:15 pm Operator: RSG  
 Sample : C1F0263-17@5X Inst : GC/MS Ins  
 Misc : *1242 Attached* Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6255.D\ECD2B.CH Vial: 17  
 Acq On : 11 Jul 2001 7:51 pm Operator: RSG  
 Sample : C1F0263-16@5X Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E

Quant Time: Jul 12 11:46 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
<b>System Monitoring Compounds</b>						
1) S Tetrachlorometax	6.04	5.79	1844641	2022507	0.013 ✓	0.016 #
Spiked Amount	0.050		Recovery	=	26.00%	32.00%
1) S Decachlorobiphen	18.30	19.58	1389319	1429241	0.015 ✓	0.016
Spiked Amount	0.050		Recovery	=	30.00%	32.00%
<b>Target Compounds</b>						
2) L1 Aroclor-1016	7.17	6.66	10042732	6138122	0.337	0.520 #
3) L1 Aroclor-1016 {2}	7.81	7.30	17301060	8966284	0.388	0.361
4) L1 Aroclor-1016 {3}	8.80	8.15	4672409	6370110	0.328	0.324
5) L1 Aroclor-1016 {4}	9.21	9.36	3644910	3077565	0.288	0.293
Sum Aroclor-1016			35661110	24552080	1.342	1.497
Average Aroclor-1016					0.335	0.374
6) L2 Aroclor-1260	10.47	10.64	1039014	823575	0.036	0.030
7) L2 Aroclor-1260 {2}	12.77	11.24	147566	159835	0.004	0.014 #
8) L2 Aroclor-1260 {3}	13.61	13.02	332305	216457	0.016	0.006 #
9) L2 Aroclor-1260 {4}	15.53	14.44	446698	605726	0.050	0.022 #
Sum Aroclor-1260			1965583	1805593	0.106	0.072
Average Aroclor-1260					0.026	0.018

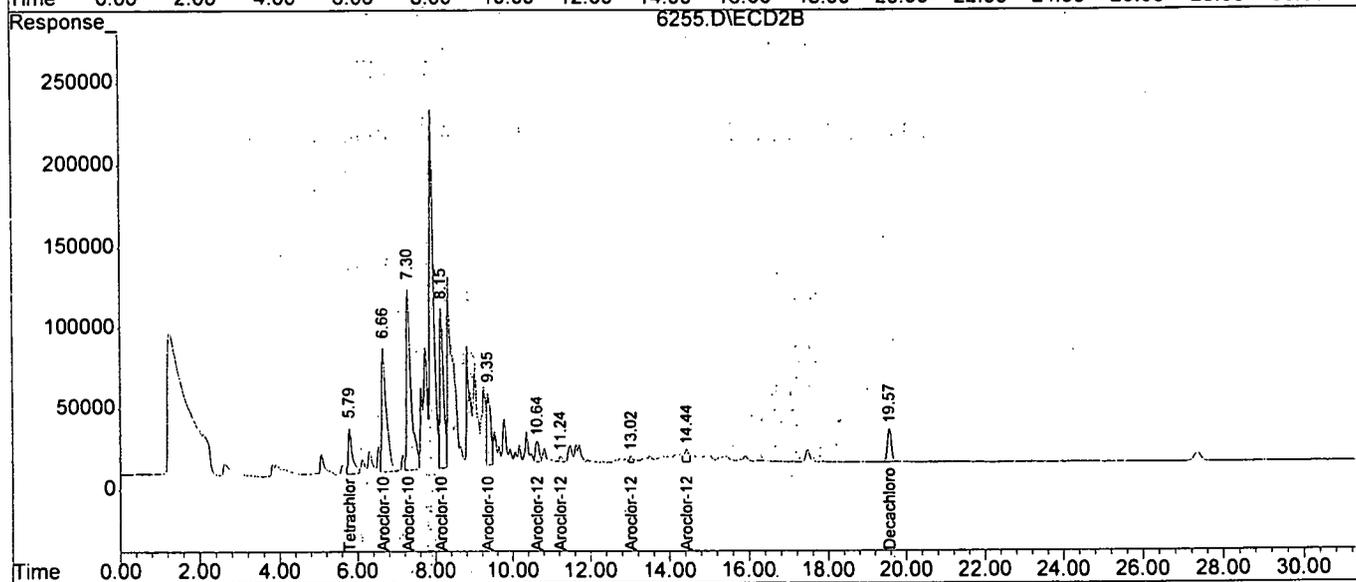
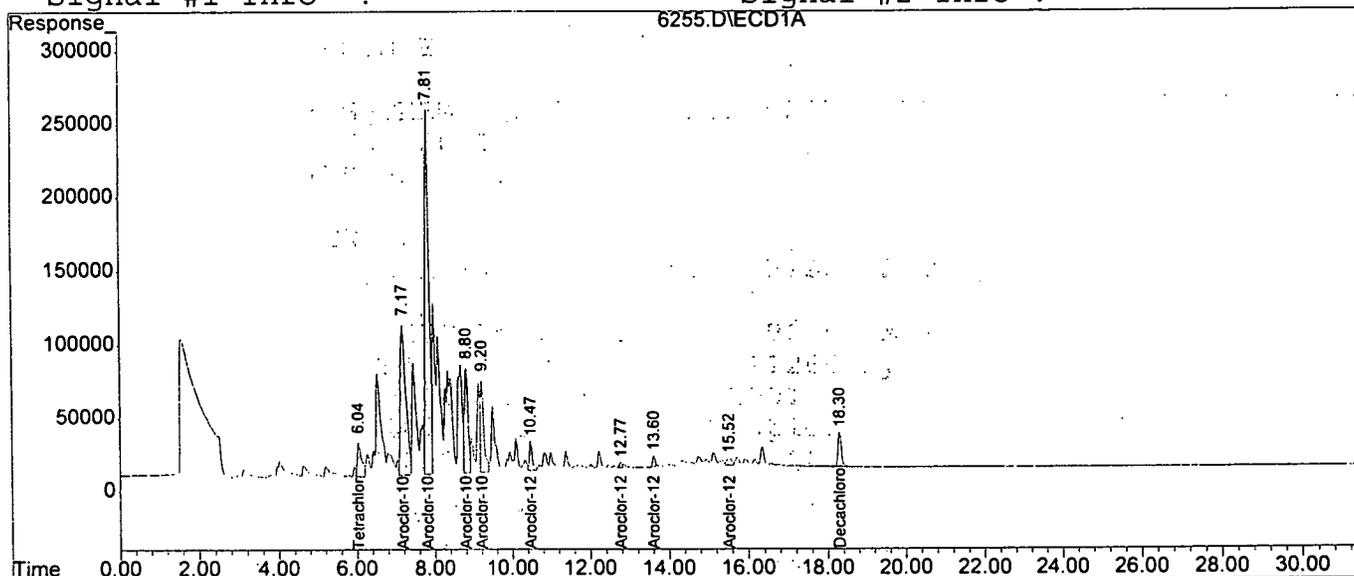
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0711PCB\6255.D\ECD1A.CH Vial: 17  
Acq On : 11 Jul 2001 7:15 pm Operator: RSG  
Sample : C1F0263-17@5X Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS.E

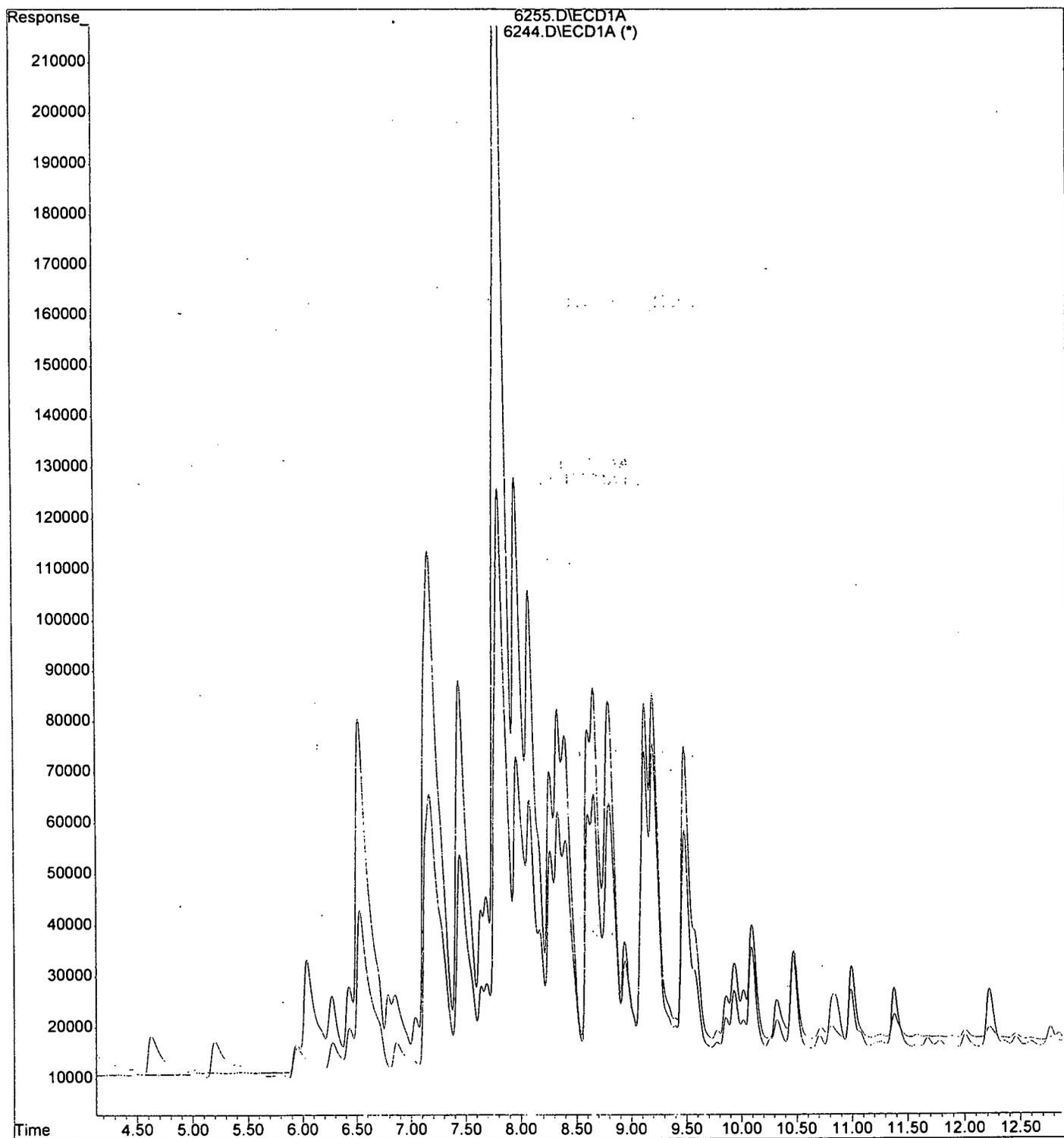
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Acq On : 11 Jul 2001 7:51 pm Operator: RSG  
Sample : C1F0263-16@5X Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS2.E  
Quant Time: Jul 12 11:46 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Tue Jul 10 07:32:52 2001  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



File : C:\HPCHEM\1\DATA\0711PCB\6255.D  
Operator : RSG  
Acquired : 11 Jul 2001 7:15 pm using AcqMethod PCB0528.M  
Instrument : GC/MS Ins  
Sample Name: C1F0263-17@5X  
Misc Info :  
Vial Number: 17



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\0711PCB\6255.D\ECD1A.CH Vial: 17  
 Acq On : 11 Jul 2001 7:15 pm Operator: RSG  
 Sample : C1F0263-17@5X Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : events.e

Data File : C:\HPCHEM\1\DATA\0711PCB\6255.D\ECD2B.CH Vial: 17  
 Acq On : 11 Jul 2001 7:51 pm Operator: RSG  
 Sample : C1F0263-16@5X Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : events2.e  
 Quant Time: Jul 13 8:51 2001 Quant Results File: PCB1242.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB1242.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Fri Jul 13 08:50:20 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
-----						
System Monitoring Compounds						
1) S Tetrachlorometax	0.00	6.54	0	771528	N.D.	1.952 #
6) S Decachlorobiphen	17.20	25.46f	346144	21634	36.331	0.011 #
Target Compounds						
2) L1 Aroclor-1242	6.53	7.30	6197726	9351695	0.567	0.477
3) L1 Aroclor-1242 {2}	7.17	7.92	10595067	16797127	0.497	0.520
4) L1 Aroclor-1242 {3}	7.81	8.82	17325903	3015554	0.534	0.323 #
5) L1 Aroclor-1242 {4}	9.49	9.78	3468172	2028923	0.193	0.192
Sum Aroclor-1242			37586868	31193300	1.791 ✓	1.512
Average Aroclor-1242					0.448	0.378

Quantitation Report

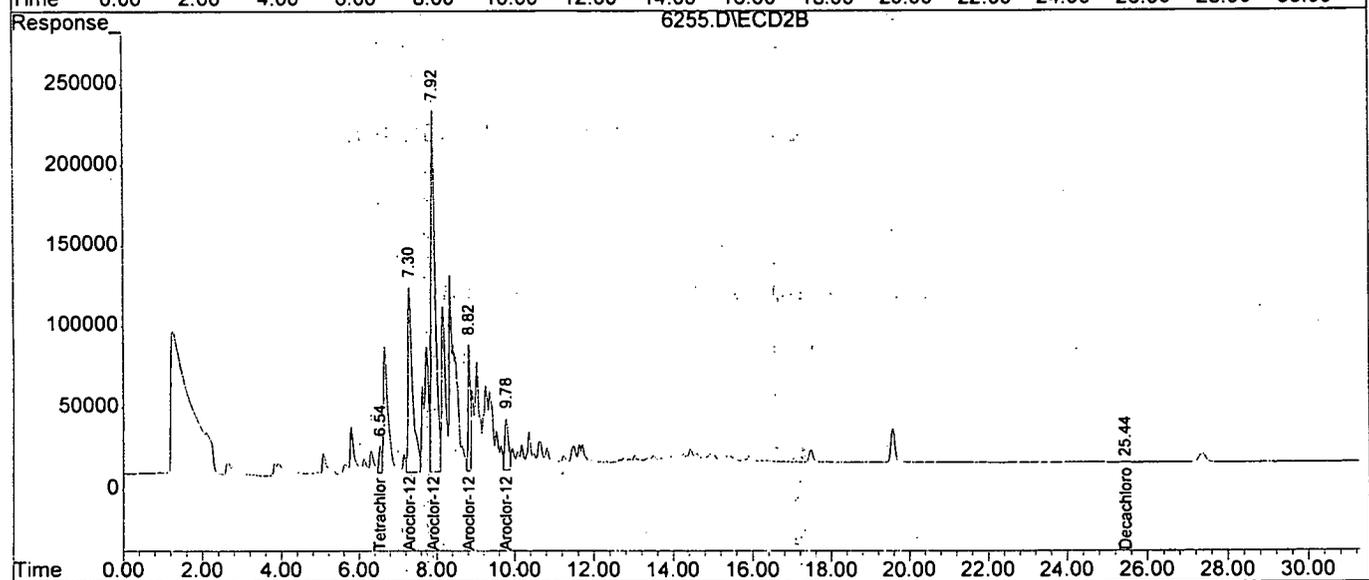
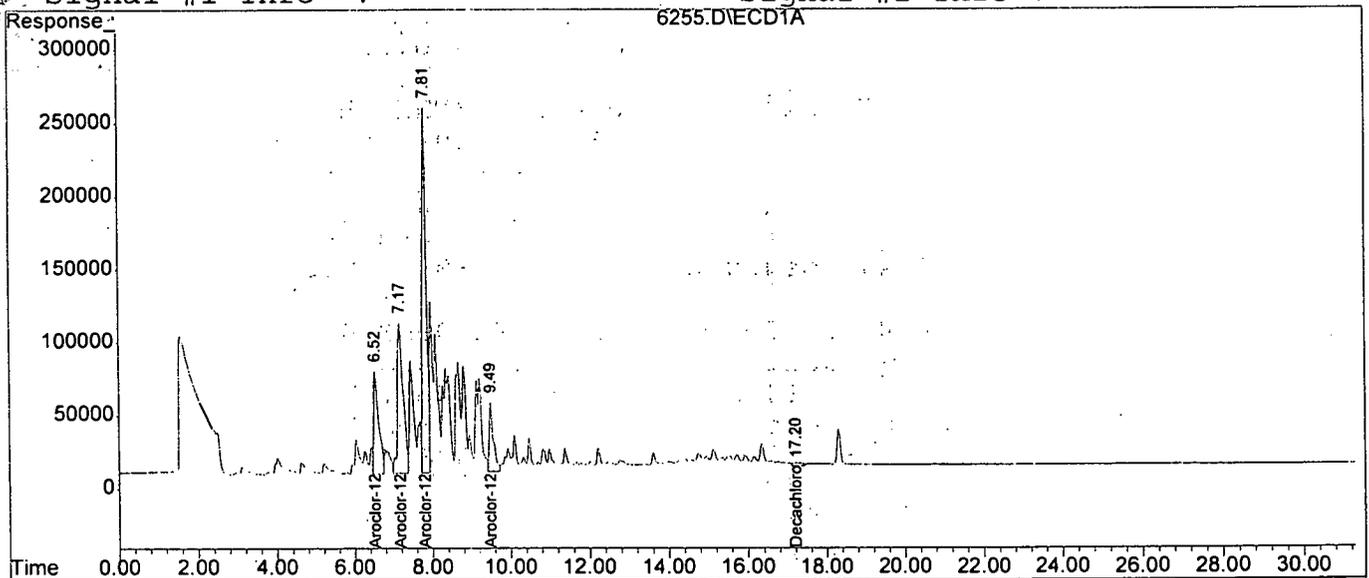
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Acq On : 11 Jul 2001 7:15 pm Operator: RSG  
Sample : C1F0263-17@5X Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\0711PCB\6255.D\ECD2B.CH Vial: 17  
Acq On : 11 Jul 2001 7:51 pm Operator: RSG  
Sample : C1F0263-16@5X Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : events2.e

Quant Time: Jul 13 8:51 2001 Quant Results File: PCB1242.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB1242.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Fri Jul 13 08:50:20 2001  
Response via : Single Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\0711PCB\6256.D\ECD1A.CH Vial: 18  
 Acq On : 11 Jul 2001 7:51 pm Operator: RSG  
 Sample : C1F0263-18@5X Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS.E

*1242 Attached*

Data File : C:\HPCHEM\1\DATA\0711PCB\6256.D\ECD2B.CH Vial: 18  
 Acq On : 11 Jul 2001 8:27 pm Operator: RSG  
 Sample : C1F0263-17@5X Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E  
 Quant Time: Jul 12 11:46 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
<b>System Monitoring Compounds</b>						
1) S Tetrachlorometax	6.04	5.79	1627968	1794460	0.011	0.014 #
Spiked Amount	0.050		Recovery	=	22.00%	28.00%
S Decachlorobiphen	18.30	19.57	1357245	1474893	0.014	0.016
Spiked Amount	0.050		Recovery	=	28.00%	32.00%
<b>Target Compounds</b>						
2) L1 Aroclor-1016	7.17	6.65	9233778	5212589	0.310	0.442 #
3) L1 Aroclor-1016 {2}	7.81	7.30	16108362	8086271	0.361	0.325
4) L1 Aroclor-1016 {3}	8.80	8.15	4384859	6123227	0.308	0.311
5) L1 Aroclor-1016 {4}	9.21	9.35	3548059	3085340	0.280	0.294
Sum Aroclor-1016			33275058	22507428	1.260	1.372
Average Aroclor-1016					0.315	0.343
6) L2 Aroclor-1260	10.47	10.64	923044	938787	0.032	0.034
7) L2 Aroclor-1260 {2}	12.77	11.23	186792	133798	0.005	0.012 #
8) L2 Aroclor-1260 {3}	13.60	13.02	825035	107703	0.040	0.003 #
9) L2 Aroclor-1260 {4}	15.52	14.44	319158	973957	0.035	0.035
Sum Aroclor-1260			2254030	2154244	0.112	0.084
Average Aroclor-1260					0.028	0.021

Quantitation Report

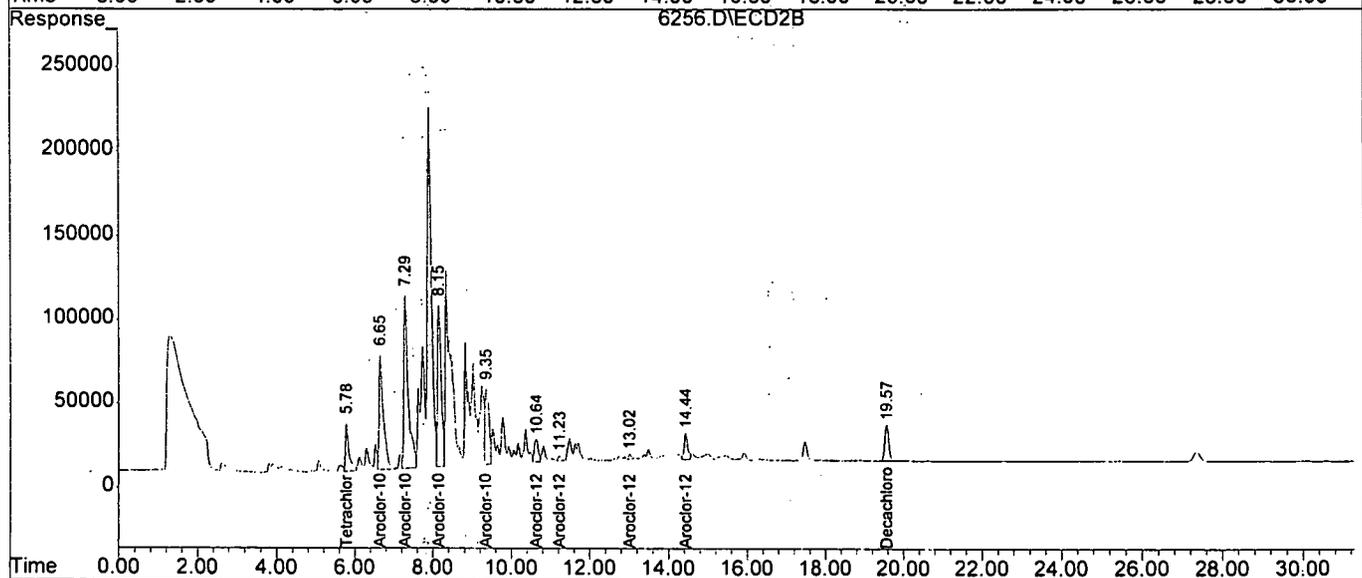
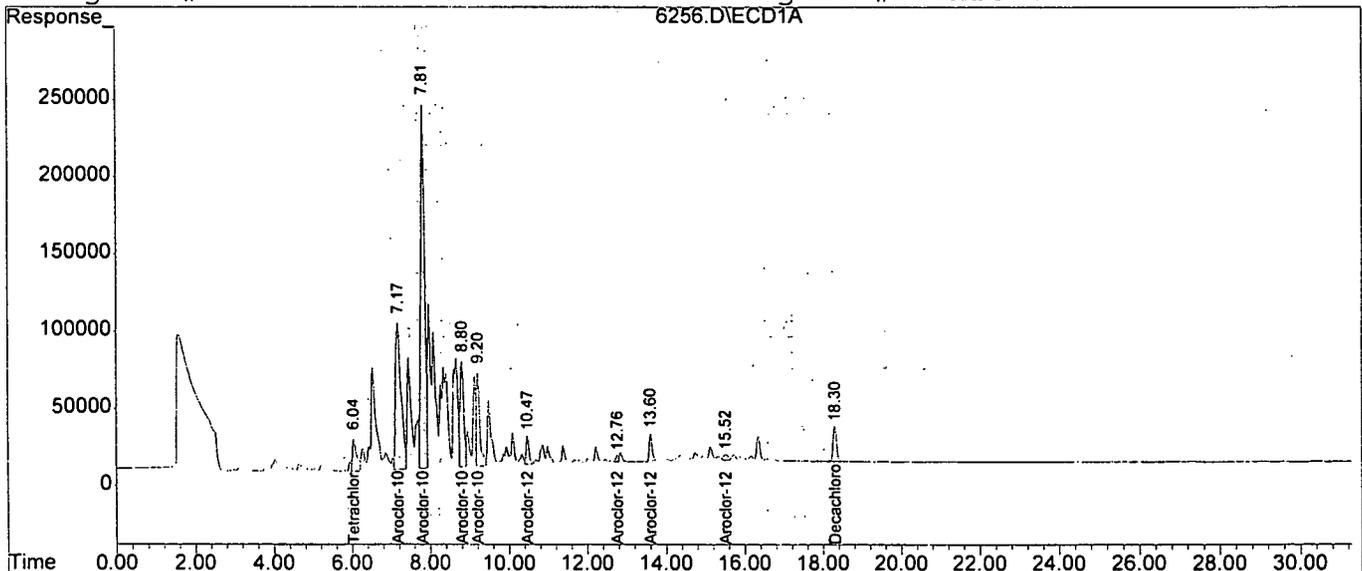
Data File : C:\HPCHEM\1\DATA\0711PCB\6256.D\ECD1A.CH Vial: 18  
Acq On : 11 Jul 2001 7:51 pm Operator: RSG  
Sample : C1F0263-18@5X Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6256.D\ECD2B.CH Vial: 18  
Acq On : 11 Jul 2001 8:27 pm Operator: RSG  
Sample : C1F0263-17@5X Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS2.E

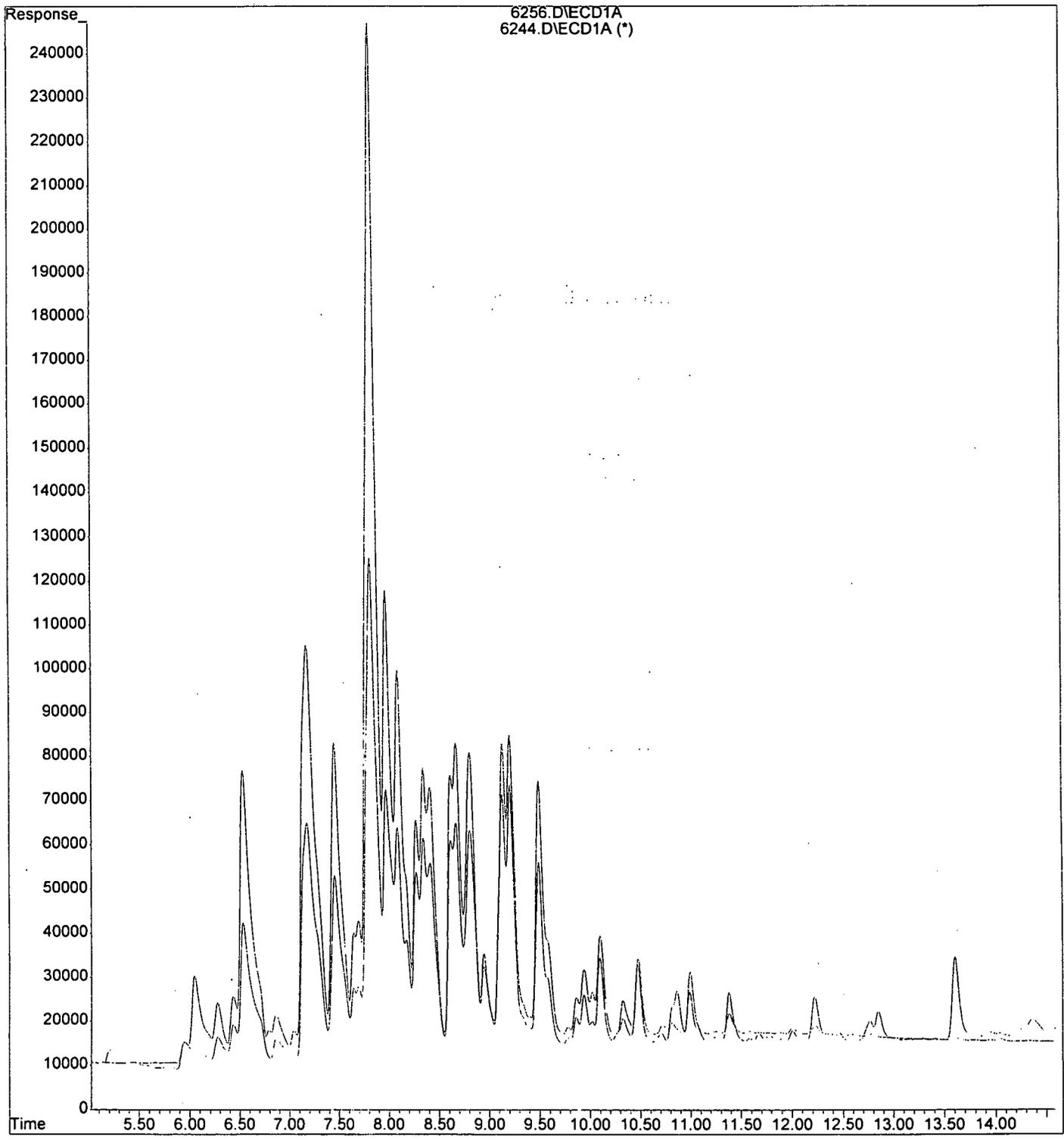
Quant Time: Jul 12 11:46 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Tue Jul 10 07:32:52 2001  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



File : C:\HPCHEM\1\DATA\0711PCB\6256.D  
Operator : RSG  
Acquired : 11 Jul 2001 7:51 pm using AcqMethod PCB0528.M  
Instrument : GC/MS Ins  
Sample Name: C1F0263-18@5X  
Misc Info :  
Vial Number: 18



Data File : C:\HPCHEM\1\DATA\0711PCB\6256.D\ECD1A.CH Vial: 18  
 Acq On : 11 Jul 2001 7:51 pm Operator: RSG  
 Sample : C1F0263-18@5X Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : events.e

Data File : C:\HPCHEM\1\DATA\0711PCB\6256.D\ECD2B.CH Vial: 18  
 Acq On : 11 Jul 2001 8:27 pm Operator: RSG  
 Sample : C1F0263-17@5X Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : events2.e  
 Quant Time: Jul 13 8:53 2001 Quant Results File: PCB1242.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB1242.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Mon Jul 09 10:34:47 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
----------	------	------	--------	--------	-------	-------

System Monitoring Compounds

1) S	Tetrachlorometax	0.00	6.54	0	699836	N.D.	1.774 #
6) S	Decachlorobiphen	17.21	25.45f	299180	22085	31.401	0.011 #

Target Compounds

2) L1	Aroclor-1242	6.53	7.15	5742049	415355	0.386	0.242 #
3) L1	Aroclor-1242 {2}	7.17	7.92	9379350	16214630	0.308	0.429 #
4) L1	Aroclor-1242 {3}	7.81	8.65	16248581	866170	0.354	0.299
5) L1	Aroclor-1242 {4}	9.49	9.65	3291262	670061	0.138	0.195 #
	Sum Aroclor-1242			34661242	18166216	1.186 ✓	1.165
	Average Aroclor-1242					0.297	0.291

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

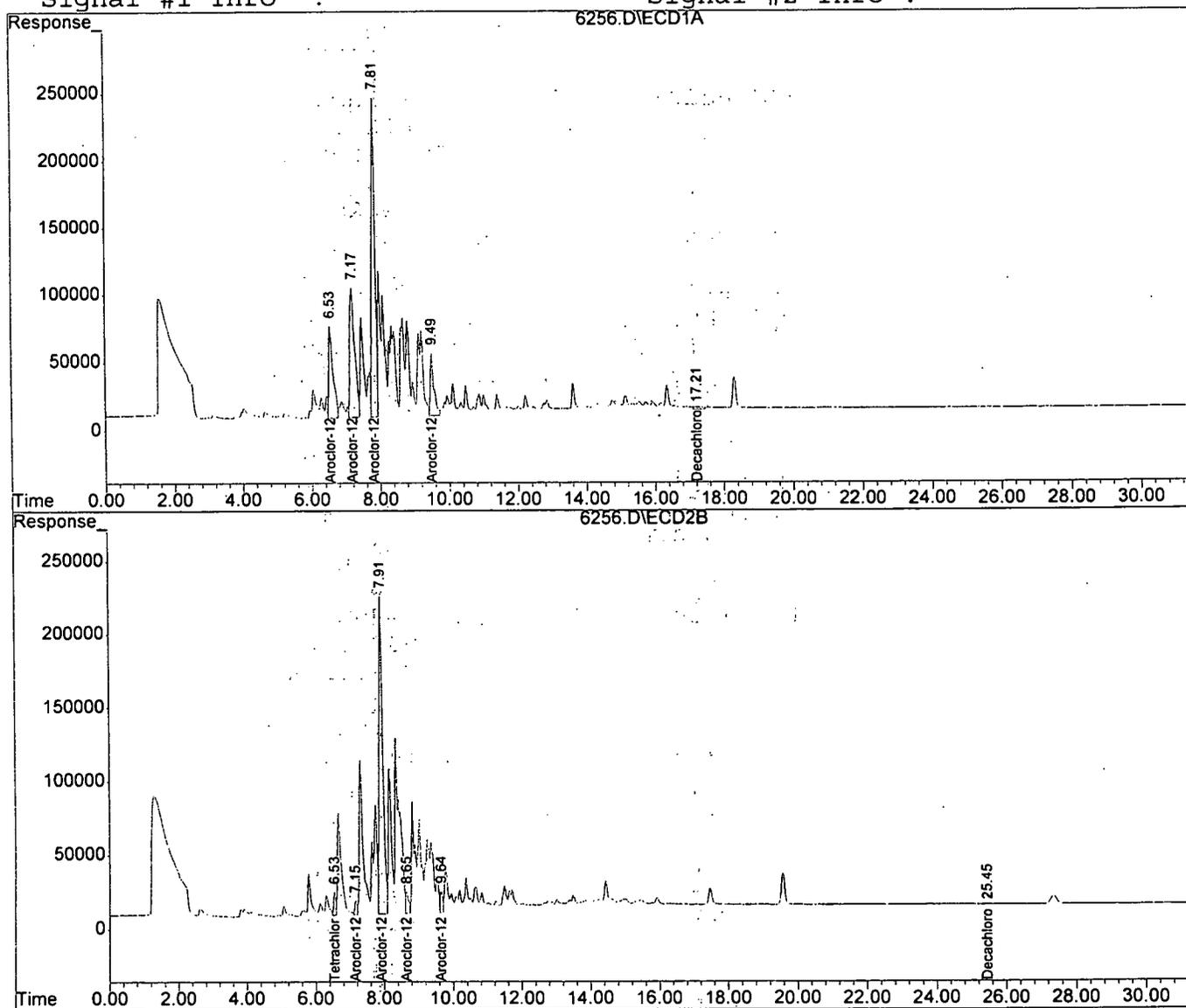
Data File : C:\HPCHEM\1\DATA\0711PCB\6256.D\ECD1A.CH Vial: 18  
Acq On : 11 Jul 2001 7:51 pm Operator: RSG  
Sample : C1F0263-18@5X Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : events.e

Data File : C:\HPCHEM\1\DATA\0711PCB\6256.D\ECD2B.CH Vial: 18  
Acq On : 11 Jul 2001 8:27 pm Operator: RSG  
Sample : C1F0263-17@5X Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : events2.e

Quant Time: Jul 13 8:53 2001 Quant Results File: PCB1242.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB1242.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Mon Jul 09 10:34:47 2001  
Response via : Single Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\0711PCB\6257.D\ECD1A.CH Vial: 2  
 Acq On : 11 Jul 2001 8:27 pm Operator: RSG  
 Sample : AMIX@1.0 15-23-C Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6257.D\ECD2B.CH Vial: 2  
 Acq On : 11 Jul 2001 9:03 pm Operator: RSG  
 Sample : C1F0263-18@5X Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E

Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 S Tetrachlorometaxylene	142.814	162.226 E6	-13.6	115	0.00
2 L1 Aroclor-1016	29.763	28.560 E6	4.0	112	0.00
3 L1 Aroclor-1016 {2}	44.583	41.820 E6	6.2	105	0.00
4 L1 Aroclor-1016 {3}	14.226	15.277 E6	-7.4	108	0.00
5 L1 Aroclor-1016 {4}	12.654	11.002 E6	13.1	93	-0.01
6 L2 Aroclor-1260	28.751	26.041 E6	9.4	105	0.00
7 L2 Aroclor-1260 {2}	38.185	39.545 E6	-3.6	113	0.00
L2 Aroclor-1260 {3}	20.803	21.558 E6	-3.6	113	0.00
L2 Aroclor-1260 {4}	9.019	9.613 E6	-6.6	113	0.00
10 S Decachlorobiphenyl	94.019	91.513 E6	2.7	114	-0.01

Signal #2

1 S Tetrachlorometaxylene	124.893	108.497 E6	13.1	86	0.00
2 L1 Aroclor-1016	11.804	11.216 E6	5.0	93	0.00
3 L1 Aroclor-1016 {2}	24.867	21.237 E6	14.6	93	0.00
4 L1 Aroclor-1016 {3}	19.679	14.915 E6	24.2#	87	0.00
5 L1 Aroclor-1016 {4}	10.503	10.147 E6	3.4	107	0.00
6 L2 Aroclor-1260	27.252	25.299 E6	7.2	109	0.00
7 L2 Aroclor-1260 {2}	11.054	19.478 E6	-76.2#	185#	0.00
8 L2 Aroclor-1260 {3}	39.091	38.751 E6	0.9	114	0.00
9 L2 Aroclor-1260 {4}	28.079	30.230 E6	-7.7	116	0.00
10 S Decachlorobiphenyl	92.172	95.391 E6	-3.5	121	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\0711PCB\6257.D\ECD1A.CH Vial: 2  
 Acq On : 11 Jul 2001 8:27 pm Operator: RSG  
 Sample : AMIX@1.0 15-23-C Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS:E

Data File : C:\HPCHEM\1\DATA\0711PCB\6257.D\ECD2B.CH Vial: 2  
 Acq On : 11 Jul 2001 9:03 pm Operator: RSG  
 Sample : C1F0263-18@5X Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E

Quant Time: Jul 12 10:54 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
<b>System Monitoring Compounds</b>						
1) S Tetrachlorometax	6.05	5.79	16222628	10849713	0.114	0.087
Spiked Amount	0.050		Recovery	=	228.00%	174.00%
1 S Decachlorobiphen	18.30	19.57	9151318	9539134	0.097	0.103
iked Amount	0.050		Recovery	=	194.00%	206.00%
<b>Target Compounds</b>						
2) L1 Aroclor-1016	7.17	6.67	7140002	2803976	0.240	0.238
3) L1 Aroclor-1016 {2}	7.81	7.30	10454902	5309128	0.235	0.214
4) L1 Aroclor-1016 {3}	8.81	8.17	3819289	3728759	0.268	0.189 #
5) L1 Aroclor-1016 {4}	9.22	9.42	2750485	2536844	0.217	0.242
Sum Aroclor-1016			24164678	14378707	0.960	0.882
Average Aroclor-1016					0.240	0.221
6) L2 Aroclor-1260	10.46	10.65	6510340	6324745	0.226	0.232
7) L2 Aroclor-1260 {2}	12.77	11.24	9886150	4869397	0.259	0.441 #
8) L2 Aroclor-1260 {3}	13.61	13.02	5389494	9687699	0.259	0.248
9) L2 Aroclor-1260 {4}	15.47	14.41	2403253	7557379	0.266	0.269
Sum Aroclor-1260			24189237	28439221	1.011	1.190
Average Aroclor-1260					0.253	0.297

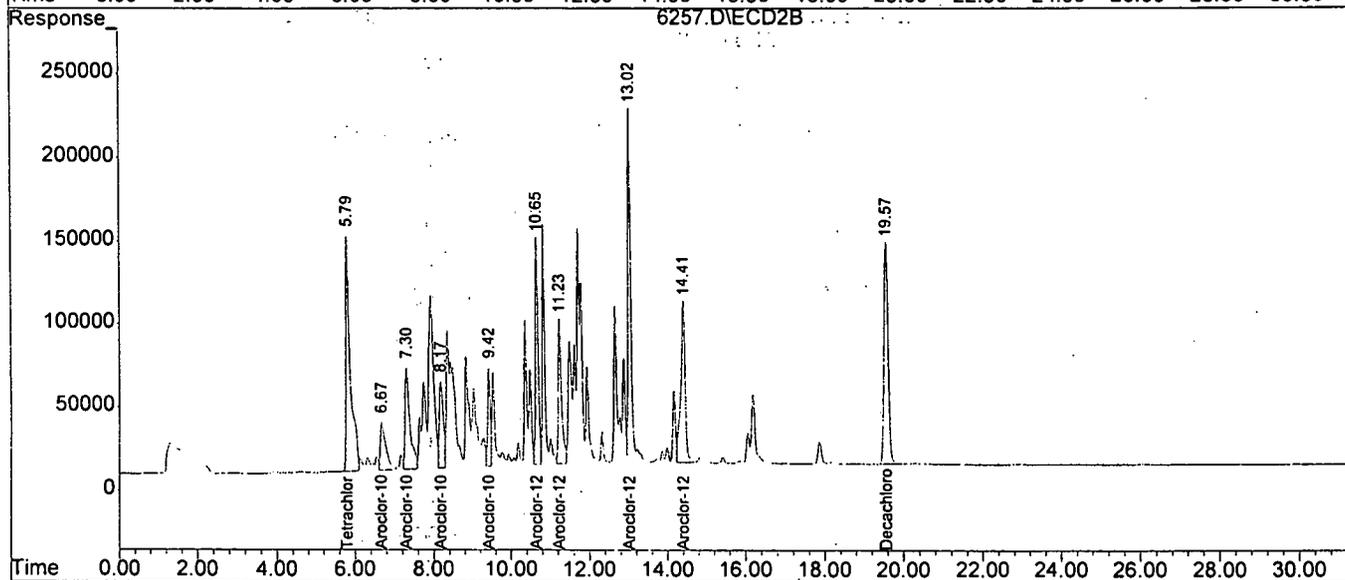
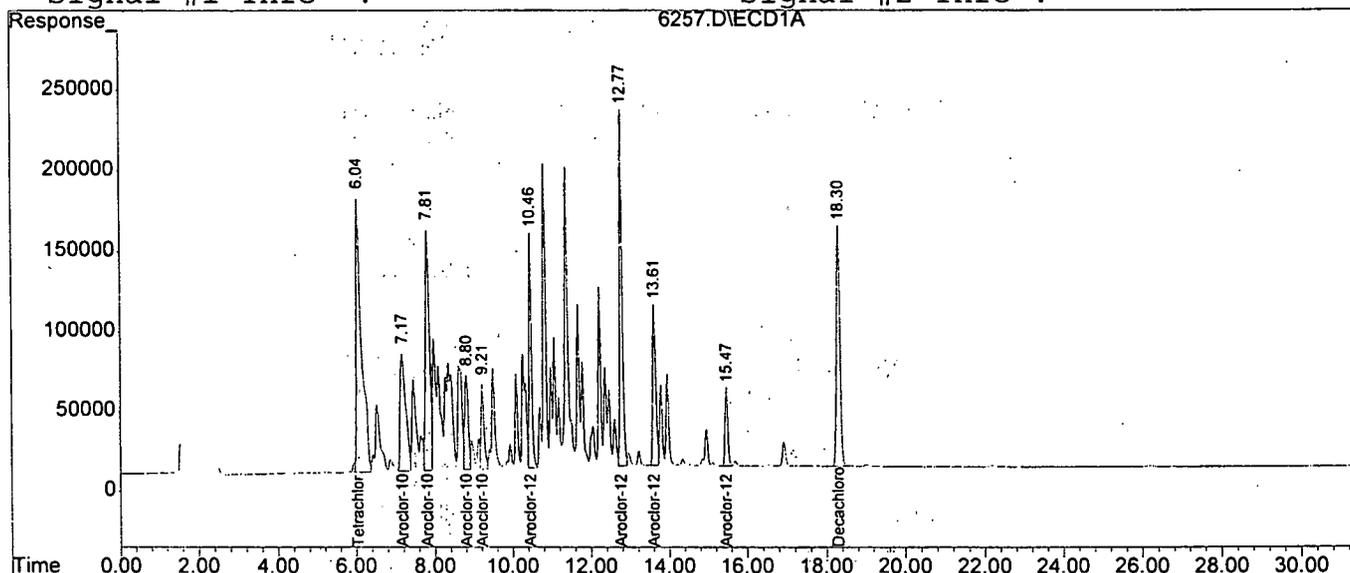
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0711PCB\6257.D\ECD1A.CH Vial: 2  
Acq On : 11 Jul 2001 8:27 pm Operator: RSG  
Sample : AMIX@1.0 15-23-C Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6257.D\ECD2B.CH Vial: 2  
Acq On : 11 Jul 2001 9:03 pm Operator: RSG  
Sample : C1F0263-18@5X Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS2.E  
Quant Time: Jul 12 10:54 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Tue Jul 10 07:32:52 2001  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\0711PCB\6258.D\ECD1A.CH Vial: 3  
 Acq On : 11 Jul 2001 9:03 pm Operator: RSG  
 Sample : AMIX@0.5 15-23-D Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6258.D\ECD2B.CH Vial: 3  
 Acq On : 11 Jul 2001 9:39 pm Operator: RSG  
 Sample : AMIX@1.0 15-23-C Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E

Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 S Tetrachlorometaxylene	142.814	152.076 E6	-6.5	104	0.00
2 L1 Aroclor-1016	29.763	29.442 E6	1.1	104	0.00
3 L1 Aroclor-1016 {2}	44.583	43.277 E6	2.9	101	0.00
4 L1 Aroclor-1016 {3}	14.226	14.917 E6	-4.9	102	0.00
5 L1 Aroclor-1016 {4}	12.654	10.941 E6	13.5	90	0.00
6 L2 Aroclor-1260	28.751	26.793 E6	6.8	99	0.00
7 L2 Aroclor-1260 {2}	38.185	38.308 E6	-0.3	110	0.00
L2 Aroclor-1260 {3}	20.803	20.637 E6	0.8	105	0.00
L2 Aroclor-1260 {4}	9.019	8.918 E6	1.1	107	0.00
10 S Decachlorobiphenyl	94.019	91.187 E6	3.0	107	-0.01

Signal #2

1 S Tetrachlorometaxylene	124.893	128.076 E6	-2.5	96	0.00
2 L1 Aroclor-1016	11.804	13.581 E6	-15.1#	110	0.00
3 L1 Aroclor-1016 {2}	24.867	25.743 E6	-3.5	103	0.00
4 L1 Aroclor-1016 {3}	19.679	18.253 E6	7.2	94	0.00
5 L1 Aroclor-1016 {4}	10.503	12.424 E6	-18.3#	110	0.00
6 L2 Aroclor-1260	27.252	29.723 E6	-9.1	107	0.00
7 L2 Aroclor-1260 {2}	11.054	17.942 E6	-62.3#	145	0.00
8 L2 Aroclor-1260 {3}	39.091	42.133 E6	-7.8	106	0.00
9 L2 Aroclor-1260 {4}	28.079	31.615 E6	-12.6	107	0.00
10 S Decachlorobiphenyl	92.172	101.697 E6	-10.3	106	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data File : C:\HPCHEM\1\DATA\0711PCB\6258.D\ECD1A.CH Vial: 3  
 Acq On : 11 Jul 2001 9:03 pm Operator: RSG  
 Sample : AMIX@0.5 15-23-D Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6258.D\ECD2B.CH Vial: 3  
 Acq On : 11 Jul 2001 9:39 pm Operator: RSG  
 Sample : AMIX@1.0 15-23-C Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E  
 Quant Time: Jul 12 10:59 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
 Title : PCB's, Aroclors 1016 &1260 by method 8082  
 Last Update : Tue Jul 10 07:32:52 2001  
 Response via : Initial Calibration  
 DataAcq Meth : PCB0528.M

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/mL	ug/mL
-----						
System Monitoring Compounds						
1) S Tetrachlorometax	6.05	5.79	7603795	6403817	0.053	0.051
Spiked Amount	0.050		Recovery	=	106.00%	102.00%
S Decachlorobiphen	18.30	19.57	4559352	5084845	0.048	0.055
Spiked Amount	0.050		Recovery	=	96.00%	110.00%
Target Compounds						
2) L1 Aroclor-1016	7.18	6.67	3680256	1697604	0.124	0.144
3) L1 Aroclor-1016 {2}	7.82	7.31	5409662	3217826	0.121	0.129
4) L1 Aroclor-1016 {3}	8.81	8.18	1864575	2281673	0.131	0.116
5) L1 Aroclor-1016 {4}	9.22	9.42	1367580	1553002	0.108	0.148 #
Sum Aroclor-1016			12322072	8750105	0.484	0.537
Average Aroclor-1016					0.121	0.134
6) L2 Aroclor-1260	10.46	10.66	3349143	3715333	0.116	0.136
7) L2 Aroclor-1260 {2}	12.77	11.24	4788516	2242742	0.125	0.203 #
8) L2 Aroclor-1260 {3}	13.61	13.02	2579570	5266649	0.124	0.135
9) L2 Aroclor-1260 {4}	15.47	14.41	1114775	3951917	0.124	0.141
Sum Aroclor-1260			11832006	15176641	0.489	0.615
Average Aroclor-1260					0.122	0.154

-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

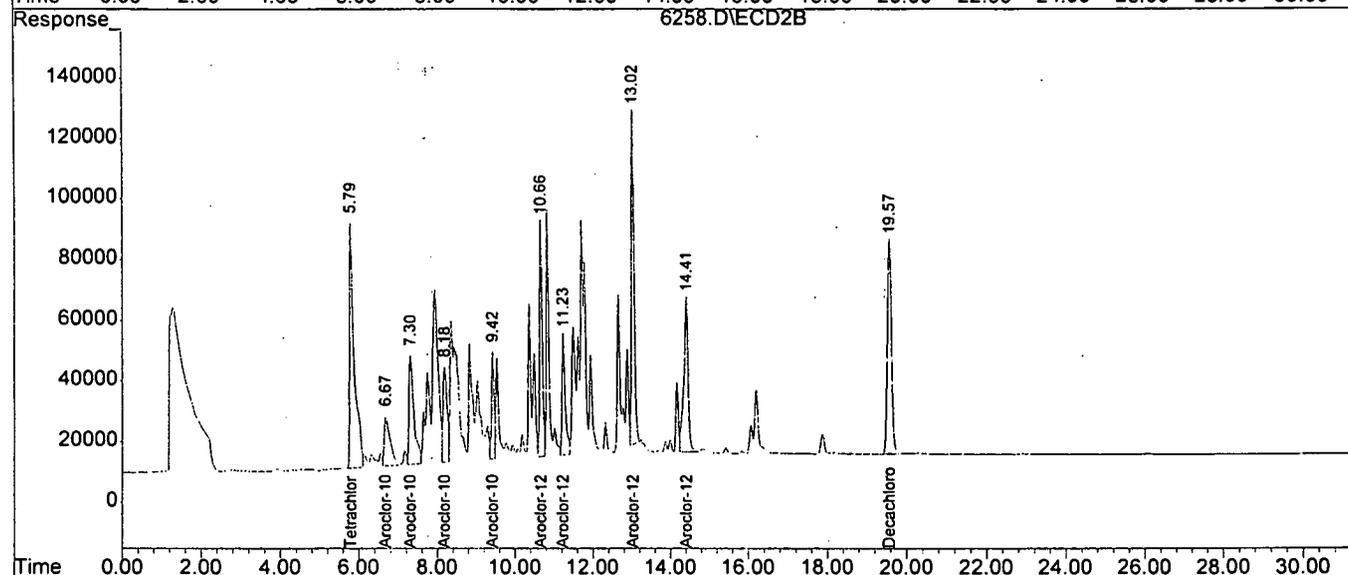
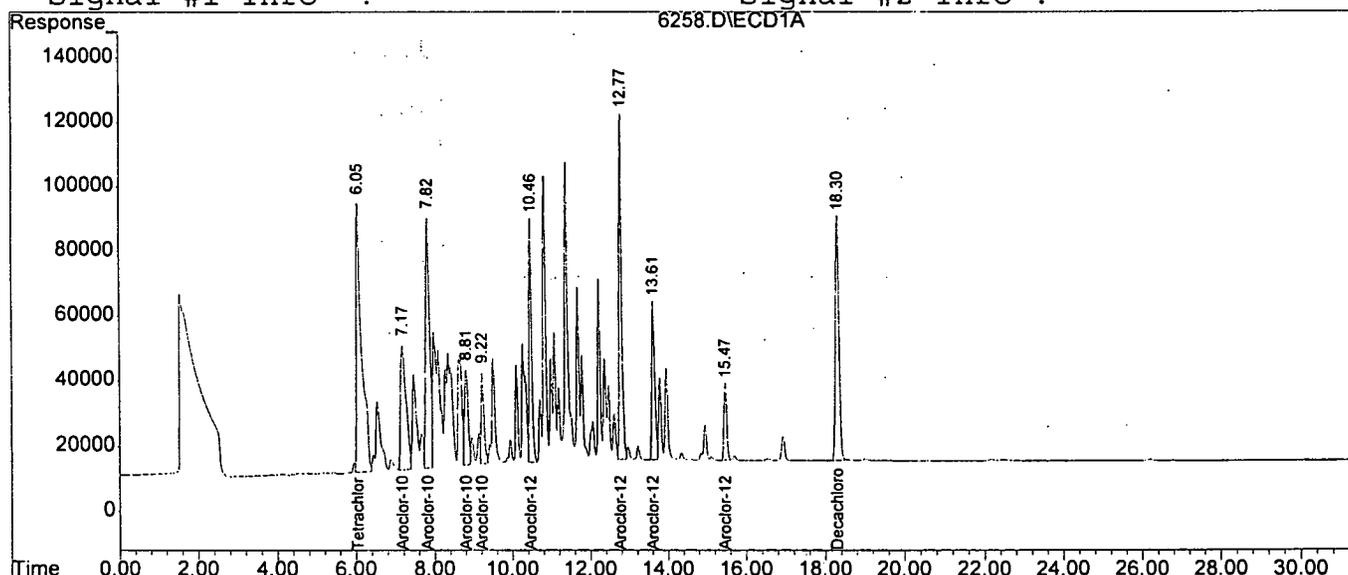
Quantitation Report

Data File : C:\HPCHEM\1\DATA\0711PCB\6258.D\ECD1A.CH Vial: 3  
Acq On : 11 Jul 2001 9:03 pm Operator: RSG  
Sample : AMIX@0.5 15-23-D Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS.E

Data File : C:\HPCHEM\1\DATA\0711PCB\6258.D\ECD2B.CH Vial: 3  
Acq On : 11 Jul 2001 9:39 pm Operator: RSG  
Sample : AMIX@1.0 15-23-C Inst : GC/MS Ins  
Misc : Multiplr: 1.00  
IntFile : EVENTS2.E  
Quant Time: Jul 12 10:59 2001 Quant Results File: PCB0709.RES

Quant Method : C:\HPCHEM\1\METHODS\PCB0709.M (Chemstation Integrator)  
Title : PCB's, Aroclors 1016 &1260 by method 8082  
Last Update : Tue Jul 10 07:32:52 2001  
Response via : Multiple Level Calibration  
DataAcq Meth : PCB0528.M

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



# Injection Log

Directory: d:\hpcchem\1\data\070501v

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1		0101001.d	1.	50.0ppb 8260MI STD B5P53L1		5 Jul 01 08:52
2	2	0201002.d	1.	50.0ppb 8260MI STD B5P53L1		5 Jul 01 09:30
3	3	0301003.d	1.	SYSTEM BLANK 5mL		5 Jul 01 10:09
4	4	0401004.d	1.	20.0ppb 8260MI LCS STD B5P49L2		5 Jul 01 10:47
5	5	0501005.d	1.	C1F0245-01 DuPONT 5mL		5 Jul 01 11:27
6	6	0601006.d	1.	C1F0263-19 OEPA 5mL		5 Jul 01 12:05
7	7	0701007.d	1.	C1F0264-01 GLCT 5mL/1mL		5 Jul 01 12:43
8	18	070501b.d	1.	50ng BFB TUNE STD B5P26L2		5 Jul 01 08:34
9	8	0801008.d	1.	C1F0264-02 GLCT 5mL		5 Jul 01 13:22
10	9	0901009.d	1.	C1F0264-03 GLCT 5mL		5 Jul 01 14:00
11		1001010.d	1.			
12	11	1101001.d	1.	c1g0012-01S1 Hastings 5ml + 50pp		5 Jul 01 15:19
13	12	1201002.d	1.	c1g0012-01S2 Hastings 5ml + 50pp		5 Jul 01 15:57
14	13	1301003.d	1.	c1g0012-02 Hastings 5ml		5 Jul 01 16:36
15	14	1401004.d	1.	c1f0266-02 Coleman 5ml		5 Jul 01 17:15
16	15	1501005.d	1.	c1f0266-01 Coleman 0.5ml		5 Jul 01 17:54
17	16	1601006.d	1.	c1g0011-01 25ul		5 Jul 01 18:34
18	17	1701007.d	1.	c1g0011-02 25ul		5 Jul 01 19:13
19	18	1801008.d	1.	c1g0011-03 25ul		5 Jul 01 19:52

CG11319



GC/MS QA-QC Check Report

Tune File : D:\HPCHEM\1\DATA\070501V\070501B.D

Tune Time : 5 Jul 2001 8:34

D Calibration File : D:\HPCHEM\1\DATA\070501V\0201002.D

1853750 3198160 2956110

1663990

File	Sample	Surrogate Recovery %				Internal Standard Responses		
=====								
0301003.D	tSYSTEM B	97	103	99	95	1831289	3095886	2893585
		1593812						
-----								
0401004.D	t20.0ppb	102	104	101	96	1793208	3129516	2941553
		1636404						
-----								
0501005.D	tC1F0245-	105	107	100	96	1826944	3145262	2954938
		1632737						
-----								
0601006.D	tC1F0263-	101	110	103	97	1736285	2963909	2862966
		1607770						
-----								
0701007.D	tC1F0264-	102	107	98	97	1722590	3037444	2815600
		1598443						
-----								
0801008.D	tC1F0264-	104	109	98	97	1687002	2970745	2808302
		1590573						
-----								
0901009.D	tC1F0264-	106	104	103	97	1603133	2776344	2723369
		1526985						
-----								
1101001.D	tc1g0012-	104	105	100	98	1704598	2965697	2791952
		1602898						
-----								
1201002.D	tc1g0012-	99	107	102	97	1768298	2987201	2849129
		1602435						
-----								
1301003.D	tc1g0012-	103	107	98	97	1686071	2818123	2636721
		1492830						
-----								
1401004.D	tc1f0266-	100	109	99	99	1663412	2786367	2581335
		1453961						
-----								
1501005.D	tc1f0266-	101	106	98	100	1536931	2737572	2559775
		1449494						
-----								
1601006.D	clg0011-	98	103	101	95	1699198	2868525	2642056
		1430295						
-----								
1701007.D	clg0011-	100	106	100	95	1592795	2750469	2532406
		1343832						



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1801008.D, clg0011- 99 109 100 98 1562946 2697415 2550632  
1437835  
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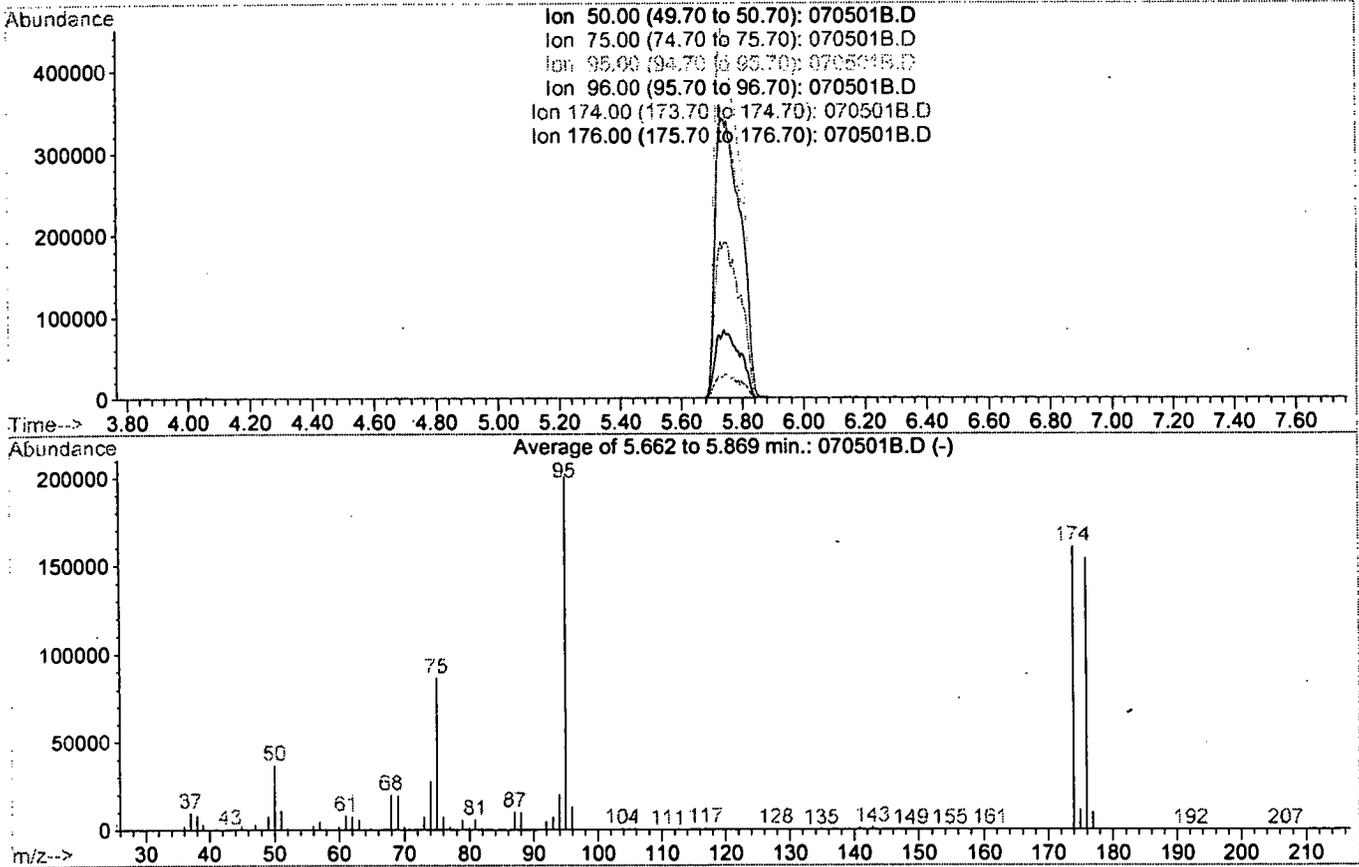
t - fails 12hr time check \* - fails criteria

Created: Fri Jul 06 14:38:36 2001 GC  
MS Ins

BFB

Data File : D:\HPCHEM\1\DATA\070501V\070501B.D  
 Acq On : 5 Jul 2001 8:34  
 Sample : 50ng BFB TUNE STD B5P26L2  
 Misc :  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260

Vial: 18  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00



Spectrum Information: Average of 5.662 to 5.869 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	36544	PASS
75	95	30	60	43.0	86365	PASS
95	95	100	100	100.0	200790	PASS
96	95	5	9	6.5	13067	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	79.9	160347	PASS
175	174	5	9	7.1	11313	PASS
176	174	95	101	95.8	153645	PASS
177	176	5	9	6.5	9997	PASS

Data File : D:\HPCHEM\1\DATA\070501V\0101001.D  
 Acq On : 5 Jul 2001 8:52  
 Sample : 50.0ppb 8260MI STD B5P53L1  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Jul 6 14:24 19101

Vial: 1  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Wed Jul 04 08:56:19 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	7.26	168	1980792	50.00	ug/L	0.03
33) 1,4-Difluorobenzene IS#2	8.61	114	3372397	50.00	ug/L	0.03
53) d5-Chlorobenzene IS#3	14.64	117	3083969	50.00	ug/L	0.03
74) d4-1,4-Dichlorobenzene	20.07	152	1730626	50.00	ug/L	0.02

System Monitoring Compounds

2) Dibromofluoromethane Surr	7.13	113	1238565	45.21	ug/L	0.02
Spiked Amount	50.000	Range	79 - 120	Recovery	=	90.42%
34) d4-1,2-Dichloroethane Sur	7.72	102	284907	51.40	ug/L	0.03
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.80%
35) d8-Toluene Surr#2	11.54	98	3707583	47.43	ug/L	0.02
Spiked Amount	50.000	Range	85 - 114	Recovery	=	94.86%
54) Bromofluorobenzene Surr#3	17.35	95	1521151	46.06	ug/L	0.02
Spiked Amount	50.000	Range	82 - 113	Recovery	=	92.12%

Target Compounds

					Qvalue
3) Dichlorodifluoromethane	1.67	85	1331410	48.03	ug/L 99
4) 2-Nitropropane	10.54	43	669472	39.12	ug/L 97
5) Chloromethane	1.86	50	1436961	44.35	ug/L 99
6) Vinyl Chloride	1.97	62	1072367	46.74	ug/L 97
7) Bromomethane	2.31	94	275287	39.75	ug/L 98
8) Chloroethane	2.43	64	381911	54.33	ug/L 93
9) Trichlorofluoromethane	2.72	101	1391676	52.93	ug/L 98
10) Diethyl ether	3.09	74	425586	49.13	ug/L 96
11) Acrolein	3.25	56	430171	72.93	ug/L # 94
12) Acetone	3.46	58	172440	30.56	ug/L 81
13) 1,1-Dichloroethene	3.38	96	761572	50.41	ug/L 96
14) Iodomethane	3.57	142	746084	52.74	ug/L 97
15) Allyl chloride (3-chloro-1	3.89	39	809785	46.52	ug/L 98
16) Methylene chloride	4.08	84	875847	46.56	ug/L 97
17) Carbon disulfide	3.66	76	2658123	48.31	ug/L 100
18) Acrylonitrile	4.48	53	651739	38.93	ug/L 99
19) 2-Methoxy-2-methylpropane	4.55	73	2448789	44.93	ug/L 97
20) Hexane	4.99	57	1388185	46.13	ug/L 95

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\070501V\0101001.D

Vial: 1

Acq On : 5 Jul 2001 8:52

Operator: DRB

Sample : 50.0ppb 8260MI STD B5P53L1

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 6 14:24 19101

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)

Title : Volatile Organics by EPA 8260

Last Update : Wed Jul 04 08:56:19 2001

Response via : Initial Calibration

DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
21) trans-1,2-Dichloroethene	4.52	96	844741	47.86	ug/L	97
22) 1,1-Dichloroethane	5.22	63	1911423	46.57	ug/L	97
23) Vinyl acetate	5.35	43	2859480	40.99	ug/L	97
24) Methyl ethyl ketone	6.29	72	328997	34.36	ug/L	92
25) Propionitrile (Propanenit	6.38	54	360828	32.35	ug/L #	90
26) 2,2-Dichloropropane	6.22	77	1375048	48.89	ug/L	94
27) cis-1,2-Dichloroethene	6.24	96	1225465	46.18	ug/L	94
28) Methyl acrylate	6.49	55	1914619	40.86	ug/L	99
29) Methacrylonitrile	6.64	41	1215298	39.90	ug/L	95
30) 1-Chlorobutane	7.34	56	2054686	45.30	ug/L #	93
31) Bromochloromethane	6.66	128	636096	47.26	ug/L	95
32) Chloroform	6.84	83	2042991	46.40	ug/L	96
36) Tetrahydrofuran	6.76	72	364875	37.52	ug/L	94
37) 1,1,1-Trichloroethane	7.12	97	1528105	47.18	ug/L #	90
38) 1,1-Dichloropropene	7.44	75	1501499	47.02	ug/L	98
39) Carbon tetrachloride	7.43	117	1267616	46.04	ug/L	100
40) Benzene	7.81	78	4013133	46.78	ug/L	100
41) 1,2-Dichloroethane	7.87	62	1546921	47.40	ug/L	97
42) Trichloroethene	9.08	95	1228110	47.94	ug/L	97
43) 1,2-Dichloropropane	9.49	63	1110898	46.91	ug/L	100
44) Methyl methacrylate	9.84	69	1222659	45.10	ug/L	96
45) Chloroacetonitrile	11.01	75	1757703	48.00	ug/L	99
46) Bromodichloromethane	10.10	83	1390393	47.29	ug/L	99
47) 1,4-Dioxane	9.82	88	423875m	352.91	ug/L	
48) Dibromomethane	9.73	93	914162	47.12	ug/L	94
49) 2-Chloroethyl vinyl ether	10.76	63	108582	51.79	ug/L #	86
50) 4-Methyl-2-pentanone	11.37	100	293665	40.29	ug/L	71
51) 1,1-Dichloro-2-propanone	11.36	43	3991630	38.70	ug/L	99
52) cis-1,3-Dichloropropene	11.01	75	1757703	48.00	ug/L	99
55) Toluene	11.67	92	2516621	47.85	ug/L	95
56) Ethyl methacrylate	12.47	69	1812366	47.61	ug/L #	89
57) trans-1,3-Dichloropropene	12.20	75	1631668	49.29	ug/L	97
58) 1,1,2-Trichloroethane	12.57	83	1015265	47.98	ug/L	98
59) 2-Hexanone	13.16	43	2122922	38.16	ug/L	99

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\070501V\0101001.D

Vial: 1

Acq On : 5 Jul 2001 8:52

Operator: DRB

Sample : 50.0ppb 8260MI STD B5P53L1

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 6 14:24 19101

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)

Title : Volatile Organics by EPA 8260

Last Update : Wed Jul 04 08:56:19 2001

Response via : Initial Calibration

DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
60) 1,3-Dichloropropane	12.91	76	2012586	48.86	ug/L	98
61) Tetrachloroethene	12.84	164	1163455	50.71	ug/L	97
62) Chlorodibromomethane	13.39	129	1247058	47.84	ug/L	97
63) Ethylene dibromide	13.58	107	1386468	47.53	ug/L	99
64) Chlorobenzene	14.70	112	2959695	47.99	ug/L	97
65) Ethylbenzene	14.99	91	5054825	48.50	ug/L	99
66) 1,1,1,2-Tetrachloroethane	14.92	131	1034055	47.97	ug/L	92
67) p,m-Xylenes	15.27	106	3690867	94.56	ug/L	98
68) o-Xylene	16.15	106	1812980	47.09	ug/L	100
69) Styrene	16.20	104	3280796	48.65	ug/L	99
70) Isopropylbenzene	17.04	105	4927495	48.66	ug/L	97
71) Bromoform	16.57	173	1080898	50.41	ug/L	99
72) 1,1,2,2-Tetrachloroethane	17.78	83	2266928	47.39	ug/L	100
73) 1,2,3-Trichloropropane	17.81	75	1798500	46.00	ug/L	98
75) Propylbenzene	18.00	91	6403606	49.16	ug/L	100
76) Bromobenzene	17.65	156	1322502	46.27	ug/L	95
77) 1,4-trans-Dichloro-2-buten	17.91	53	476050	46.03	ug/L #	78
78) 2-Chlorotoluene	18.14	91	3781874	46.61	ug/L	99
79) 1,3,5-Trimethylbenzene	18.44	105	4084808	46.58	ug/L	100
80) 4-Chlorotoluene	18.41	91	4275606	47.48	ug/L	98
81) tert-Butylbenzene	19.19	119	3927769	46.92	ug/L	97
82) Pentachloroethane	21.59	166	408382	47.12	ug/L #	93
83) 1,2,4-Trimethylbenzene	19.31	105	4187701	45.96	ug/L	98
84) sec-Butylbenzenz	19.72	105	5659066	48.17	ug/L	99
85) p-Isopropyltoluene	20.09	119	4656681	48.36	ug/L	99
86) 1,3-Dichlorobenzene	19.90	146	2334872	45.87	ug/L	98
87) 1,4-Dichlorobenzene	20.13	146	2594810	46.44	ug/L	99
88) n-Butylbenzene	21.07	91	4947184	48.20	ug/L	98
89) 1,2-Dichlorobenzene	20.99	146	2448079	46.05	ug/L	98
90) Hexachloroethane	21.59	201	649730	51.93	ug/L	97
91) 1,2-Dibromo-3-chloropropan	22.87	75	576689	38.12	ug/L	92
92) Nitrobenzene	23.35	123	120684	35.47	ug/L	88
93) 1,2,4-Trichlorobenzene	24.90	180	1937001	45.44	ug/L	98
94) Hexachlorobutadiene	25.39	225	938184	46.73	ug/L	97

(#)= qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\070501V\0101001.D Vial: 1  
 Acq On : 5 Jul 2001 8:52 Operator: DRB  
 Sample : 50.0ppb 8260MI STD B5P53L1 Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 6 14:24 19101 Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Wed Jul 04 08:56:19 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	25.45	128	6440206	46.87 ug/L	100
96) 1,2,3-Trichlorobenzene	26.06	180	1891331	45.37 ug/L	99
97) 2-Methyl-naphthalene	28.21	142	2077466	48.34 ug/L	98



-----  
 (#) = qualifier out of range (m) = manual integration

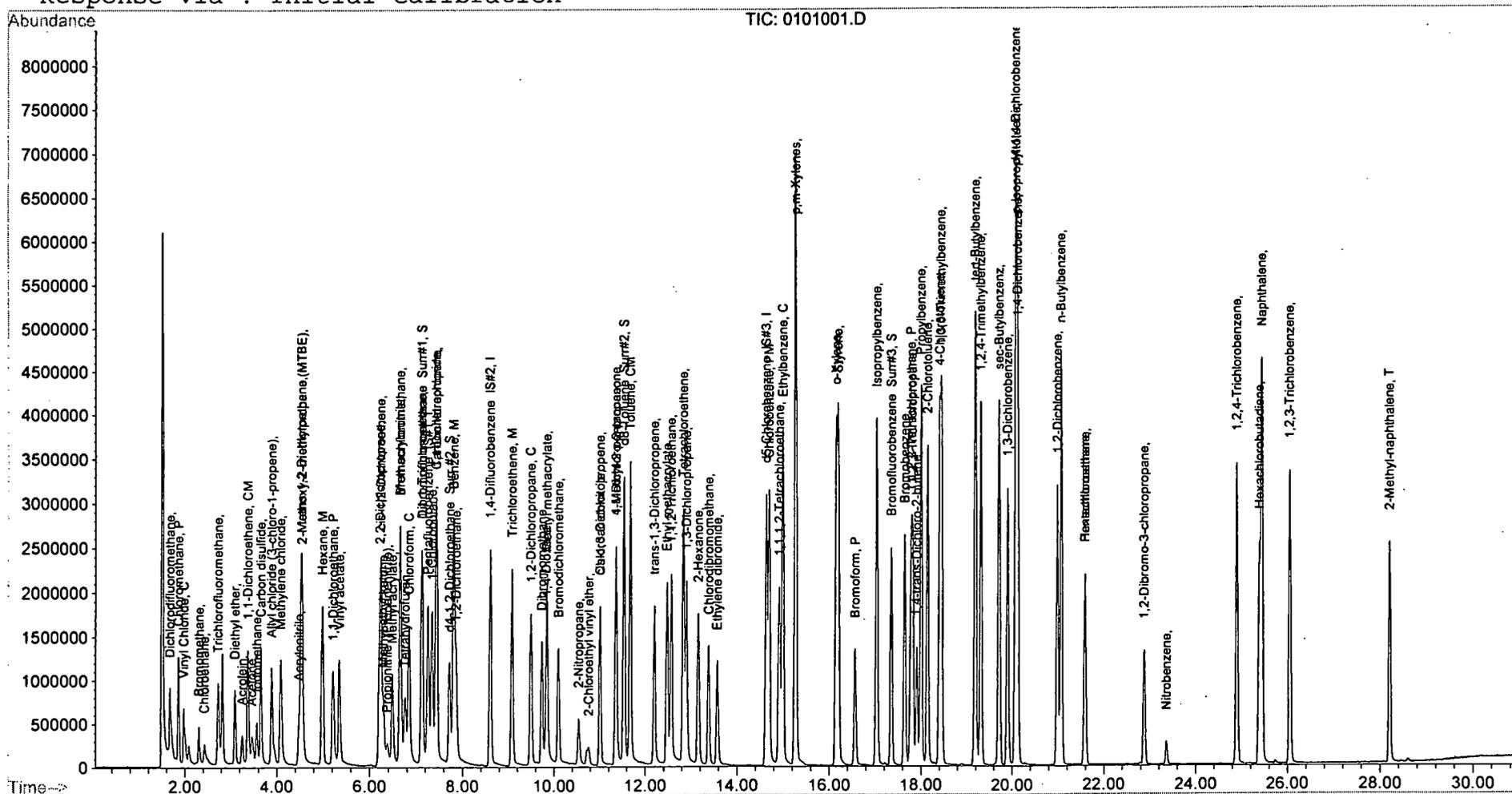
Quantitation Report

Data file : D:\HPCHEM\1\DATA\070501V\0101001.D  
 Acq On : 5 Jul 2001 8:52  
 Sample : 50.0ppb 8260MI STD B5P53L1  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Jul 6 14:24 19101

Vial: 1  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Thu Jul 05 10:30:44 2001  
 Response via : Initial Calibration



Continuing Calibration Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Thu Jul 05 10:30:44 2001  
 Response via : Initial Calibration

Continuing Calibration File: 0201002.D

Min. RRF : 0.010 Min. Rel. Area : 50%  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%
1 I	Pentafluorobenzene IS#1	1.000	1.000	0.0	89
2 S	Dibromofluoromethane Surr#1	0.691	0.637	7.9	82
3	Dichlorodifluoromethane	0.700	0.675	3.5	84
4	2-Nitropropane	0.432	0.481	-11.4	102
5 P	Chloromethane	0.818	0.771	5.7	92
6 C	Vinyl Chloride	0.579	0.571	1.4	90
7	Bromomethane	0.175	0.137	21.6	73
8	Chloroethane	0.177	0.147	17.0	69
9	Trichlorofluoromethane	0.664	0.617	7.0	76
10	Diethyl ether	0.219	0.225	-2.9	86
11	Acrolein	0.149	0.158	-6.3	97
12	Acetone	0.142	0.151	-5.7	115
13 CM	1,1-Dichloroethene	0.381	0.387	-1.4	87
14	Iodomethane	0.357	0.335	6.3	70
15	Allyl chloride (3-chloro-1-pr	0.439	0.412	6.3	84
16	Methylene chloride	0.475	0.439	7.7	85
17	Carbon disulfide	1.389	1.288	7.2	80
18	Acrylonitrile	0.423	0.476	-12.7	106
19	2-Methoxy-2-methylpropane (MT	1.376	1.298	5.6	83
20 M	Hexane	0.760	0.717	5.7	83
21	trans-1,2-Dichloroethene	0.446	0.431	3.2	85
22 P	1,1-Dichloroethane	1.036	1.007	2.8	87
23	Vinyl acetate	1.761	1.776	-0.8	89
24	Methyl ethyl ketone	0.242	0.266	-10.2	109
25	Propionitrile (Propanenitril	0.282	0.374	-32.8#	137
26	2,2-Dichloropropane	0.710	0.699	1.5	87
27	cis-1,2-Dichloroethene	0.670	0.640	4.5	83
28	Methyl acrylate	1.183	1.204	-1.8	94
29	Methacrylonitrile	0.769	0.768	0.0	92
30	1-Chlorobutane	1.145	1.045	8.8	83
31	Bromochloromethane	0.340	0.333	2.1	84
32 C	Chloroform	1.111	1.068	3.9	85
33 I	1,4-Difluorobenzene IS#2	1.000	1.000	0.0	89
34 S	d4-1,2-Dichloroethane Surr #	0.082	0.084	-2.3	87
35 S	d8-Toluene Surr#2	1.159	1.123	3.1	85

(#) = Out of Range



## Continuing Calibration Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Thu Jul 05 10:30:44 2001  
 Response via : Initial Calibration

Continuing Calibration File: 0201002.D

Min. RRF : 0.010 Min. Rel. Area : 50%  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%
36	Tetrahydrofuran	0.144	0.172	-19.3	120
37	1,1,1-Trichloroethane	0.480	0.459	4.5	80
38	1,1-Dichloropropene	0.473	0.439	7.3	82
39	Carbon tetrachloride	0.408	0.360	11.7	81
40 M	Benzene	1.272	1.215	4.5	84
41	1,2-Dichloroethane	0.484	0.479	1.1	85
42 M	Trichloroethene	0.380	0.385	-1.3	87
43 C	1,2-Dichloropropane	0.351	0.335	4.5	82
44	Methyl methacrylate	0.402	0.408	-1.5	88
45	Chloroacetonitrile	0.543	0.517	4.7	82
46	Bromodichloromethane	0.436	0.408	6.5	82
47	1,4-Dioxane	0.018	0.021	-19.1	111
48	Dibromomethane	0.288	0.278	3.4	84
49	2-Chloroethyl vinyl ether	0.031	0.040	-28.7	103
50	4-Methyl-2-pentanone	0.108	0.113	-4.7	90
51	1,1-Dichloro-2-propanone	1.529	1.639	-7.2	97
52	cis-1,3-Dichloropropene	0.543	0.517	4.7	82
53 I	d5-Chlorobenzene IS#3	1.000	1.000	0.0	88
54 S	Bromofluorobenzene Surr#3	0.535	0.503	6.0	86
55 CM	Toluene	0.853	0.841	1.4	86
56	Ethyl methacrylate	0.617	0.625	-1.2	85
57	trans-1,3-Dichloropropene	0.537	0.518	3.4	83
58	1,1,2-Trichloroethane	0.343	0.334	2.7	86
59	2-Hexanone	0.902	0.972	-7.8	96
60	1,3-Dichloropropane	0.668	0.672	-0.6	85
61	Tetrachloroethene	0.372	0.377	-1.4	89
62	Chlorodibromomethane	0.423	0.408	3.4	85
63	Ethylene dibromide	0.473	0.456	3.6	83
64 PM	Chlorobenzene	1.000	0.961	3.9	83
65 C	Ethylbenzene	1.690	1.679	0.6	85
66	1,1,1,2-Tetrachloroethane	0.349	0.326	6.6	79
67	p,m-Xylenes	0.633	0.611	3.4	85
68	o-Xylene	0.624	0.600	3.8	85
69	Styrene	1.093	1.086	0.7	85
70	Isopropylbenzene	1.642	1.618	1.4	85

(#) = Out of Range

Continuing Calibration Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Thu Jul 05 10:30:44 2001  
 Response via : Initial Calibration

Continuing Calibration File: 0201002.D

Min. RRF : 0.010 Min. Rel. Area : 50%  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%
71 P	Bromoform	0.348	0.354	-1.8	89
72 P	1,1,2,2-Tetrachloroethane	0.775	0.789	-1.7	89
73	1,2,3-Trichloropropane	0.634	0.651	-2.6	90
74 I	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	92
75	Propylbenzene	3.763	3.784	-0.6	87
76	Bromobenzene	0.826	0.786	4.8	86
77	1,4-trans-Dichloro-2-butene	0.299	0.294	1.4	90
78	2-Chlorotoluene	2.344	2.216	5.5	85
79	1,3,5-Trimethylbenzene	2.534	2.374	6.3	84
80	4-Chlorotoluene	2.602	2.511	3.5	86
81	tert-Butylbenzene	2.419	2.325	3.9	86
82	Pentachloroethane	0.250	0.236	5.6	88
83	1,2,4-Trimethylbenzene	2.632	2.486	5.6	87
84	sec-Butylbenzenz	3.394	3.329	1.9	86
85	p-Isopropyltoluene	2.782	2.714	2.4	87
86	1,3-Dichlorobenzene	1.471	1.384	5.9	88
87	1,4-Dichlorobenzene	1.614	1.534	5.0	87
88	n-Butylbenzene	2.965	2.869	3.2	87
89	1,2-Dichlorobenzene	1.536	1.457	5.1	87
90	Hexachloroethane	0.361	0.369	-2.0	92
91	1,2-Dibromo-3-chloropropane	0.437	0.426	2.5	92
92	Nitrobenzene	0.098	0.145	-47.8#	170#
93	1,2,4-Trichlorobenzene	1.232	1.136	7.7	87
94	Hexachlorobutadiene	0.580	0.554	4.4	90
95	Naphthalene	3.970	4.050	-2.0	88
96	1,2,3-Trichlorobenzene	1.204	1.125	6.6	88
97 T	2-Methyl-naphthalene	1.242	1.328	-6.9	88

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : D:\HPCHEM\1\DATA\070501V\0201002.D  
 Acq On : 5 Jul 2001 9:30  
 Sample : 50.0ppb 8260MI STD B5P53L1  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Jul 5 10:29 19101

Vial: 2  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Wed Jul 04 08:56:19 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene IS#1	7.25	168	1853752	50.00	ug/L	0.02
33) 1,4-Difluorobenzene IS#2	8.60	114	3198157	50.00	ug/L	0.02
53) d5-Chlorobenzene IS#3	14.64	117	2956109	50.00	ug/L	0.03
74) d4-1,4-Dichlorobenzene	20.07	152	1663990	50.00	ug/L	0.02

System Monitoring Compounds

2) Dibromofluoromethane Surr	7.13	113	1179985	46.03	ug/L	0.02
Spiked Amount	50.000	Range	79 - 120	Recovery	=	92.06%
34) d4-1,2-Dichloroethane Sur	7.71	102	268935	51.16	ug/L	0.02
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.32%
15) d8-Toluene Surr#2	11.53	98	3591531	48.45	ug/L	0.02
Spiked Amount	50.000	Range	85 - 114	Recovery	=	96.90%
54) Bromofluorobenzene Surr#3	17.35	95	1487628	47.00	ug/L	0.02
Spiked Amount	50.000	Range	82 - 113	Recovery	=	94.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	1.66	85	1251434	48.24	ug/L	100
4) 2-Nitropropane	10.54	43	892206	55.70	ug/L	98
5) Chloromethane	1.85	50	1429491	47.14	ug/L	99
6) Vinyl Chloride	1.96	62	1058652	49.30	ug/L	99
7) Bromomethane	2.29	94	254208	39.22	ug/L	96
8) Chloroethane	2.40	64	272958m	41.49	ug/L	
9) Trichlorofluoromethane	2.70	101	1143883	46.48	ug/L	97
10) Diethyl ether	3.09	74	417030	51.44	ug/L	97
11) Acrolein	3.25	56	586589	106.26	ug/L #	99
12) Acetone	3.47	58	279027	52.84	ug/L	85
13) 1,1-Dichloroethene	3.36	96	716735	50.69	ug/L	96
14) Iodomethane	3.55	142	620221	46.85	ug/L	98
15) Allyl chloride (3-chloro-1	3.88	39	763293	46.86	ug/L	98
16) Methylene chloride	4.08	84	812909	46.17	ug/L	99
17) Carbon disulfide	3.64	76	2388314	46.38	ug/L	97
18) Acrylonitrile	4.48	53	882873	56.35	ug/L	94
19) 2-Methoxy-2-methylpropane	4.56	73	2406581	47.18	ug/L	99
20) Hexane	4.97	57	1328316	47.16	ug/L	96

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\070501V\0201002.D  
 Acq On : 5 Jul 2001 9:30  
 Sample : 50.0ppb 8260MI STD B5P53L1  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Jul 5 10:29 19101

Vial: 2  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Wed Jul 04 08:56:19 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
21) trans-1,2-Dichloroethene	4.52	96	799543	48.41	ug/L	99
22) 1,1-Dichloroethane	5.21	63	1867004	48.60	ug/L	98
23) Vinyl acetate	5.35	43	3291849	50.42	ug/L	99
24) Methyl ethyl ketone	6.29	72	493537	55.08	ug/L	98
25) Propionitrile (Propanenit	6.38	54	693290	66.42	ug/L #	99
26) 2,2-Dichloropropane	6.21	77	1296201	49.24	ug/L #	88
27) cis-1,2-Dichloroethene	6.24	96	1186070	47.76	ug/L	99
28) Methyl acrylate	6.48	55	2231419	50.88	ug/L	98
29) Methacrylonitrile	6.64	41	1424444	49.98	ug/L	98
30) 1-Chlorobutane	7.33	56	1936304	45.61	ug/L #	93
31) Bromochloromethane	6.66	128	616470	48.94	ug/L	95
32) Chloroform	6.84	83	1980359	48.06	ug/L	97
36) Tetrahydrofuran	6.76	72	549915	59.63	ug/L #	77
37) 1,1,1-Trichloroethane	7.12	97	1466382	47.74	ug/L #	76
38) 1,1-Dichloropropene	7.43	75	1403105	46.33	ug/L	97
39) Carbon tetrachloride	7.43	117	1152592	44.14	ug/L	99
40) Benzene	7.80	78	3884487	47.75	ug/L	100
41) 1,2-Dichloroethane	7.86	62	1530799	49.47	ug/L	100
42) Trichloroethene	9.08	95	1229994	50.63	ug/L	96
43) 1,2-Dichloropropane	9.49	63	1072714	47.77	ug/L	99
44) Methyl methacrylate	9.84	69	1304610	50.74	ug/L	95
45) Chloroacetonitrile	11.01	75	1654422	47.64	ug/L #	97
46) Bromodichloromethane	10.09	83	1304048	46.77	ug/L #	95
47) 1,4-Dioxane	9.84	88	678376	595.58	ug/L #	94
48) Dibromomethane	9.73	93	889016	48.32	ug/L	98
49) 2-Chloroethyl vinyl ether	10.76	63	127903	64.33	ug/L	97
50) 4-Methyl-2-pentanone	11.36	100	361786m	52.34	ug/L	
51) 1,1-Dichloro-2-propanone	11.36	43	5241403	53.59	ug/L	99
52) cis-1,3-Dichloropropene	11.01	75	1654422	47.64	ug/L	98
55) Toluene	11.67	92	2484849	49.28	ug/L	98
56) Ethyl methacrylate	12.47	69	1846360	50.60	ug/L #	96
57) trans-1,3-Dichloropropene	12.20	75	1532496	48.30	ug/L	99
58) 1,1,2-Trichloroethane	12.57	83	986737	48.65	ug/L	98
59) 2-Hexanone	13.16	43	2874580	53.91	ug/L	98

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\070501V\0201002.D  
 Acq On : 5 Jul 2001 9:30  
 Sample : 50.0ppb 8260MI STD B5P53L1  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Jul 5 10:29 19101

Vial: 2  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Wed Jul 04 08:56:19 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
60) 1,3-Dichloropropane	12.90	76	1986815	50.32	ug/L	97
61) Tetrachloroethene	12.83	164	1115538	50.72	ug/L	97
62) Chlorodibromomethane	13.39	129	1207137	48.31	ug/L	96
63) Ethylene dibromide	13.58	107	1347105	48.18	ug/L #	96
64) Chlorobenzene	14.70	112	2839734	48.04	ug/L	98
65) Ethylbenzene	14.99	91	4963877	49.68	ug/L	99
66) 1,1,1,2-Tetrachloroethane	14.92	131	965043	46.70	ug/L	97
67) p,m-Xylenes	15.27	106	3614508	96.61	ug/L	97
68) o-Xylene	16.16	106	1774489	48.09	ug/L	95
69) Styrene	16.20	104	3209750	49.65	ug/L	99
70) Isopropylbenzene	17.04	105	4783837	49.28	ug/L	99
71) Bromoform	16.57	173	1046429	50.92	ug/L	94
72) 1,1,2,2-Tetrachloroethane	17.78	83	2332458	50.87	ug/L	96
73) 1,2,3-Trichloropropane	17.82	75	1923479	51.32	ug/L	98
75) Propylbenzene	18.00	91	6296159	50.28	ug/L	98
76) Bromobenzene	17.65	156	1307556	47.58	ug/L	91
77) 1,4-trans-Dichloro-2-buten	17.91	53	490013	49.28	ug/L #	75
78) 2-Chlorotoluene	18.14	91	3687095	47.26	ug/L	98
79) 1,3,5-Trimethylbenzene	18.45	105	3950455	46.85	ug/L	98
80) 4-Chlorotoluene	18.41	91	4179065	48.26	ug/L	99
81) tert-Butylbenzene	19.19	119	3868477	48.06	ug/L	99
82) Pentachloroethane	21.59	166	393161	47.18	ug/L #	96
83) 1,2,4-Trimethylbenzene	19.31	105	4135908	47.21	ug/L	97
84) sec-Butylbenzenz	19.72	105	5538990	49.03	ug/L	99
85) p-Isopropyltoluene	20.09	119	4516342	48.78	ug/L	99
86) 1,3-Dichlorobenzene	19.91	146	2302784	47.05	ug/L	98
87) 1,4-Dichlorobenzene	20.13	146	2552140	47.50	ug/L	97
88) n-Butylbenzene	21.07	91	4773961	48.38	ug/L	100
89) 1,2-Dichlorobenzene	20.98	146	2424565	47.43	ug/L	97
90) Hexachloroethane	21.59	201	613519	51.00	ug/L	96
91) 1,2-Dibromo-3-chloropropan	22.88	75	709374	48.76	ug/L	96
92) Nitrobenzene	23.36	123	241738	73.89	ug/L	89
93) 1,2,4-Trichlorobenzene	24.90	180	1890700	46.13	ug/L	99
94) Hexachlorobutadiene	25.39	225	922372	47.78	ug/L	97

(#) = qualifier out of range. (m) = manual integration

Data File : D:\HPCHEM\1\DATA\070501V\0201002.D Vial: 2  
 Acq On : 5 Jul 2001 9:30 Operator: DRB  
 Sample : 50.0ppb 8260MI STD B5P53L1 Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 5 10:29 19101 Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Wed Jul 04 08:56:19 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	25.45	128	6738968	51.01 ug/L	100
96) 1,2,3-Trichlorobenzene	26.06	180	1871733	46.70 ug/L	97
97) 2-Methyl-naphthalene	28.21	142	2209156	53.46 ug/L	97

-----  
 (#) = qualifier out of range (m) = manual integration



Data File : D:\HPCHEM\1\DATA\070501V\0301003.D  
 Acq On : 5 Jul 2001 10:09  
 Sample : SYSTEM BLANK 5mL  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Jul 5 11:27 19101

Vial: 3  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Thu Jul 05 10:30:44 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

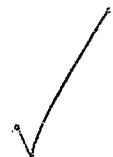
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene IS#1	7.25	168	1831289	50.00	ug/L	0.00
33) 1,4-Difluorobenzene IS#2	8.61	114	3095886	50.00	ug/L	0.00
53) d5-Chlorobenzene IS#3	14.64	117	2893585	50.00	ug/L	0.00
74) d4-1,4-Dichlorobenzene	20.07	152	1593812	50.00	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane Surr	7.13	113	1223410	48.31	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	96.62%
34) d4-1,2-Dichloroethane Sur	7.71	102	262974	51.68	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.36%
5) d8-Toluene Surr#2	11.54	98	3558491	49.59	ug/L	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	99.18%
54) Bromofluorobenzene Surr#3	17.35	95	1465145	47.29	ug/L	0.00
Spiked Amount	50.000	Range	82 - 113	Recovery	=	94.58%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
7) Bromomethane	2.32	94	5135	0.80	ug/L #	64
11) Acrolein	3.24	56	3539	0.65	ug/L	93
12) Acetone	3.46	58	11141m	2.14	ug/L	
47) 1,4-Dioxane	9.84	88	4116	3.73	ug/L #	39
92) Nitrobenzene	23.35	123	6506m	2.08	ug/L	
93) 1,2,4-Trichlorobenzene	24.90	180	28208	0.72	ug/L #	83
95) Naphthalene	25.45	128	124855	0.99	ug/L	100
96) 1,2,3-Trichlorobenzene	26.06	180	27761m	0.72	ug/L	
97) 2-Methyl-naphthalene	28.21	142	73463	1.86	ug/L	92



(#) = qualifier out of range (m) = manual integration

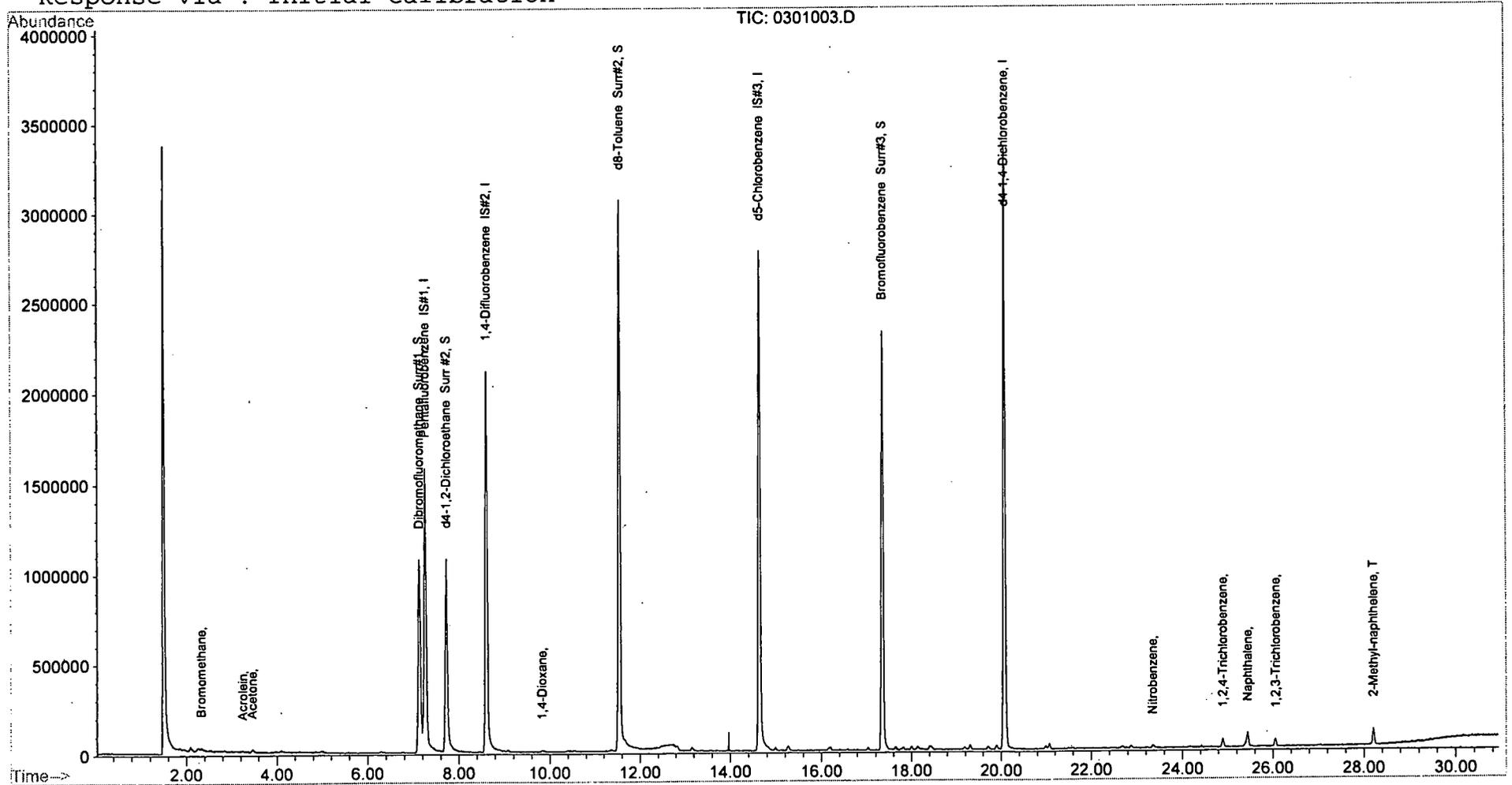
Quantitation Report

Data File : D:\HPCHEM\1\DATA\070501V\0301003.D  
Acq On : 5 Jul 2001 10:09  
Sample : SYSTEM BLANK 5mL  
Misc :  
MS Integration Params: rteint.p  
Quant Time: Jul 5 11:27 19101

Vial: 3  
Operator: DRB  
Inst : GC/MS Ins  
Multiplr: 1.00

Quant Results File: 8260MI.RES

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
Title : Volatile Organics by EPA 8260  
Last Update : Thu Jul 05 10:30:44 2001  
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\070501V\0401004.D  
 Acq On : 5 Jul 2001 10:47  
 Sample : 20.0ppb 8260MI LCS STD B5P49L2  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Jul 5 11:28 19101

Vial: 4  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Thu Jul 05 10:30:44 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene IS#1	7.26	168	1793208	50.00	ug/L	0.00
33) 1,4-Difluorobenzene IS#2	8.61	114	3129516	50.00	ug/L	0.00
53) d5-Chlorobenzene IS#3	14.64	117	2941553	50.00	ug/L	0.00
74) d4-1,4-Dichlorobenzene	20.07	152	1636404	50.00	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane Surr	7.13	113	1266585	51.07	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	102.14%
34) d4-1,2-Dichloroethane Sur	7.72	102	266312	51.77	ug/L	0.01
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.54%
35) d8-Toluene Surr#2	11.54	98	3665677	50.54	ug/L	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	101.08%
54) Bromofluorobenzene Surr#3	17.36	95	1518801	48.22	ug/L	0.00
Spiked Amount	50.000	Range	82 - 113	Recovery	=	96.44%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	1.67	85	427778	17.05	ug/L	96
4) 2-Nitropropane	10.53	43	263175	16.99	ug/L #	92
5) Chloromethane	1.86	50	489871	16.70	ug/L	100
6) Vinyl Chloride	1.97	62	381484	18.37	ug/L	98
7) Bromomethane	2.31	94	137003	21.85	ug/L	83
8) Chloroethane	2.42	64	138306m	21.73	ug/L	
9) Trichlorofluoromethane	2.72	101	500081	21.01	ug/L	98
10) Diethyl ether	3.10	74	148175	18.89	ug/L	91
11) Acrolein	3.25	56	219151	41.04	ug/L #	98
12) Acetone	3.46	58	88184	17.26	ug/L	89
13) 1,1-Dichloroethene	3.37	96	283363	20.72	ug/L	90
14) Iodomethane	3.56	142	241576	18.86	ug/L	98
15) Allyl chloride (3-chloro-1	3.89	39	292012	18.53	ug/L	98
16) Methylene chloride	4.08	84	306057	17.97	ug/L	92
17) Carbon disulfide	3.65	76	907760	18.22	ug/L	96
18) Acrylonitrile	4.48	53	252029	16.63	ug/L	91
19) 2-Methoxy-2-methylpropane	4.55	73	830658	16.84	ug/L	98
20) Hexane	4.98	57	497753	18.27	ug/L	95

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\070501V\0401004.D  
 Acq On : 5 Jul 2001 10:47  
 Sample : 20.0ppb 8260MI LCS STD B5P49L2  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Jul 5 11:28 19101

Vial: 4  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Thu Jul 05 10:30:44 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
21) trans-1,2-Dichloroethene	4.52	96	303237	18.98	ug/L	98
22) 1,1-Dichloroethane	5.22	63	702402	18.90	ug/L	99
23) Vinyl acetate	5.35	43	1116185	17.67	ug/L	100
24) Methyl ethyl ketone	6.29	72	142086	16.39	ug/L	93
25) Propionitrile (Propanenit	6.38	54	161157	15.96	ug/L #	88
26) 2,2-Dichloropropane	6.21	77	478519	18.79	ug/L #	92
27) cis-1,2-Dichloroethene	6.24	96	427622	17.80	ug/L	97
28) Methyl acrylate	6.48	55	751480	17.71	ug/L	97
29) Methacrylonitrile	6.65	41	462505	16.77	ug/L	95
30) 1-Chlorobutane	7.34	56	702867	17.12	ug/L	96
31) Bromochloromethane	6.66	128	231882	19.03	ug/L	98
32) Chloroform	6.84	83	738327	18.52	ug/L	96
36) Tetrahydrofuran	6.75	72	156668	17.36	ug/L	90
37) 1,1,1-Trichloroethane	7.13	97	545023	18.13	ug/L #	70
38) 1,1-Dichloropropene	7.44	75	544260	18.37	ug/L	98
39) Carbon tetrachloride	7.43	117	453508	17.75	ug/L	99
40) Benzene	7.80	78	1466560	18.42	ug/L	100
41) 1,2-Dichloroethane	7.86	62	555189	18.33	ug/L	97
42) Trichloroethene	9.08	95	434072	18.26	ug/L	95
43) 1,2-Dichloropropane	9.49	63	388546	17.68	ug/L	99
44) Methyl methacrylate	9.84	69	431968	17.17	ug/L	98
45) Chloroacetonitrile	11.01	75	604076	17.78	ug/L #	98
46) Bromodichloromethane	10.10	83	516419	18.93	ug/L #	91
48) Dibromomethane	9.74	93	325238	18.07	ug/L	95
49) 2-Chloroethyl vinyl ether	10.76	63	42021	21.60	ug/L	94
50) 4-Methyl-2-pentanone	11.36	100	120185m	17.77	ug/L	
51) 1,1-Dichloro-2-propanone	11.36	43	1622721	16.95	ug/L	100
52) cis-1,3-Dichloropropene	11.01	75	604076	17.78	ug/L	98
55) Toluene	11.68	92	884780	17.64	ug/L	98
56) Ethyl methacrylate	12.47	69	635089	17.49	ug/L #	97
57) trans-1,3-Dichloropropene	12.20	75	559476	17.72	ug/L	94
58) 1,1,2-Trichloroethane	12.57	83	354653	17.57	ug/L	94
59) 2-Hexanone	13.16	43	885075	16.68	ug/L	96
50) 1,3-Dichloropropane	12.90	76	689281	17.54	ug/L	97

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\070501V\0401004.D  
 Acq On : 5 Jul 2001 10:47  
 Sample : 20.0ppb 8260MI LCS STD B5P49L2  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Jul 5 11:28 19101

Vial: 4  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Thu Jul 05 10:30:44 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
61) Tetrachloroethene	12.84	164	410843	18.77	ug/L	97
62) Chlorodibromomethane	13.38	129	431935	17.37	ug/L	93
63) Ethylene dibromide	13.58	107	486655	17.49	ug/L #	96
64) Chlorobenzene	14.70	112	1026870	17.46	ug/L	96
65) Ethylbenzene	14.99	91	1765867	17.76	ug/L	98
66) 1,1,1,2-Tetrachloroethane	14.92	131	357626	17.39	ug/L	96
67) p,m-Xylenes	15.27	106	1272596	34.18	ug/L	96
68) o-Xylene	16.15	106	615415	16.76	ug/L	99
69) Styrene	16.19	104	1084687	16.86	ug/L	99
70) Isopropylbenzene	17.04	105	1655544	17.14	ug/L	100
71) Bromoform	16.57	173	352213	17.22	ug/L	97
72) 1,1,2,2-Tetrachloroethane	17.78	83	730917	16.02	ug/L	98
73) 1,2,3-Trichloropropane	17.82	75	603176	16.17	ug/L	95
75) Propylbenzene	18.00	91	2132906	17.32	ug/L	99
76) Bromobenzene	17.65	156	449182	16.62	ug/L	95
77) 1,4-trans-Dichloro-2-buten	17.91	53	166316	17.01	ug/L #	69
78) 2-Chlorotoluene	18.14	91	1228608	16.01	ug/L	97
79) 1,3,5-Trimethylbenzene	18.44	105	1340305	16.16	ug/L	97
80) 4-Chlorotoluene	18.40	91	1374000	16.14	ug/L	94
81) tert-Butylbenzene	19.19	119	1289631	16.29	ug/L	96
82) Pentachloroethane	21.59	166	147805	18.03	ug/L #	91
83) 1,2,4-Trimethylbenzene	19.31	105	1358229	15.77	ug/L	100
84) sec-Butylbenzenz	19.71	105	1844034	16.60	ug/L	98
85) p-Isopropyltoluene	20.09	119	1484150	16.30	ug/L	98
86) 1,3-Dichlorobenzene	19.90	146	825453	17.15	ug/L	96
87) 1,4-Dichlorobenzene	20.12	146	830144	15.71	ug/L	98
88) n-Butylbenzene	21.07	91	1576287	16.24	ug/L	97
89) 1,2-Dichlorobenzene	20.99	146	796623	15.85	ug/L	99
90) Hexachloroethane	21.59	201	214345	18.12	ug/L	93
91) 1,2-Dibromo-3-chloropropan	22.88	75	210710	14.73	ug/L	97
92) Nitrobenzene	23.36	123	40206	12.50	ug/L	91
93) 1,2,4-Trichlorobenzene	24.89	180	592016	14.69	ug/L	99
94) Hexachlorobutadiene	25.39	225	297308	15.66	ug/L	99
95) Naphthalene	25.45	128	2039157	15.70	ug/L	100

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\070501V\0401004.D Vial: 4  
 Acq On : 5 Jul 2001 10:47 Operator: DRB  
 Sample : 20.0ppb 8260MI LCS STD B5P49L2 Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 5 11:28 19101 Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Thu Jul 05 10:30:44 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
96) 1,2,3-Trichlorobenzene	26.06	180	583300	14.80 ug/L	92
97) 2-Methyl-naphthalene	28.21	142	817006	20.11 ug/L	98

-----  
 (#) = qualifier out of range (m) = manual integration

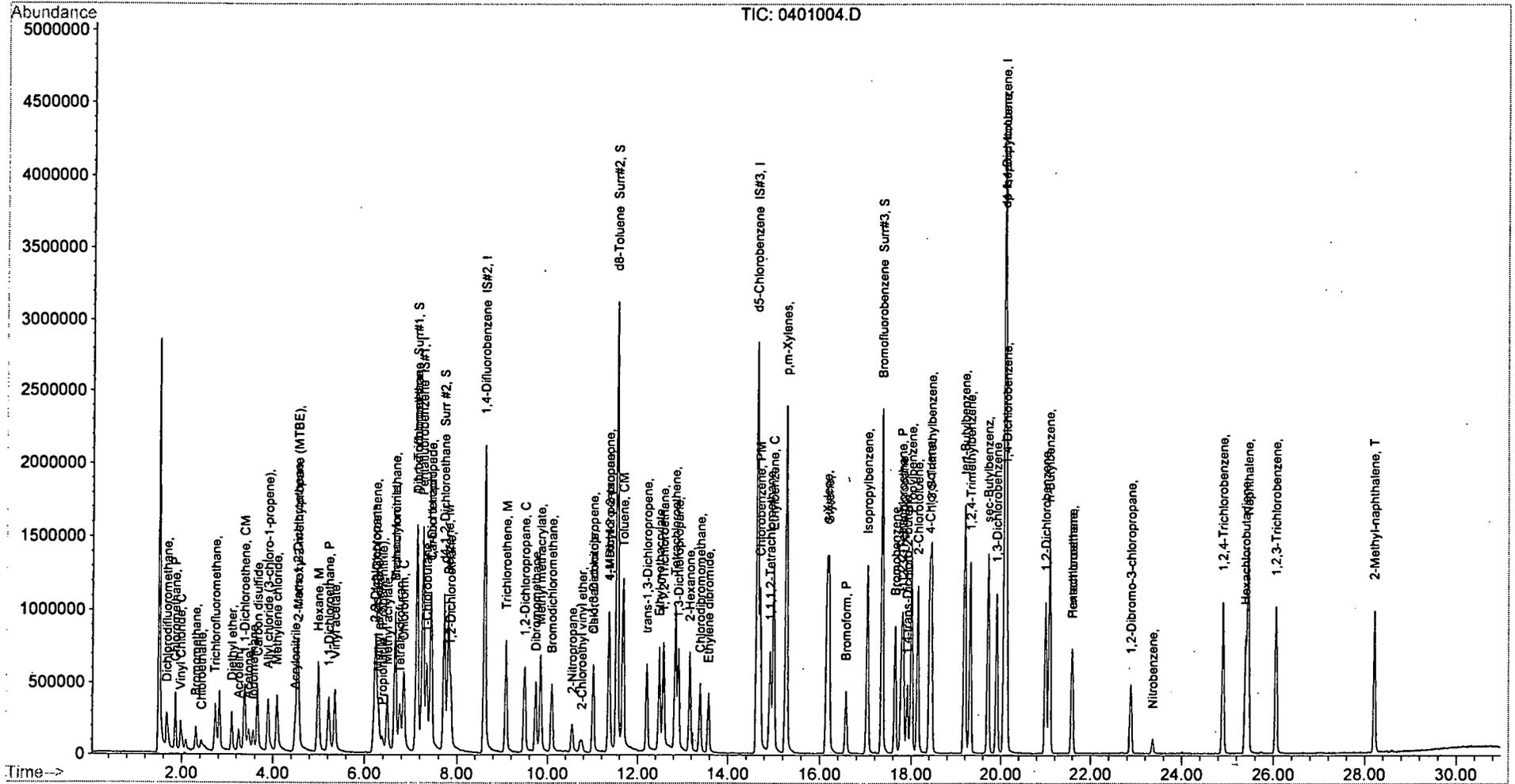
Quantitation Report

Data File : D:\HPCHEM\1\DATA\070501V\0401004.D  
 Acq On : 5 Jul 2001 10:47  
 Sample : 20.0ppb 8260MI LCS STD B5P49L2  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Jul 5 11:28 19101

Vial: 4  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Thu Jul 05 10:30:44 2001  
 Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\070501V\0601006.D  
 Acq On : 5 Jul 2001 12:05  
 Sample : C1F0263-19 OEPA 5mL  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Jul 6 13:44 19101

Vial: 6  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Thu Jul 05 10:30:44 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene IS#1	7.25	168	1736285	50.00	ug/L	0.00
33) 1,4-Difluorobenzene IS#2	8.60	114	2963909	50.00	ug/L	0.00
53) d5-Chlorobenzene IS#3	14.64	117	2862966	50.00	ug/L	0.00
74) d4-1,4-Dichlorobenzene	20.07	152	1607770	50.00	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane Surr	7.13	113	1214676	50.58	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	101.16%
34) d4-1,2-Dichloroethane Sur	7.72	102	268768	55.17	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	110.34%
5) d8-Toluene Surr#2	11.53	98	3535532	51.47	ug/L	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	102.94%
54) Bromofluorobenzene Surr#3	17.35	95	1484348	48.42	ug/L	0.00
Spiked Amount	50.000	Range	82 - 113	Recovery	=	96.84%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
12) Acetone	3.46	58	21574m	4.36	ug/L	
24) Methyl ethyl ketone	6.34	72	15737m	1.88	ug/L	



(#) = qualifier out of range (m) = manual integration

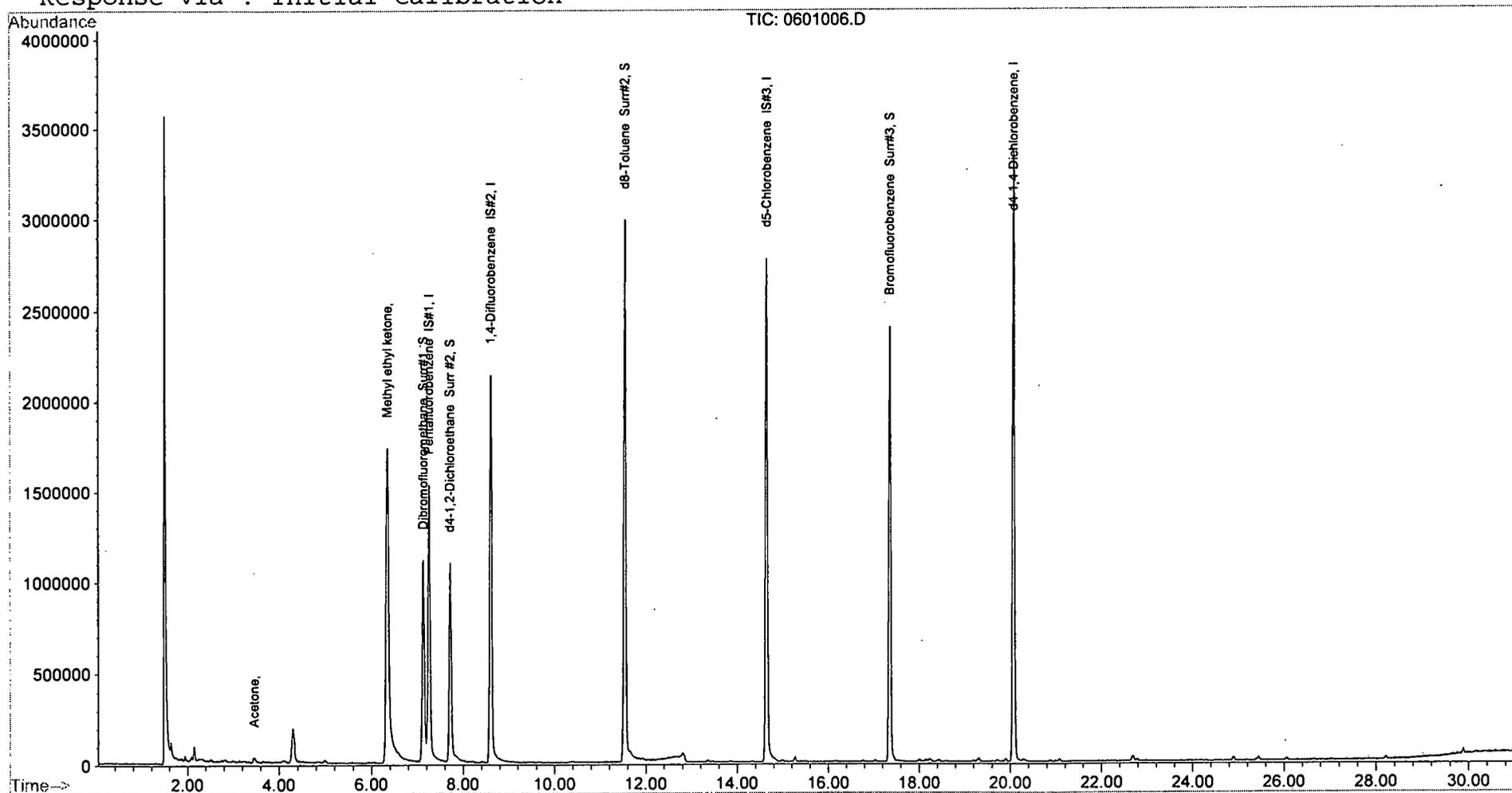
Quantitation Report

Data File : D:\HPCHEM\1\DATA\070501V\0601006.D  
Acq On : 5 Jul 2001 12:05  
Sample : C1F0263-19 OEPA 5mL  
Misc :  
MS Integration Params: rteint.p  
Quant Time: Jul 6 13:44 19101

Vial: 6  
Operator: DRB  
Inst : GC/MS Ins  
Multiplr: 1.00

Quant Results File: 8260MI.RES

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
Title : Volatile Organics by EPA 8260  
Last Update : Thu Jul 05 10:30:44 2001  
Response via : Initial Calibration



# Injection Log

Directory: d:\hpcchem\1\data\071001v

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1		0101001.d	1.	50.0ppb 8260MI STD B5P53L2		10 Jul 01 11:34
2		0201002.d	1.	50.0ppb 8260MI STD B5P53L2		10 Jul 01 12:14
3	3	0301003.d	1.	SYSTEM BLANK 5mL		10 Jul 01 12:55
4	4	0401004.d	1.	20.0ppb 8260MI LCS STD B5P49L2		10 Jul 01 13:36
5	5	0501005.d	1.	C1F0263-16 OEPA 5mL/1.05g —	1mL/0.1mL 1mL/0.1mL 5mL/0.005mL	10 Jul 01 14:17
6	6	0601006.d	1.	C1F0263-17 OEPA 5mL/1.26g	1mL/0.1mL 1mL/0.1mL 5mL/0.005mL	10 Jul 01 14:59
7	7	0701007.d	1.	C1F0263-18 OEPA 5mL/1.19g —	1mL/0.1mL 1mL/0.1mL 5mL/0.005mL	10 Jul 01 15:45
8	5	071001b.d	1.	50ng BFB TUNE STD B5P26L2		10 Jul 01 11:14
9	8	0801008.d	1.	C1F0263-16 OEPA 5mL/1.05g	1mL/0.1mL 1mL/0.1mL 5mL/0.025mL	10 Jul 01 16:28
10	9	0901009.d	1.	C1F0263-16s1 OEPA 5mL/1.05g+50ppb B5P	1mL/0.1mL 1mL/0.1mL 5mL/0.025mL	10 Jul 01 17:11
11	10	1001010.d	1.	C1F0263-16s2 OEPA 5mL/1.05g+50ppb B5P	1mL/0.1mL 1mL/0.1mL 5mL/0.025mL	10 Jul 01 17:54
12	11	1101011.d	1.	C1F0263-18 OEPA 5mL/1.19g	1mL/0.1mL 1mL/0.1mL 5mL/0.005mL	10 Jul 01 18:37
13	12	1201012.d	1.	C1F0140-01 OEPA 5mL/4.00g —	5mL/0.001mL	10 Jul 01 19:26
14	13	1301013.d	1.	C1F0140-04 OEPA 5mL/1.26g —	5mL/0.001mL	10 Jul 01 20:07
15	14	1401014.d	1.	C1F0140-08 OEPA 5mL/4.06g —	5mL/0.001mL	10 Jul 01 20:54
16	15	1501015.d	1.	C1F0140-10 OEPA 5mL/4.12g —	5mL/0.001mL	10 Jul 01 21:34
17	16	1601016.d	1.	C1F0140-12 OEPA 5mL/4.04g —	5mL/0.001mL	10 Jul 01 22:18
18	7	1701017.d	1.	C1F0140-13 OEPA 10mL/1.17g —	5mL/0.001mL	10 Jul 01 23:01

CG11321

V

GC/MS QA-QC Check Report

Tune File : D:\HPCHEM\1\DATA\071001V\071001B.D

Tune Time : 10 Jul 2001 11:14

Calibration File : D:\HPCHEM\1\DATA\071001V\0201002.D

1905400 3301360 3371620

1912890

File	Sample	Surrogate Recovery %				Internal Standard Responses		
=====	=====	=====	=====	=====	=====	=====	=====	=====
0101001.D	50.0ppb	85	95	96	80*	3182037	5188756	4803222
				1999257				
0201002.D	50.0ppb	103	104	96	100	1905395	3301355	3371618
				1912889				
0301003.D	SYSTEM B	108	112	100	114*	1760970	2960870	3007060
				1914764				
0401004.D	20.0ppb	108	113	101	111	1805139	2975455	3052027
				1895882				
0501005.D	C1F0263-	100	111	164*	150*	1001130	1257096*	2130290
				1815040				
0601006.D	C1F0263-	91	108	99	98	2214302	3602642	3376604
				1911686				
0701007.D	C1F0263-	88	103	100	83	2899985	4748560	4311538
				1798128				
0801008.D	C1F0263-	91	110	97	106	2219491	3508526	3172235
				1909724				
0901009.D	C1F0263-	84	97	95	97	2768032	4340971	3502975
				2009424				
1001010.D	C1F0263-	83	97	94	95	2785433	4477446	3519283
				1954747				
1101011.D	C1F0263-	83	99	94	86	2698533	4468626	3520332
				1902149				
1201012.D	C1F0140-	95	105	92	98	2398382	3953580	3145314
				1937113				
1301013.D	tC1F0140-	105	113	100	107	1823379	3020813	2936803
				1863987				
1401014.D	tC1F0140-	105	121*	103	104	1786151	3036302	3111650
				1853820				

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1501015.D C1F0140- 107 118 109 102 1771222 2953386 3220603  
1827671  
-----

1601016.D C1F0140- 78\* 112 104 96 1910356 3309025 3302114  
1896747  
-----

1701017.D C1F0140- 102 115 104 104 1730252 2899239 3000052  
1712070  
-----

t - fails 12hr time check \* - fails criteria

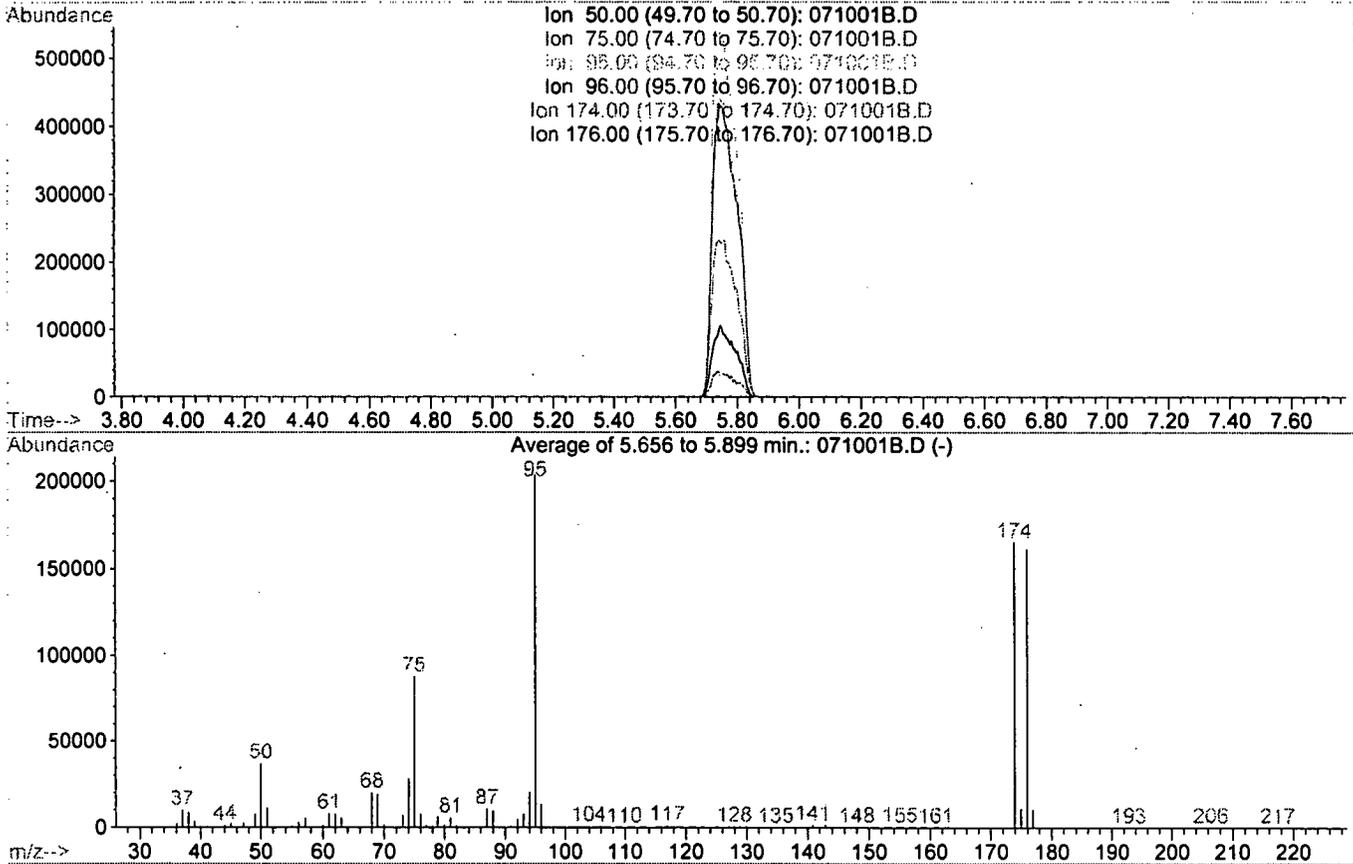
Created: Wed Jul 11 10:01:06 2001 GC  
MS Ins



BFB

Data File : D:\HPCHEM\1\DATA\071001V\071001B.D  
 Acq On : 10 Jul 2001 11:14  
 Sample : 50ng BFB TUNE STD B5P26L2  
 Misc :  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260

Vial: 5  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00



Spectrum Information: Average of 5.656 to 5.899 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.1	36858	PASS
75	95	30	60	43.1	87756	PASS
95	95	100	100	100.0	203624	PASS
96	95	5	9	6.6	13470	PASS
173	174	0.00	2	0.0	16	PASS
174	95	50	100	81.1	165206	PASS
175	174	5	9	6.7	11069	PASS
176	174	95	101	97.5	161140	PASS
177	176	5	9	6.3	10203	PASS

Data File : D:\HPCHEM\1\DATA\071001V\0101001.D Vial: 1  
 Acq On : 10 Jul 2001 11:34 Operator: DRB  
 Sample : 50.0ppb 8260MI STD B5P53L2 Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 10 12:05 19101 Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Thu Jul 05 10:30:44 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene IS#1	7.26	168	3182037	50.00	ug/L	0.01
33) 1,4-Difluorobenzene IS#2	8.61	114	5188756	50.00	ug/L	0.01
53) d5-Chlorobenzene IS#3	14.65	117	4803222	50.00	ug/L	0.00
74) d4-1,4-Dichlorobenzene	20.08	152	1999257	50.00	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane Surr	7.13	113	1869380	42.48	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	84.96%
34) d4-1,2-Dichloroethane Sur	7.72	102	406376	47.65	ug/L	0.01
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.30%
5) d8-Toluene Surr#2	11.54	98	5770725	47.98	ug/L	0.01
Spiked Amount	50.000	Range	85 - 114	Recovery	=	95.96%
54) Bromofluorobenzene Surr#3	17.36	95	2056563	39.99	ug/L	0.00
Spiked Amount	50.000	Range	82 - 113	Recovery	=	79.98%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	1.66	85	1789636	40.19	ug/L	99
4) 2-Nitropropane	10.55	43	1114313	40.53	ug/L	95
5) Chloromethane	1.84	50	1854619	35.63	ug/L	99
6) Vinyl Chloride	1.96	62	1330916	36.11	ug/L	100
7) Bromomethane	2.29	94	414865	37.29	ug/L	93
8) Chloroethane	2.41	64	266976	23.64	ug/L	92
9) Trichlorofluoromethane	2.72	101	1803815	42.70	ug/L	94
10) Diethyl ether	3.09	74	608574	43.73	ug/L	93
11) Acrolein	3.25	56	669257	70.63	ug/L	99
12) Acetone	3.46	58	289394	31.93	ug/L	97
13) 1,1-Dichloroethene	3.36	96	451928	18.62	ug/L	88
14) Iodomethane	3.56	142	898244	39.53	ug/L	98
15) Allyl chloride (3-chloro-1	3.88	39	1133553	40.54	ug/L	96
16) Methylene chloride	4.08	84	1175880	38.91	ug/L	94
17) Carbon disulfide	3.65	76	3610362	40.85	ug/L	98
18) Acrylonitrile	4.48	53	918383	34.15	ug/L	95
19) 2-Methoxy-2-methylpropane	4.55	73	3733237	42.64	ug/L	98
20) Hexane	4.99	57	1539524	31.84	ug/L	96

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\071001V\0101001.D  
 Acq On : 10 Jul 2001 11:34  
 Sample : 50.0ppb 8260MI STD B5P53L2  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Jul 10 12:05 19101

Vial: 1  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Thu Jul 05 10:30:44 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
21) trans-1,2-Dichloroethene	4.52	96	1205774	42.53	ug/L	97
22) 1,1-Dichloroethane	5.22	63	2749602	41.70	ug/L	97
23) Vinyl acetate	5.36	43	4443216	39.65	ug/L	98
24) Methyl ethyl ketone	6.30	72	505519	32.87	ug/L	100
25) Propionitrile (Propanenit	6.39	54	543378	30.33	ug/L #	90
26) 2,2-Dichloropropane	6.22	77	2006067	44.40	ug/L #	91
27) cis-1,2-Dichloroethene	6.24	96	1830477	42.94	ug/L	98
28) Methyl acrylate	6.49	55	3006329	39.93	ug/L	98
29) Methacrylonitrile	6.66	41	1914194	39.12	ug/L	98
30) 1-Chlorobutane	7.34	56	2994139	41.09	ug/L	97
31) Bromochloromethane	6.66	128	936343	43.30	ug/L	95
32) Chloroform	6.84	83	2970361	42.00	ug/L	100
36) Tetrahydrofuran	6.77	72	557657	37.27	ug/L #	83
37) 1,1,1-Trichloroethane	7.13	97	2430580	48.77	ug/L #	86
38) 1,1-Dichloropropene	7.44	75	2277812	46.36	ug/L	99
39) Carbon tetrachloride	7.44	117	1991486	47.01	ug/L	95
40) Benzene	7.81	78	6107681	46.27	ug/L	100
41) 1,2-Dichloroethane	7.87	62	2286695	45.54	ug/L	99
42) Trichloroethene	9.09	95	1875727	47.58	ug/L	98
43) 1,2-Dichloropropane	9.50	63	1756003	48.20	ug/L	99
44) Methyl methacrylate	9.85	69	1953379	46.83	ug/L	98
45) Chloroacetonitrile	11.02	75	2802158	49.74	ug/L #	98
46) Bromodichloromethane	10.10	83	2246189	49.66	ug/L	97
47) 1,4-Dioxane	9.84	88	433787	234.74	ug/L #	92
48) Dibromomethane	9.74	93	1372730	45.99	ug/L	95
49) 2-Chloroethyl vinyl ether	10.77	63	221560	68.69	ug/L #	89
50) 4-Methyl-2-pentanone	11.37	100	441652	39.38	ug/L	94
51) 1,1-Dichloro-2-propanone	11.37	43	6643562	41.87	ug/L	100
52) cis-1,3-Dichloropropene	11.02	75	2802158	49.74	ug/L	99
55) Toluene	11.68	92	4077672	49.78	ug/L	98
56) Ethyl methacrylate	12.48	69	2905837	49.01	ug/L #	97
57) trans-1,3-Dichloropropene	12.21	75	2594364	50.32	ug/L	98
58) 1,1,2-Trichloroethane	12.57	83	1544569	46.87	ug/L	95
59) 2-Hexanone	13.16	43	3492462	40.31	ug/L	96

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\071001V\0101001.D

Vial: 1

Acq On : 10 Jul 2001 11:34

Operator: DRB

Sample : 50.0ppb 8260MI STD B5P53L2

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 10 12:05 19101

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)

Title : Volatile Organics by EPA 8260

Last Update : Thu Jul 05 10:30:44 2001

Response via : Initial Calibration

DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
60) 1,3-Dichloropropane	12.91	76	3147819	49.07	ug/L	98
61) Tetrachloroethene	12.85	164	1942072	54.35	ug/L	97
62) Chlorodibromomethane	13.40	129	2089374	51.47	ug/L	95
63) Ethylene dibromide	13.59	107	2172864	47.83	ug/L #	98
64) Chlorobenzene	14.70	112	4655134	48.47	ug/L	97
65) Ethylbenzene	15.00	91	7763796	47.82	ug/L	99
66) 1,1,1,2-Tetrachloroethane	14.92	131	1706100	50.82	ug/L	97
67) p,m-Xylenes	15.27	106	5467965	89.95	ug/L	94
68) o-Xylene	16.16	106	2635833	43.96	ug/L	95
69) Styrene	16.20	104	4680972	44.57	ug/L	100
70) Isopropylbenzene	17.04	105	7153349	45.35	ug/L	100
71) Bromoform	16.57	173	1507717	45.15	ug/L	99
72) 1,1,2,2-Tetrachloroethane	17.79	83	2628065	35.28	ug/L	100
73) 1,2,3-Trichloropropane	17.82	75	2351684	38.62	ug/L	98
75) Propylbenzene	18.00	91	8427002	56.01	ug/L	98
76) Bromobenzene	17.65	156	1788187	54.16	ug/L	97
77) 1,4-trans-Dichloro-2-buten	17.92	53	623653	52.20	ug/L #	75
78) 2-Chlorotoluene	18.15	91	4849260	51.73	ug/L	99
79) 1,3,5-Trimethylbenzene	18.45	105	5146885	50.80	ug/L	96
80) 4-Chlorotoluene	18.41	91	5348409	51.41	ug/L	100
81) tert-Butylbenzene	19.19	119	4836886	50.02	ug/L	100
82) Pentachloroethane	21.60	166	474970	47.44	ug/L #	94
83) 1,2,4-Trimethylbenzene	19.31	105	5175039	49.17	ug/L	99
84) sec-Butylbenzenz	19.72	105	6744130	49.69	ug/L	98
85) p-Isopropyltoluene	20.10	119	5420774	48.73	ug/L	99
86) 1,3-Dichlorobenzene	19.91	146	2775016	47.19	ug/L	98
87) 1,4-Dichlorobenzene	20.14	146	3118209	48.31	ug/L	98
88) n-Butylbenzene	21.08	91	5752611	48.52	ug/L	100
89) 1,2-Dichlorobenzene	20.99	146	3112127	50.68	ug/L	99
90) Hexachloroethane	21.59	201	762411	52.75	ug/L	95
91) 1,2-Dibromo-3-chloropropan	22.88	75	853518	48.83	ug/L	97
92) Nitrobenzene	23.36	123	224359	57.08	ug/L	94
93) 1,2,4-Trichlorobenzene	24.90	180	2330649	47.33	ug/L	97
94) Hexachlorobutadiene	25.40	225	1038989	44.80	ug/L	96

(#)= qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\071001V\0101001.D Vial: 1  
 Acq On : 10 Jul 2001 11:34 Operator: DRB  
 Sample : 50.0ppb 8260MI STD B5P53L2 Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 10 12:05 19101 Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Thu Jul 05 10:30:44 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	25.45	128	8163849	51.43 ug/L	100
96) 1,2,3-Trichlorobenzene	26.06	180	2237716	46.47 ug/L	99
97) 2-Methyl-naphthalene	28.21	142	2768088	55.76 ug/L	99

-----  
 (#) = qualifier out of range (m) = manual integration

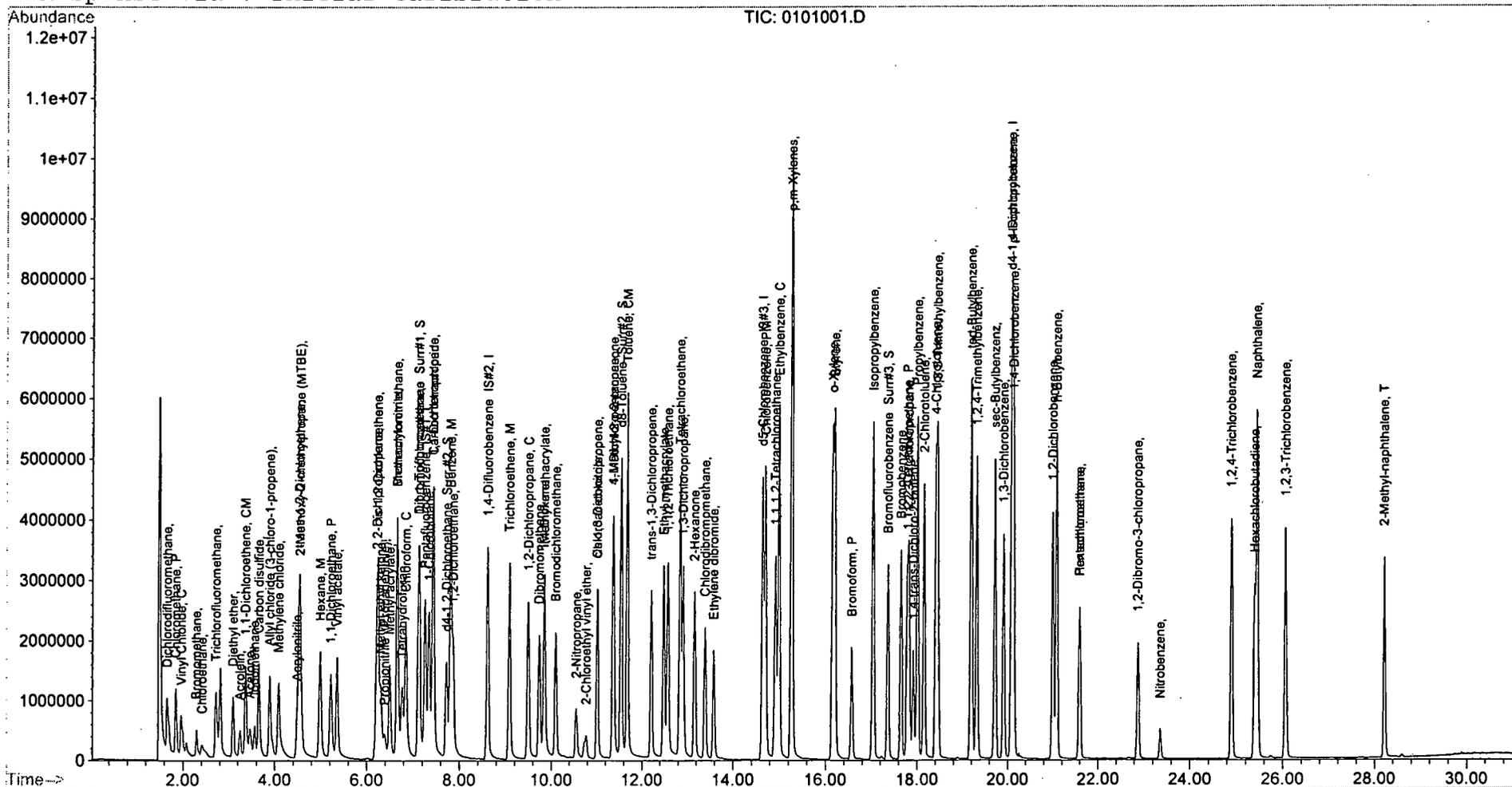
Quantitation Report

Data File : D:\HPCHEM\1\DATA\071001V\0101001.D  
Acq On : 10 Jul 2001 11:34  
Sample : 50.0ppb 8260MI STD B5P53L2  
Misc :  
MS Integration Params: rteint.p  
Quant Time: Jul 10 12:05 19101

Vial: 1  
Operator: DRB  
Inst : GC/MS Ins  
Multiplr: 1.00

Quant Results File: 8260MI.RES

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
Title : Volatile Organics by EPA 8260  
Last Update : Tue Jul 10 13:38:48 2001  
Response via : Initial Calibration



Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration

Continuing Calibration File: 0201002.D

Min. RRF : 0.010 Min. Rel. Area : 50%  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%
1 I	Pentafluorobenzene IS#1	1.000	1.000	0.0	92
2 S	Dibromofluoromethane Surr#1	0.691	0.710	-2.7	94
3	Dichlorodifluoromethane	0.700	0.734	-5.0	94
4	2-Nitropropane	0.432	0.580	-34.2#	126
5 P	Chloromethane	0.818	0.867	-6.0	106
6 C	Vinyl Chloride	0.579	0.600	-3.5	98
7	Bromomethane	0.175	0.141	19.6	76
8	Chloroethane	0.177	0.144	18.9	69
9	Trichlorofluoromethane	0.664	0.634	4.5	81
10	Diethyl ether	0.219	0.199	8.8	79
11	Acrolein	0.149	0.180	-20.7	113
12	Acetone	0.142	0.181	-27.3	142
13 CM	1,1-Dichloroethene	0.381	0.368	3.6	85
14	Iodomethane	0.357	0.350	2.0	75
15	Allyl chloride (3-chloro-1-pr	0.439	0.423	3.6	89
16	Methylene chloride	0.475	0.484	-1.9	96
17	Carbon disulfide	1.389	1.323	4.7	85
18	Acrylonitrile	0.423	0.520	-23.1	119
19	2-Methoxy-2-methylpropane (MT	1.376	1.273	7.4	83
20 M	Hexane	0.760	0.447	41.1#	53
21	trans-1,2-Dichloroethene	0.446	0.425	4.7	86
22 P	1,1-Dichloroethane	1.036	1.033	0.3	91
23	Vinyl acetate	1.761	1.750	0.6	90
24	Methyl ethyl ketone	0.242	0.328	-35.6#	138
25	Propionitrile (Propanenitril	0.282	0.439	-55.8#	165#
26	2,2-Dichloropropane	0.710	0.640	9.9	82
27	cis-1,2-Dichloroethene	0.670	0.652	2.6	87
28	Methyl acrylate	1.183	1.298	-9.7	104
29	Methacrylonitrile	0.769	0.836	-8.7	103
30	1-Chlorobutane	1.145	0.973	15.0	79
31	Bromochloromethane	0.340	0.350	-3.0	91
32 C	Chloroform	1.111	1.092	1.8	89
33 I	1,4-Difluorobenzene IS#2	1.000	1.000	0.0	92
34 S	d4-1,2-Dichloroethane Surr #	0.082	0.086	-4.3	92
35 S	d8-Toluene Surr#2	1.159	1.107	4.5	86

(#) = Out of Range

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration

Continuing Calibration File: 0201002.D

Min. RRF : 0.010 Min. Rel. Area : 50%  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%
36	Tetrahydrofuran	0.144	0.199	-38.2#	144
37	1,1,1-Trichloroethane	0.480	0.464	3.4	83
38	1,1-Dichloropropene	0.473	0.416	12.0	81
39	Carbon tetrachloride	0.408	0.382	6.3	88
40 M	Benzene	1.272	1.143	10.2	81
41	1,2-Dichloroethane	0.484	0.486	-0.5	89
42 M	Trichloroethene	0.380	0.351	7.6	82
43 C	1,2-Dichloropropane	0.351	0.326	7.2	82
44	Methyl methacrylate	0.402	0.416	-3.4	93
45	Chloroacetonitrile	0.543	0.531	2.1	87
46	Bromodichloromethane	0.436	0.443	-1.7	93
47	1,4-Dioxane	0.018	0.034	-91.2#	184#
48	Dibromomethane	0.288	0.307	-6.8	96
49	2-Chloroethyl vinyl ether	0.031	0.049	-59.0#	132
50	4-Methyl-2-pentanone	0.108	0.124	-15.0	103
51	1,1-Dichloro-2-propanone	1.529	1.931	-26.3	117
52	cis-1,3-Dichloropropene	0.543	0.531	2.1	87
53 I	d5-Chlorobenzene IS#3	1.000	1.000	0.0	101
54 S	Bromofluorobenzene Surr#3	0.535	0.534	0.2	104
55 CM	Toluene	0.853	0.735	13.8	85
56	Ethyl methacrylate	0.617	0.604	2.1	94
57	trans-1,3-Dichloropropene	0.537	0.513	4.4	94
58	1,1,2-Trichloroethane	0.343	0.318	7.2	93
59	2-Hexanone	0.902	1.036	-14.9	117
60	1,3-Dichloropropane	0.668	0.617	7.6	89
61	Tetrachloroethene	0.372	0.360	3.2	97
62	Chlorodibromomethane	0.423	0.443	-4.8	105
63	Ethylene dibromide	0.473	0.457	3.3	95
64 PM	Chlorobenzene	1.000	0.968	3.1	95
65 C	Ethylbenzene	1.690	1.600	5.3	92
66	1,1,1,2-Tetrachloroethane	0.349	0.351	-0.3	97
67	p,m-Xylenes	0.633	0.616	2.7	98
68	o-Xylene	0.624	0.618	0.9	100
69	Styrene	1.093	1.120	-2.5	100
70	Isopropylbenzene	1.642	1.669	-1.6	99

(#) = Out of Range

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration

Continuing Calibration File: 0201002.D

Min. RRF : 0.010 Min. Rel. Area : 50%  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%
71 P	Bromoform	0.348	0.401	-15.3	115
72 P	1,1,2,2-Tetrachloroethane	0.775	0.772	0.4	99
73	1,2,3-Trichloropropane	0.634	0.656	-3.6	103
74 I	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	105
75	Propylbenzene	3.763	3.707	1.5	98
76	Bromobenzene	0.826	0.817	1.0	103
77	1,4-trans-Dichloro-2-butene	0.299	0.326	-9.0	115
78	2-Chlorotoluene	2.344	2.225	5.1	99
79	1,3,5-Trimethylbenzene	2.534	2.425	4.3	99
80	4-Chlorotoluene	2.602	2.489	4.3	98
81	tert-Butylbenzene	2.419	2.272	6.1	96
82	Pentachloroethane	0.250	0.242	3.4	104
83	1,2,4-Trimethylbenzene	2.632	2.540	3.5	102
84	sec-Butylbenzenz	3.394	3.226	5.0	96
85	p-Isopropyltoluene	2.782	2.620	5.8	96
86	1,3-Dichlorobenzene	1.471	1.361	7.4	99
87	1,4-Dichlorobenzene	1.614	1.495	7.4	98
88	n-Butylbenzene	2.965	2.779	6.3	96
89	1,2-Dichlorobenzene	1.536	1.474	4.0	101
90	Hexachloroethane	0.361	0.384	-6.1	110
91	1,2-Dibromo-3-chloropropane	0.437	0.520	-19.0	129
92	Nitrobenzene	0.098	0.219	-122.6#	294#
93	1,2,4-Trichlorobenzene	1.232	1.171	4.9	103
94	Hexachlorobutadiene	0.580	0.496	14.4	93
95	Naphthalene	3.970	4.300	-8.3	107
96	1,2,3-Trichlorobenzene	1.204	1.157	3.9	104
97 T	2-Methyl-naphthalene	1.242	1.370	-10.4	105

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

0201002.D 8260MI.M Tue Jul 10 13:39:41 2001 RPT1

Page 3

Data File : D:\HPCHEM\1\DATA\071001V\0201002.D  
 Acq On : 10 Jul 2001 12:14  
 Sample : 50.0ppb 8260MI STD B5P53L2  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Jul 10 13:37 19101

Vial: 2  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Thu Jul 05 10:30:44 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene IS#1	7.26	168	1905395	50.00	ug/L	0.01
33) 1,4-Difluorobenzene IS#2	8.62	114	3301355	50.00	ug/L	0.02
53) d5-Chlorobenzene IS#3	14.65	117	3371618	50.00	ug/L	0.00
74) d4-1,4-Dichlorobenzene	20.08	152	1912889	50.00	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane Surr	7.14	113	1353589	51.37	ug/L	0.01
Spiked Amount	50.000	Range	79 - 120	Recovery	=	102.74%
34) d4-1,2-Dichloroethane Sur	7.74	102	282854	52.13	ug/L	0.03
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.26%
5) d8-Toluene Surr#2	11.54	98	3653858	47.75	ug/L	0.01
Spiked Amount	50.000	Range	85 - 114	Recovery	=	95.50%
54) Bromofluorobenzene Surr#3	17.36	95	1800931	49.88	ug/L	0.01
Spiked Amount	50.000	Range	82 - 113	Recovery	=	99.76%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	1.67	85	1399285	52.48	ug/L	99
4) 2-Nitropropane	10.56	43	1104468	67.08	ug/L	94
5) Chloromethane	1.86	50	1652466	53.02	ug/L	98
6) Vinyl Chloride	1.97	62	1142371	51.76	ug/L	99
7) Bromomethane	2.29	94	267735	40.19	ug/L	97
8) Chloroethane	2.41	64	274140m	40.54	ug/L	
9) Trichlorofluoromethane	2.71	101	1207984	47.76	ug/L	93
10) Diethyl ether	3.10	74	380001	45.60	ug/L	98
11) Acrolein	3.25	56	684634	120.66	ug/L #	97
12) Acetone	3.48	58	345479	63.66	ug/L	96
13) 1,1-Dichloroethene	3.37	96	700602	48.21	ug/L	90
14) Iodomethane	3.56	142	666997	49.01	ug/L	98
15) Allyl chloride (3-chloro-1	3.89	39	806900	48.19	ug/L	98
16) Methylene chloride	4.08	84	922377m	50.97	ug/L	
17) Carbon disulfide	3.64	76	2521360	47.64	ug/L	100
18) Acrylonitrile	4.50	53	990748	61.53	ug/L	96
19) 2-Methoxy-2-methylpropane	4.57	73	2426137	46.28	ug/L	99
20) Hexane	4.98	57	852482	29.45	ug/L	94

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\071001V\0201002.D  
 Acq On : 10 Jul 2001 12:14  
 Sample : 50.0ppb 8260MI STD B5P53L2  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Jul 10 13:37 19101

Vial: 2  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Thu Jul 05 10:30:44 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
21) trans-1,2-Dichloroethene	4.52	96	809116	47.66	ug/L	100
22) 1,1-Dichloroethane	5.22	63	1967705	49.84	ug/L	96
23) Vinyl acetate	5.36	43	3334792	49.69	ug/L	100
24) Methyl ethyl ketone	6.31	72	624648	67.82	ug/L	96
25) Propionitrile (Propanenit	6.40	54	835517	77.88	ug/L #	90
26) 2,2-Dichloropropane	6.22	77	1219232	45.06	ug/L	92
27) cis-1,2-Dichloroethene	6.24	96	1243053	48.70	ug/L	97
28) Methyl acrylate	6.50	55	2473369	54.87	ug/L	99
29) Methacrylonitrile	6.67	41	1592851	54.37	ug/L	98
30) 1-Chlorobutane	7.35	56	1853546	42.48	ug/L #	99
31) Bromochloromethane	6.67	128	667167	51.52	ug/L	96
32) Chloroform	6.85	83	2080045	49.11	ug/L	100
36) Tetrahydrofuran	6.78	72	657990	69.12	ug/L	93
37) 1,1,1-Trichloroethane	7.13	97	1531877	48.31	ug/L #	95
38) 1,1-Dichloropropene	7.45	75	1374918	43.98	ug/L	99
39) Carbon tetrachloride	7.44	117	1262720	46.84	ug/L	97
40) Benzene	7.81	78	3772098	44.92	ug/L	100
41) 1,2-Dichloroethane	7.87	62	1605851	50.27	ug/L	99
42) Trichloroethene	9.09	95	1159116	46.22	ug/L	98
43) 1,2-Dichloropropane	9.50	63	1075546	46.40	ug/L	100
44) Methyl methacrylate	9.85	69	1372424	51.71	ug/L	97
45) Chloroacetonitrile	11.02	75	1754052	48.93	ug/L #	96
46) Bromodichloromethane	10.10	83	1463901	50.86	ug/L	97
47) 1,4-Dioxane	9.84	88	1124172m	956.12	ug/L	
48) Dibromomethane	9.74	93	1013833	53.38	ug/L	97
49) 2-Chloroethyl vinyl ether	10.78	63	163129	79.49	ug/L	97
50) 4-Methyl-2-pentanone	11.37	100	410361m	57.51	ug/L	
51) 1,1-Dichloro-2-propanone	11.37	43	6374989	63.14	ug/L	100
52) cis-1,3-Dichloropropene	11.02	75	1754052	48.93	ug/L	99
55) Toluene	11.68	92	2477617	43.09	ug/L	96
56) Ethyl methacrylate	12.48	69	2038051	48.97	ug/L #	97
57) trans-1,3-Dichloropropene	12.21	75	1729651	47.80	ug/L	99
58) 1,1,2-Trichloroethane	12.57	83	1073125	46.39	ug/L	98
59) 2-Hexanone	13.17	43	3492521	57.43	ug/L	95

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\071001V\0201002.D

Vial: 2

Acq On : 10 Jul 2001 12:14

Operator: DRB

Sample : 50.0ppb 8260MI STD B5P53L2

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 10 13:37 19101

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)

Title : Volatile Organics by EPA 8260

Last Update : Thu Jul 05 10:30:44 2001

Response via : Initial Calibration

DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
60) 1,3-Dichloropropane	12.91	76	2080461	46.20	ug/L	98
61) Tetrachloroethene	12.84	164	1214479	48.42	ug/L	97
62) Chlorodibromomethane	13.40	129	1492733	52.38	ug/L	98
63) Ethylene dibromide	13.58	107	1541857	48.35	ug/L #	99
64) Chlorobenzene	14.70	112	3265360	48.43	ug/L	98
65) Ethylbenzene	15.00	91	5394745	47.34	ug/L	100
66) 1,1,1,2-Tetrachloroethane	14.92	131	1182453	50.17	ug/L	99
67) p,m-Xylenes	15.27	106	4153111	97.32	ug/L	99
68) o-Xylene	16.16	106	2085140	49.54	ug/L	99
69) Styrene	16.20	104	3777548	51.24	ug/L	99
70) Isopropylbenzene	17.04	105	5626599	50.82	ug/L	99
71) Bromoform	16.58	173	1351015	57.64	ug/L	97
72) 1,1,2,2-Tetrachloroethane	17.79	83	2603391	49.78	ug/L	96
73) 1,2,3-Trichloropropane	17.83	75	2213339	51.78	ug/L	99
75) Propylbenzene	18.01	91	7091469	49.26	ug/L	98
76) Bromobenzene	17.65	156	1563313	49.49	ug/L	95
77) 1,4-trans-Dichloro-2-buten	17.92	53	622802	54.49	ug/L #	83
78) 2-Chlorotoluene	18.15	91	4256999	47.46	ug/L	100
79) 1,3,5-Trimethylbenzene	18.45	105	4639198	47.86	ug/L	99
80) 4-Chlorotoluene	18.41	91	4761965	47.84	ug/L	98
81) tert-Butylbenzene	19.19	119	4346264	46.97	ug/L	99
82) Pentachloroethane	21.60	166	462919	48.32	ug/L #	95
83) 1,2,4-Trimethylbenzene	19.32	105	4859577	48.25	ug/L	99
84) sec-Butylbenzenz	19.72	105	6170435	47.52	ug/L	98
85) p-Isopropyltoluene	20.10	119	5011995	47.09	ug/L	99
86) 1,3-Dichlorobenzene	19.91	146	2603713	46.28	ug/L	96
87) 1,4-Dichlorobenzene	20.13	146	2858841	46.29	ug/L	95
88) n-Butylbenzene	21.08	91	5315359	46.85	ug/L	99
89) 1,2-Dichlorobenzene	20.99	146	2820065	47.99	ug/L	97
90) Hexachloroethane	21.59	201	733731	53.06	ug/L	96
91) 1,2-Dibromo-3-chloropropan	22.88	75	995057	59.50	ug/L	96
92) Nitrobenzene	23.37	123	418551	111.28	ug/L	93
93) 1,2,4-Trichlorobenzene	24.90	180	2240321	47.55	ug/L	98
94) Hexachlorobutadiene	25.40	225	949266	42.78	ug/L	99

(#)= qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\071001V\0201002.D  
 Acq On : 10 Jul 2001 12:14  
 Sample : 50.0ppb 8260MI STD B5P53L2  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Jul 10 13:37 19101

Vial: 2  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Thu Jul 05 10:30:44 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Naphthalene	25.45	128	8225099	54.16 ug/L	100
96) 1,2,3-Trichlorobenzene	26.06	180	2214116	48.05 ug/L	99
97) 2-Methyl-naphthalene	28.21	142	2621512	55.19 ug/L	97

-----  
 (#) = qualifier out of range (m) = manual integration



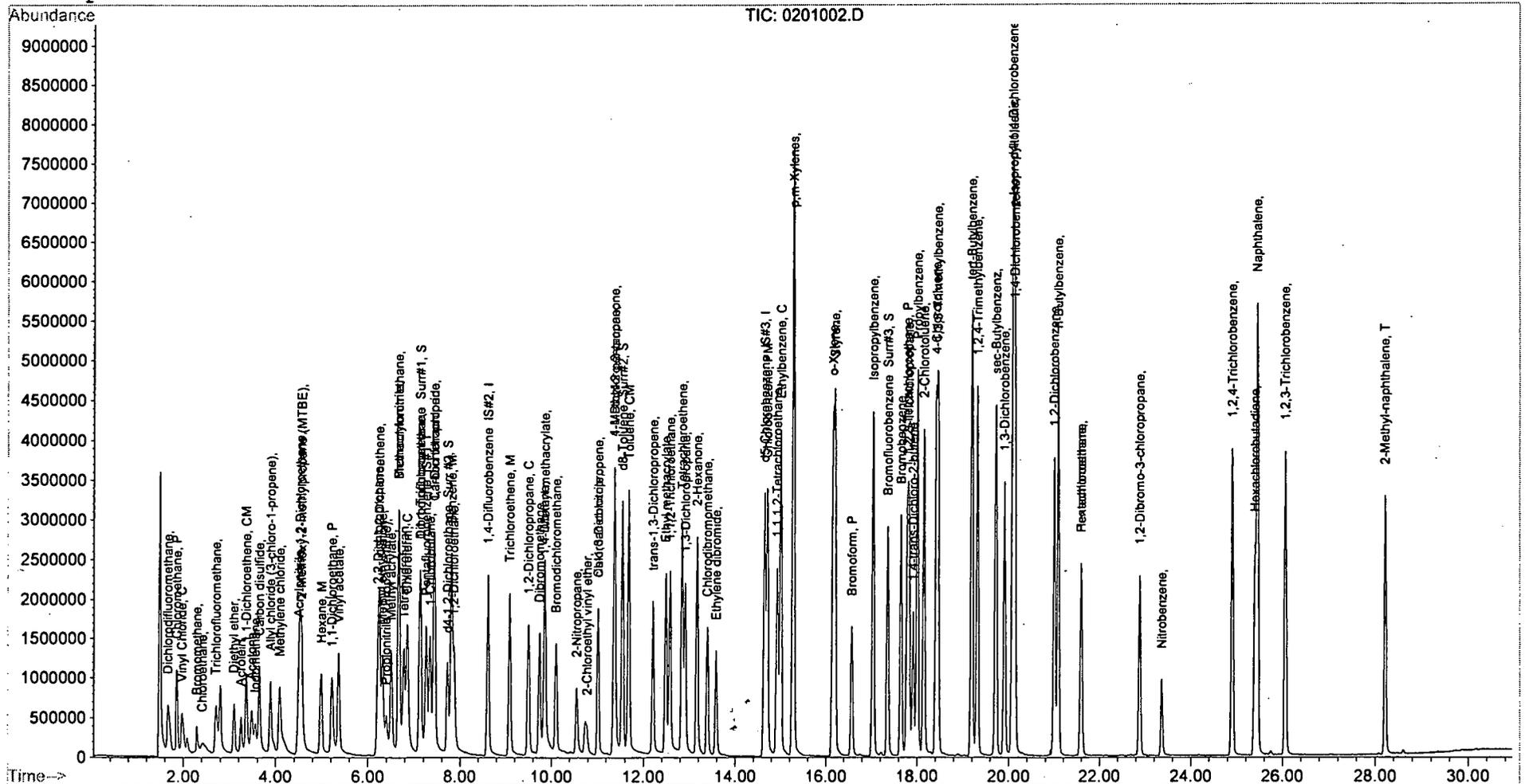
Quantitation Report

Data File : D:\HPCHEM\1\DATA\071001V\0201002.D  
 Acq On : 10 Jul 2001 12:14  
 Sample : 50.0ppb 8260MI STD B5P53L2  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Jul 10 13:37 19101

Vial: 2  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\071001V\0301003.D  
 Acq On : 10 Jul 2001 12:55  
 Sample : SYSTEM BLANK 5mL  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Jul 10 13:42 19101

Vial: 3  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Thu Jul 05 10:30:44 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene IS#1	7.27	168	1760970	50.00	ug/L	0.02
33) 1,4-Difluorobenzene IS#2	8.62	114	2960870	50.00	ug/L	0.02
53) d5-Chlorobenzene IS#3	14.65	117	3007060	50.00	ug/L	0.00
74) d4-1,4-Dichlorobenzene	20.08	152	1914764	50.00	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane Surr	7.14	113	1318334	54.13	ug/L	0.02
Spiked Amount	50.000	Range	79 - 120	Recovery	=	108.26%
34) d4-1,2-Dichloroethane Sur	7.73	102	273548	56.21	ug/L	0.02
Spiked Amount	50.000	Range	80 - 120	Recovery	=	112.42%
15) d8-Toluene Surr#2	11.55	98	3440854	50.14	ug/L	0.02
Spiked Amount	50.000	Range	85 - 114	Recovery	=	100.28%
54) Bromofluorobenzene Surr#3	17.36	95	1827725	56.76	ug/L	0.01
Spiked Amount	50.000	Range	82 - 113	Recovery	=	113.52%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
12) Acetone	3.47	58	13359m	2.66	ug/L	
61) Tetrachloroethene	12.85	164	12102	0.54	ug/L #	83
92) Nitrobenzene	23.38	123	7188	1.91	ug/L #	46
93) 1,2,4-Trichlorobenzene	24.90	180	41573	0.88	ug/L	90
95) Naphthalene	25.45	128	143640	0.94	ug/L	100
96) 1,2,3-Trichlorobenzene	26.06	180	31709	0.69	ug/L	89
97) 2-Methyl-naphthalene	28.23	142	79015	1.66	ug/L	88

(#) = qualifier out of range (m) = manual integration

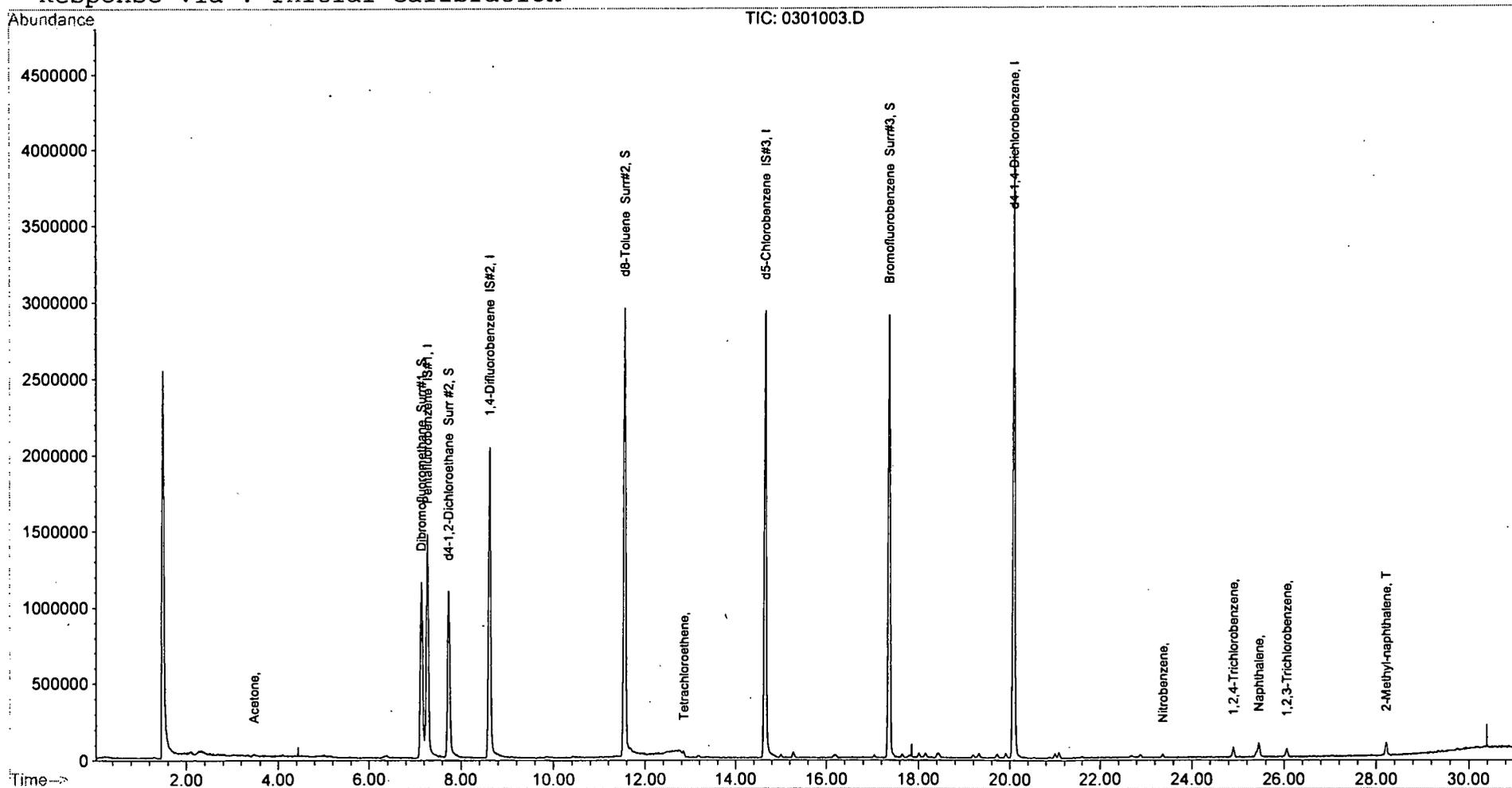
Quantitation Report

Data File : D:\HPCHEM\1\DATA\071001V\0301003.D  
Acq On : 10 Jul 2001 12:55  
Sample : SYSTEM BLANK 5mL  
Misc :  
MS Integration Params: rteint.p  
Quant Time: Jul 10 13:42 19101

Vial: 3  
Operator: DRB  
Inst : GC/MS Ins  
Multiplr: 1.00

Quant Results File: 8260MI.RES

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
Title : Volatile Organics by EPA 8260  
Last Update : Tue Jul 10 13:38:48 2001  
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\071001V\0401004.D

Vial: 4

Acq On : 10 Jul 2001 13:36

Operator: DRB

Sample : 20.0ppb 8260MI LCS STD B5P49L2

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 10 14:10 19101

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)

Title : Volatile Organics by EPA 8260

Last Update : Tue Jul 10 13:38:48 2001

Response via : Initial Calibration

DataAcq Meth : 8260MI

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	7.27	168	1805139	50.00	ug/L	0.01
33) 1,4-Difluorobenzene IS#2	8.62	114	2975455	50.00	ug/L	0.00
53) d5-Chlorobenzene IS#3	14.65	117	3052027	50.00	ug/L	0.00
74) d4-1,4-Dichlorobenzene	20.08	152	1895882	50.00	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane Surr	7.15	113	1354150	54.24	ug/L	0.01
Spiked Amount	50.000	Range	79 - 120	Recovery	=	108.48%
34) d4-1,2-Dichloroethane Sur	7.73	102	276631	56.56	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	113.12%
5) d8-Toluene Surr#2	11.55	98	3478657	50.44	ug/L	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	100.88%
54) Bromofluorobenzene Surr#3	17.36	95	1810084	55.39	ug/L	0.00
Spiked Amount	50.000	Range	82 - 113	Recovery	=	110.78%

Target Compounds

					Qvalue
3) Dichlorodifluoromethane	1.68	85	590976	23.40	ug/L 95
4) 2-Nitropropane	10.56	43	366440	23.49	ug/L 97
5) Chloromethane	1.85	50	626231	21.21	ug/L 96
6) Vinyl Chloride	1.98	62	482243	23.06	ug/L 94
7) Bromomethane	2.30	94	171893	27.24	ug/L 90
8) Chloroethane	2.42	64	170936m	26.68	ug/L
9) Trichlorofluoromethane	2.74	101	593328	24.76	ug/L 97
10) Diethyl ether	3.11	74	168842	21.39	ug/L 86
11) Acrolein	3.26	56	257638	47.93	ug/L # 98
12) Acetone	3.47	58	123156	23.95	ug/L 89
13) 1,1-Dichloroethene	3.38	96	330046	23.97	ug/L 89
14) Iodomethane	3.57	142	372928	28.93	ug/L 92
15) Allyl chloride (3-chloro-1	3.90	39	328930	20.74	ug/L 89
16) Methylene chloride	4.10	84	389682m	22.73	ug/L
17) Carbon disulfide	3.66	76	1067091	21.28	ug/L 97
18) Acrylonitrile	4.49	53	345798	22.67	ug/L 95
19) 2-Methoxy-2-methylpropane	4.57	73	921178	18.55	ug/L 99
20) Hexane	5.00	57	368016	13.42	ug/L 94

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\071001V\0401004.D  
 Acq On : 10 Jul 2001 13:36  
 Sample : 20.0ppb 8260MI LCS STD B5P49L2  
 Misc :  
 MS Integration Params: rteint.p  
 Quant Time: Jul 10 14:10 19101

Vial: 4  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
21) trans-1,2-Dichloroethene	4.54	96	351886	21.88	ug/L	95
22) 1,1-Dichloroethane	5.23	63	788415	21.08	ug/L	99
23) Vinyl acetate	5.37	43	1226099	19.28	ug/L	100
24) Methyl ethyl ketone	6.31	72	199480	22.86	ug/L	96
25) Propionitrile (Propanenit	6.40	54	249464	24.54	ug/L #	89
26) 2,2-Dichloropropane	6.23	77	501302	19.56	ug/L	100
27) cis-1,2-Dichloroethene	6.25	96	495923	20.51	ug/L	94
28) Methyl acrylate	6.51	55	888817	20.81	ug/L	97
29) Methacrylonitrile	6.67	41	595036	21.44	ug/L	99
30) 1-Chlorobutane	7.35	56	753961	18.24	ug/L #	99
31) Bromochloromethane	6.67	128	263197	21.46	ug/L	91
32) Chloroform	6.86	83	823680	20.53	ug/L	99
36) Tetrahydrofuran	6.78	72	224184	26.13	ug/L	94
37) 1,1,1-Trichloroethane	7.13	97	614246	21.49	ug/L #	92
38) 1,1-Dichloropropene	7.45	75	568154	20.16	ug/L	100
39) Carbon tetrachloride	7.44	117	514793	21.19	ug/L	95
40) Benzene	7.82	78	1578487	20.85	ug/L	100
41) 1,2-Dichloroethane	7.88	62	654058	22.72	ug/L	98
42) Trichloroethene	9.09	95	466668	20.65	ug/L	99
43) 1,2-Dichloropropane	9.51	63	422076	20.20	ug/L	98
44) Methyl methacrylate	9.86	69	516596	21.60	ug/L	96
45) Chloroacetonitrile	11.03	75	652839	20.21	ug/L #	96
46) Bromodichloromethane	10.11	83	574702	22.16	ug/L	97
48) Dibromomethane	9.74	93	391675	22.88	ug/L	97
49) 2-Chloroethyl vinyl ether	10.78	63	58531	31.64	ug/L	94
50) 4-Methyl-2-pentanone	11.38	100	146517m	22.78	ug/L	
51) 1,1-Dichloro-2-propanone	11.37	43	2136045	23.47	ug/L	99
52) cis-1,3-Dichloropropene	11.03	75	652839	20.21	ug/L	98
55) Toluene	11.68	92	956946	18.38	ug/L	96
56) Ethyl methacrylate	12.49	69	721930	19.16	ug/L #	95
57) trans-1,3-Dichloropropene	12.22	75	622664	19.01	ug/L	99
58) 1,1,2-Trichloroethane	12.58	83	380910	18.19	ug/L	92
59) 2-Hexanone	13.17	43	1205551	21.90	ug/L	99
60) 1,3-Dichloropropane	12.92	76	763219	18.72	ug/L	98

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\071001V\0401004.D

Vial: 4

Acq On : 10 Jul 2001 13:36

Operator: DRB

Sample : 20.0ppb 8260MI LCS STD B5P49L2

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 10 14:10 19101

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)

Title : Volatile Organics by EPA 8260

Last Update : Tue Jul 10 13:38:48 2001

Response via : Initial Calibration

DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
61) Tetrachloroethene	12.85	164	479716	21.13	ug/L	96
62) Chlorodibromomethane	13.40	129	541594	21.00	ug/L	96
63) Ethylene dibromide	13.59	107	558850	19.36	ug/L	94
64) Chlorobenzene	14.71	112	1188696	19.48	ug/L	98
65) Ethylbenzene	15.00	91	1965846	19.06	ug/L	98
66) 1,1,1,2-Tetrachloroethane	14.93	131	423401	19.85	ug/L	95
67) p,m-Xylenes	15.28	106	1535797	39.76	ug/L	96
68) o-Xylene	16.16	106	769189	20.19	ug/L	98
69) Styrene	16.20	104	1384446	20.74	ug/L	99
70) Isopropylbenzene	17.04	105	2018519	20.14	ug/L	99
1) Bromoform	16.58	173	504445	23.77	ug/L	98
2) 1,1,2,2-Tetrachloroethane	17.79	83	991974	20.96	ug/L	100
73) 1,2,3-Trichloropropane	17.82	75	847720	21.91	ug/L	96
75) Propylbenzene	18.01	91	2700507	18.93	ug/L	100
76) Bromobenzene	17.65	156	601689	19.22	ug/L	91
77) 1,4-trans-Dichloro-2-buten	17.92	53	263357	23.25	ug/L	96
78) 2-Chlorotoluene	18.14	91	1609384	18.10	ug/L	99
79) 1,3,5-Trimethylbenzene	18.45	105	1782495	18.55	ug/L	98
80) 4-Chlorotoluene	18.41	91	1834886	18.60	ug/L	95
81) tert-Butylbenzene	19.19	119	1723034	18.79	ug/L	99
82) Pentachloroethane	21.61	166	205647	21.66	ug/L #	99
83) 1,2,4-Trimethylbenzene	19.32	105	1841232	18.45	ug/L	96
84) sec-Butylbenzenz	19.72	105	2458746	19.10	ug/L	98
85) p-Isopropyltoluene	20.10	119	1933680	18.33	ug/L	97
86) 1,3-Dichlorobenzene	19.91	146	1057739	18.97	ug/L	99
87) 1,4-Dichlorobenzene	20.14	146	1064109	17.38	ug/L	96
88) n-Butylbenzene	21.08	91	2003065	17.82	ug/L	99
89) 1,2-Dichlorobenzene	20.99	146	984164	16.90	ug/L	98
90) Hexachloroethane	21.61	201	304161	22.19	ug/L	94
91) 1,2-Dibromo-3-chloropropan	22.88	75	311917	18.82	ug/L	96
92) Nitrobenzene	23.37	123	87481	23.47	ug/L	83
93) 1,2,4-Trichlorobenzene	24.91	180	790771	16.93	ug/L	98
4) Hexachlorobutadiene	25.39	225	381305	17.34	ug/L	98
5) Naphthalene	25.45	128	2777010	18.45	ug/L	100

(#)= qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\071001V\0401004.D Vial: 4  
 Acq On : 10 Jul 2001 13:36 Operator: DRB  
 Sample : 20.0ppb 8260MI LCS STD B5P49L2 Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 10 14:10 19101 Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) 1,2,3-Trichlorobenzene	26.06	180	779158	17.06	ug/L	98
97) 2-Methyl-naphthalene	28.22	142	1217139	25.85	ug/L	98

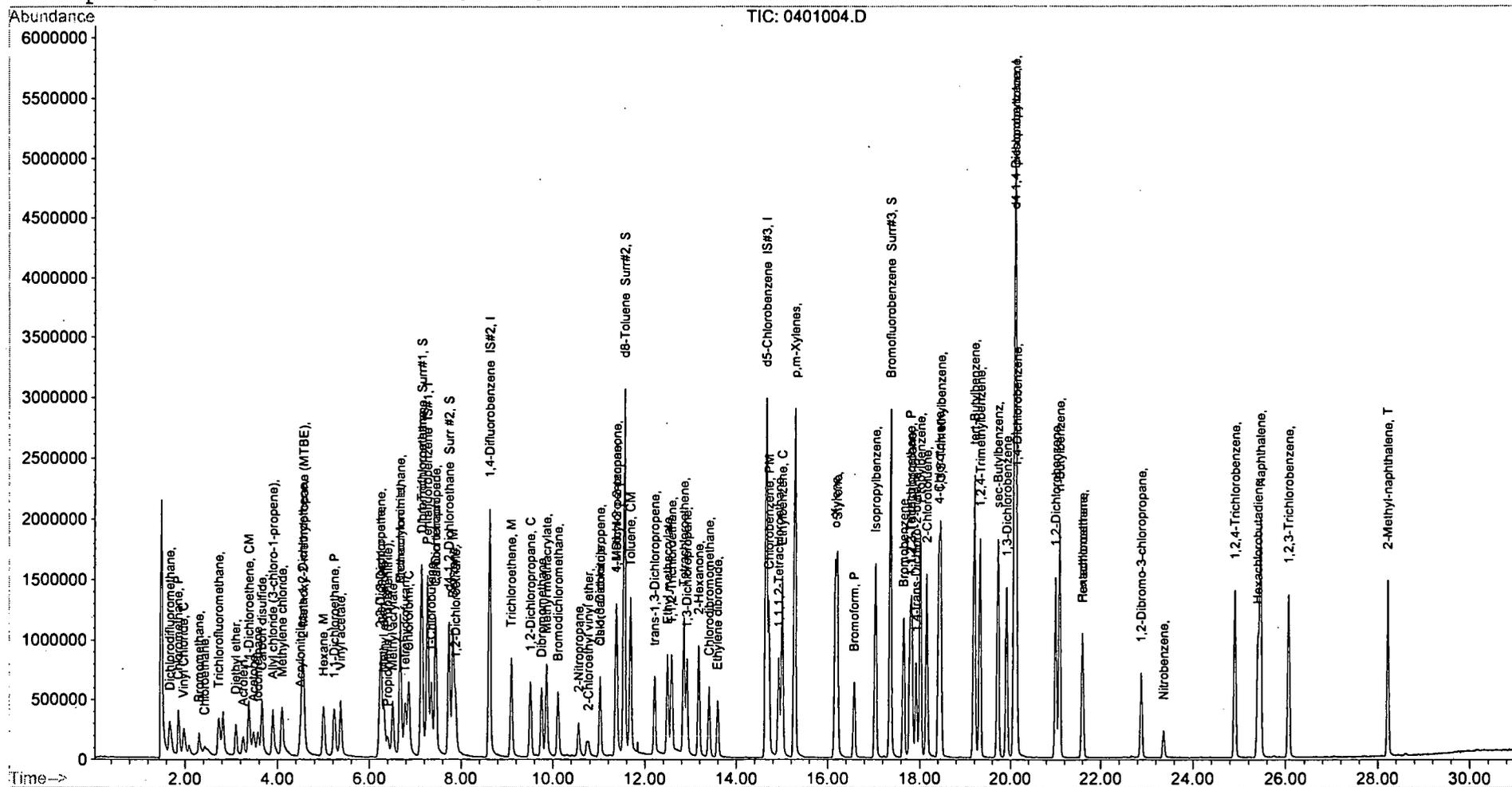
Quantitation Report

Data File : D:\HPCHEM\1\DATA\071001V\0401004.D  
Acq On : 10 Jul 2001 13:36  
Sample : 20.0ppb 8260MI LCS STD B5P49L2  
Misc :  
MS Integration Params: rteint.p  
Quant Time: Jul 10 14:10 19101

Vial: 4  
Operator: DRB  
Inst : GC/MS Ins  
Multiplr: 1.00

Quant Results File: 8260MI.RES

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
Title : Volatile Organics by EPA 8260  
Last Update : Tue Jul 10 13:38:48 2001  
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\071001V\0501005.D Vial: 5  
 Acq On : 10 Jul 2001 14:17 Operator: DRB  
 Sample : C1F0263-16 OEPA 5mL/1.05g Inst : GC/MS Ins  
 Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.005mL Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 10 14:56 19101 Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene IS#1	7.34	168	1001130 OK	50.00	ug/L	0.08
33) 1,4-Difluorobenzene IS#2	8.65	114	1257096 LOW	50.00	ug/L	0.04
53) d5-Chlorobenzene IS#3	14.74	117	2130290	50.00	ug/L	0.10
74) d4-1,4-Dichlorobenzene	20.11	152	1815040 OK	50.00	ug/L	0.04

System Monitoring Compounds

2) Dibromofluoromethane Surr	7.23	113	694349	50.15	ug/L	0.09
Spiked Amount	50.000	Range	79 - 120	Recovery	=	100.30%
34) d4-1,2-Dichloroethane Sur	7.81	102	114682	55.50	ug/L	0.08
Spiked Amount	50.000	Range	80 - 120	Recovery	=	111.00%
5) d8-Toluene Surr#2	11.53	98	2383307	81.80	ug/L	-0.01
Spiked Amount	50.000	Range	85 - 114	Recovery	=	163.60%#
54) Bromofluorobenzene Surr#3	17.42	95	1708297	74.89	ug/L	0.06
Spiked Amount	50.000	Range	82 - 113	Recovery	=	149.78%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
12) Acetone	3.60	58	16157m	5.67	ug/L	
24) Methyl ethyl ketone	6.47	72	5250m	1.08	ug/L	
55) Toluene	11.67	92	21666m	0.60	ug/L	
65) Ethylbenzene	15.09	91	65172	0.91	ug/L #	71
67) p,m-Xylenes	15.36	106	98606	3.66	ug/L	85
68) o-Xylene	16.24	106	56035	2.11	ug/L	93
75) Propylbenzene	18.06	91	157309	1.15	ug/L	96
79) 1,3,5-Trimethylbenzene	18.51	105	198818	2.16	ug/L	93
83) 1,2,4-Trimethylbenzene	19.37	105	630143	6.59	ug/L	96
84) sec-Butylbenzenz	19.75	105	85690	0.70	ug/L #	91
85) p-Isopropyltoluene	20.14	119	61151	0.61	ug/L #	94
88) n-Butylbenzene	21.11	91	297611	2.76	ug/L #	79
93) 1,2,4-Trichlorobenzene	24.92	180	24063m	0.54	ug/L	
95) Naphthalene	25.47	128	126316	0.88	ug/L	100
97) 2-Methyl-naphthalene	28.22	142	77180	1.71	ug/L #	93

(#) = qualifier out of range (m) = manual integration

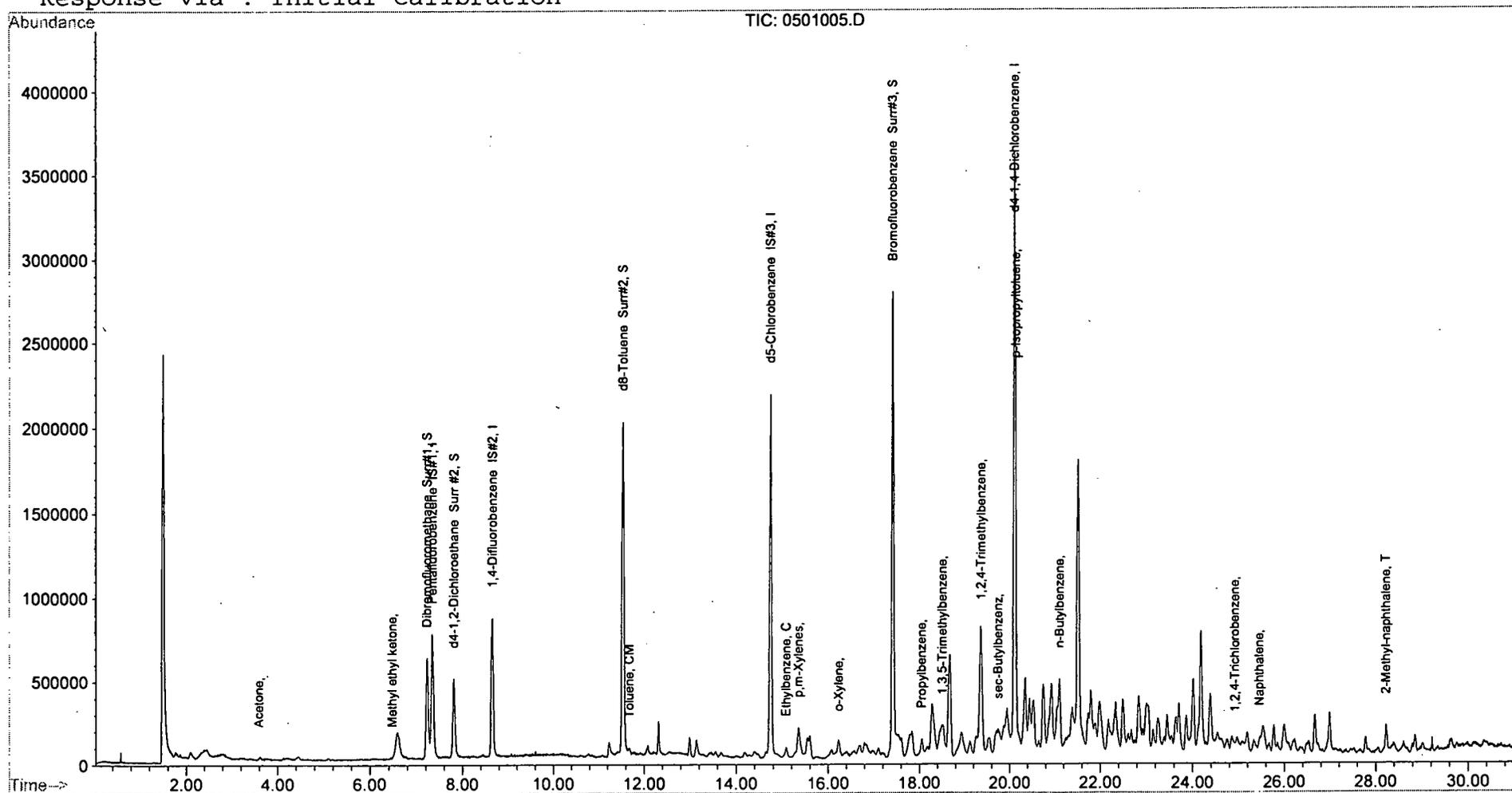
Quantitation Report

Data file : D:\HPCHEM\1\DATA\071001V\0501005.D  
 Acq On : 10 Jul 2001 14:17  
 Sample : C1F0263-16 OEPA 5mL/1.05g  
 Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.005mL  
 MS Integration Params: rteint.p  
 Quant Time: Jul 10 14:56 19101

Vial: 5  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\071001V\0601006.D Vial: 6  
 Acq On : 10 Jul 2001 14:59 Operator: DRB  
 Sample : C1F0263-17 OEPA 5mL/1.26g Inst : GC/MS Ins  
 Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.005mL Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 10 15:34 19101 Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	7.27	168	2214302	50.00	ug/L	0.01
33) 1,4-Difluorobenzene IS#2	8.62	114	3602642	50.00	ug/L	0.00
53) d5-Chlorobenzene IS#3	14.65	117	3376604	50.00	ug/L	0.00
74) d4-1,4-Dichlorobenzene	20.09	152	1911686	50.00	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane Surr	7.14	113	1391445	45.44	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	90.88%
34) d4-1,2-Dichloroethane Sur	7.73	102	321091	54.22	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	108.44%
5) d8-Toluene Surr#2	11.55	98	4143962	49.63	ug/L	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	99.26%
54) Bromofluorobenzene Surr#3	17.36	95	1766436	48.86	ug/L	0.00
Spiked Amount	50.000	Range	82 - 113	Recovery	=	97.72%

Target Compounds

12) Acetone	3.49	58	16512m	2.62	ug/L	Qvalue
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(#) = qualifier out of range (m) = manual integration

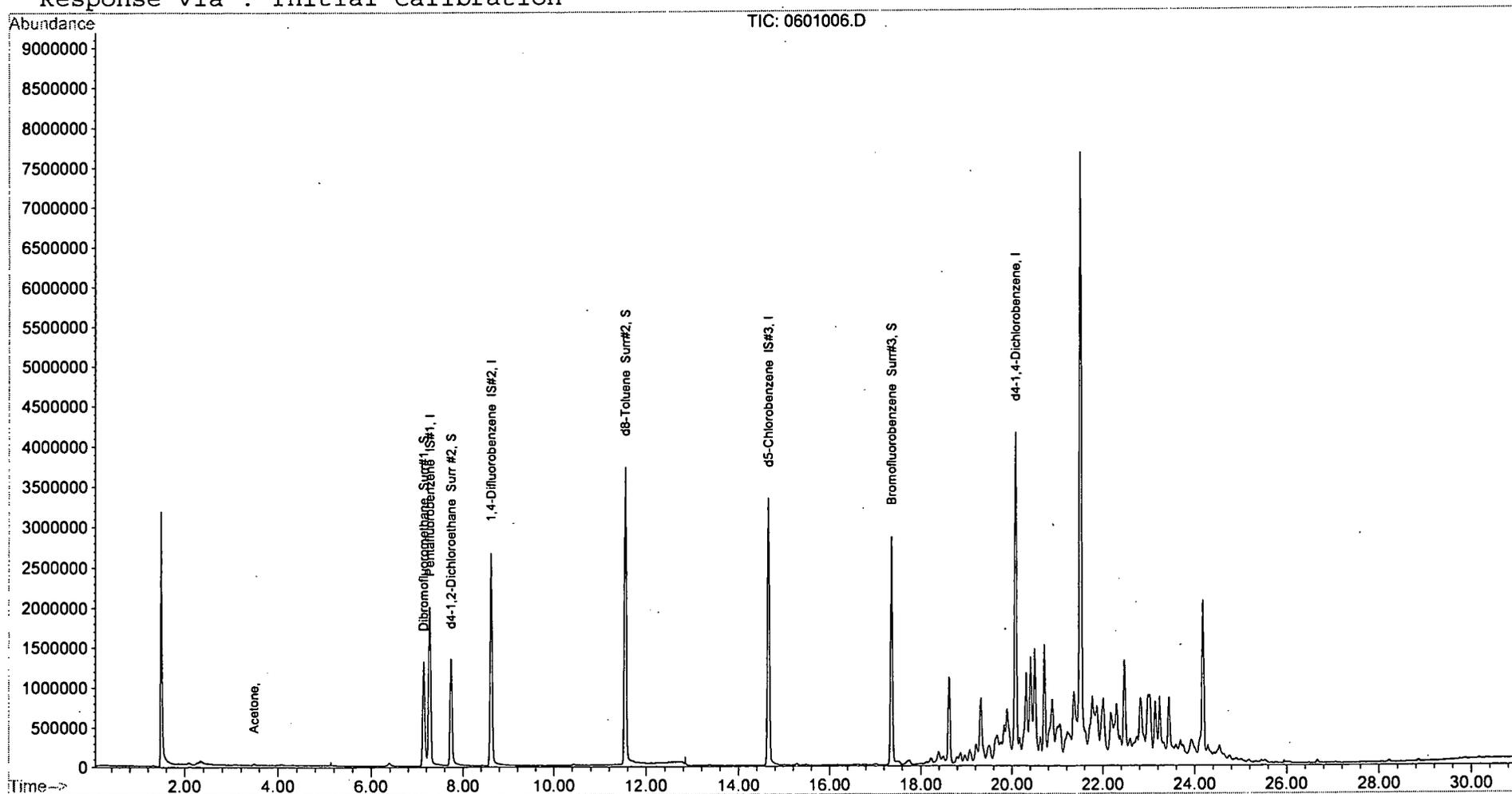
# Quantitation Report

Data File : D:\HPCHEM\1\DATA\071001V\0601006.D  
Acq On : 10 Jul 2001 14:59  
Sample : C1F0263-17 OEPA 5mL/1.26g  
Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.005mL  
MS Integration Params: rteint.p  
Quant Time: Jul 10 15:34 19101

Vial: 6  
Operator: DRB  
Inst : GC/MS Ins  
Multiplr: 1.00

Quant Results File: 8260MI.RES

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
Title : Volatile Organics by EPA 8260  
Last Update : Tue Jul 10 13:38:48 2001  
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\071001V\0701007.D Vial: 7  
 Acq On : 10 Jul 2001 15:45 Operator: DRB  
 Sample : C1F0263-18 OEPA 5mL/1.19g Inst : GC/MS Ins  
 Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.005mL Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 10 16:43 19101 Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene IS#1	7.26	168	2899985	50.00	ug/L	0.00
33) 1,4-Difluorobenzene IS#2	8.62	114	4748560	50.00	ug/L	0.00
53) d5-Chlorobenzene IS#3	14.65	117	4311538	50.00	ug/L	0.00
74) d4-1,4-Dichlorobenzene	20.09	152	1798128	50.00	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane Surr	7.13	113	1768380	44.09	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	88.18%
34) d4-1,2-Dichloroethane Sur	7.73	102	401510	51.44	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.88%
5) d8-Toluene Surr#2	11.55	98	5519101	50.15	ug/L	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	100.30%
54) Bromofluorobenzene Surr#3	17.37	95	1910333	41.38	ug/L	0.00
Spiked Amount	50.000	Range	82 - 113	Recovery	=	82.76%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
12) Acetone	3.48	58	17860m	2.16	ug/L	
97) 2-Methyl-naphthalene	28.22	142	27580	0.62	ug/L #	88

NOT USED

(#) = qualifier out of range (m) = manual integration

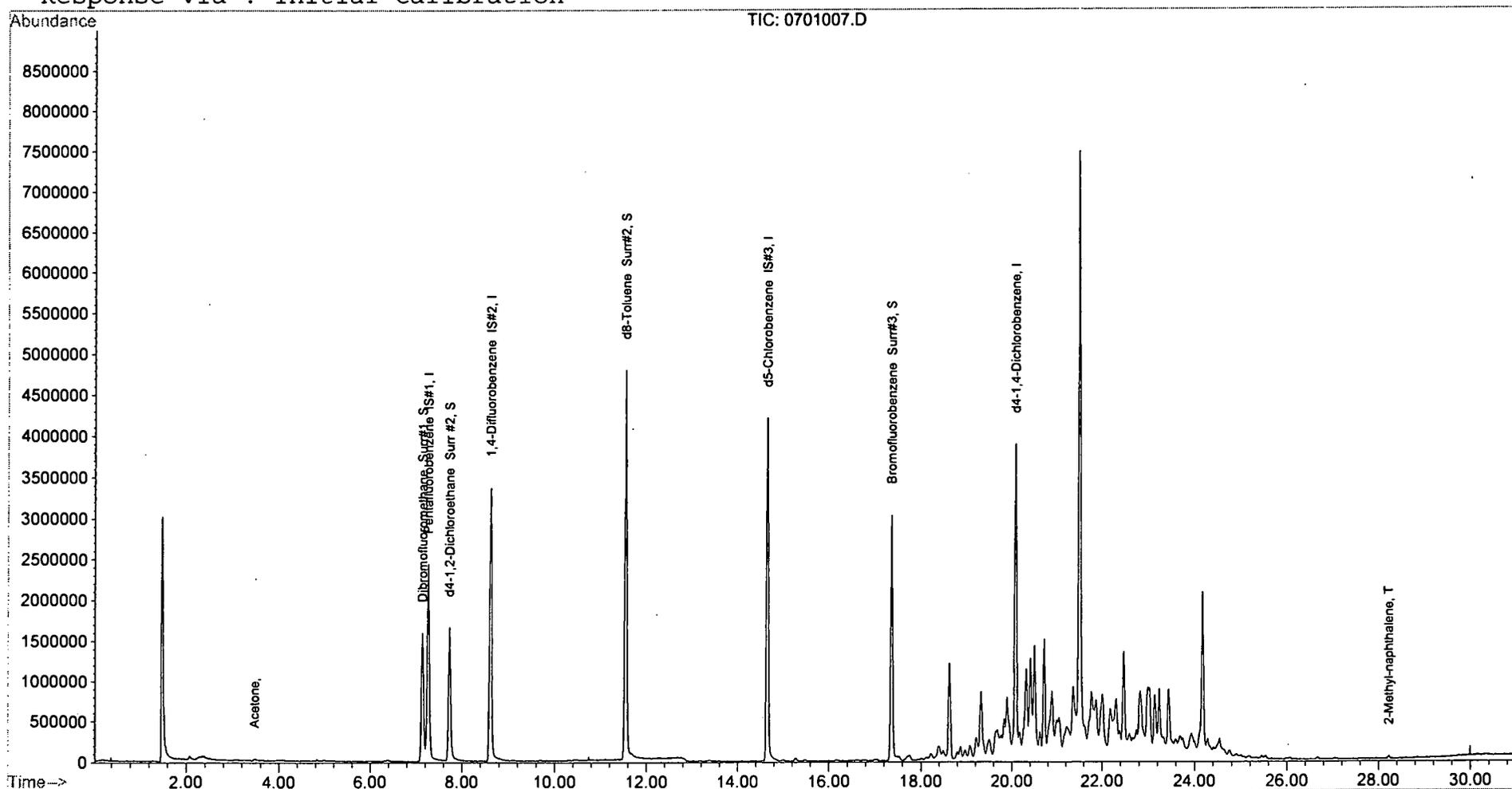
Quantitation Report

Data File : D:\HPCHEM\1\DATA\071001V\0701007.D  
Acq On : 10 Jul 2001 15:45  
Sample : C1F0263-18 OEPA 5mL/1.19g  
Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.005mL  
MS Integration Params: rteint.p  
Quant Time: Jul 10 16:43 19101

Vial: 7  
Operator: DRB  
Inst : GC/MS Ins  
Multiplr: 1.00

Quant Results File: 8260MI.RES

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
Title : Volatile Organics by EPA 8260  
Last Update : Tue Jul 10 13:38:48 2001  
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\071001V\0801008.D  
 Acq On : 10 Jul 2001 16:28  
 Sample : C1F0263-16 OEPA 5mL/1.05g  
 Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.025mL  
 MS Integration Params: rteint.p  
 Quant Time: Jul 11 9:06 19101

Vial: 8  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	7.26	168	2219491	50.00	ug/L	0.00
33) 1,4-Difluorobenzene IS#2	8.61	114	3508526	50.00	ug/L	0.00
53) d5-Chlorobenzene IS#3	14.65	117	3172235	50.00	ug/L	0.00
74) d4-1,4-Dichlorobenzene	20.09	152	1909724	50.00	ug/L	0.01

System Monitoring Compounds

2) Dibromofluoromethane Surr	7.14	113	1392452	45.36	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	90.72%
34) d4-1,2-Dichloroethane Sur	7.73	102	316989	54.97	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	109.94%
5) d8-Toluene Surr#2	11.54	98	3951711	48.60	ug/L	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	97.20%
54) Bromofluorobenzene Surr#3	17.37	95	1800629	53.01	ug/L	0.01
Spiked Amount	50.000	Range	82 - 113	Recovery	=	106.02%

Target Compounds

					Qvalue
12) Acetone	3.56	58	15061m	2.38	ug/L
17) Carbon disulfide	3.60	76	41647	0.68	ug/L 98
20) Hexane	4.96	57	23804m	0.71	ug/L
24) Methyl ethyl ketone	6.36	72	7601m	0.71	ug/L
55) Toluene	11.68	92	167498	3.10	ug/L 91
65) Ethylbenzene	15.00	91	421098	3.93	ug/L 98
67) p,m-Xylenes	15.27	106	607557	15.13	ug/L 100
68) o-Xylene	16.16	106	290996	7.35	ug/L 91
70) Isopropylbenzene	17.04	105	136192	1.31	ug/L 97
75) Propylbenzene	18.01	91	717110	4.99	ug/L 96
79) 1,3,5-Trimethylbenzene	18.46	105	964376	9.97	ug/L 94
83) 1,2,4-Trimethylbenzene	19.32	105	3093484	30.77	ug/L 97
84) sec-Butylbenzenz	19.73	105	336134	2.59	ug/L 95
85) p-Isopropyltoluene	20.11	119	227057	2.14	ug/L 97
88) n-Butylbenzene	21.09	91	1372565	12.12	ug/L # 80
95) Naphthalene	25.46	128	561445	3.70	ug/L 100
97) 2-Methyl-naphthalene	28.23	142	414322m	8.74	ug/L

(#) = qualifier out of range (m) = manual integration

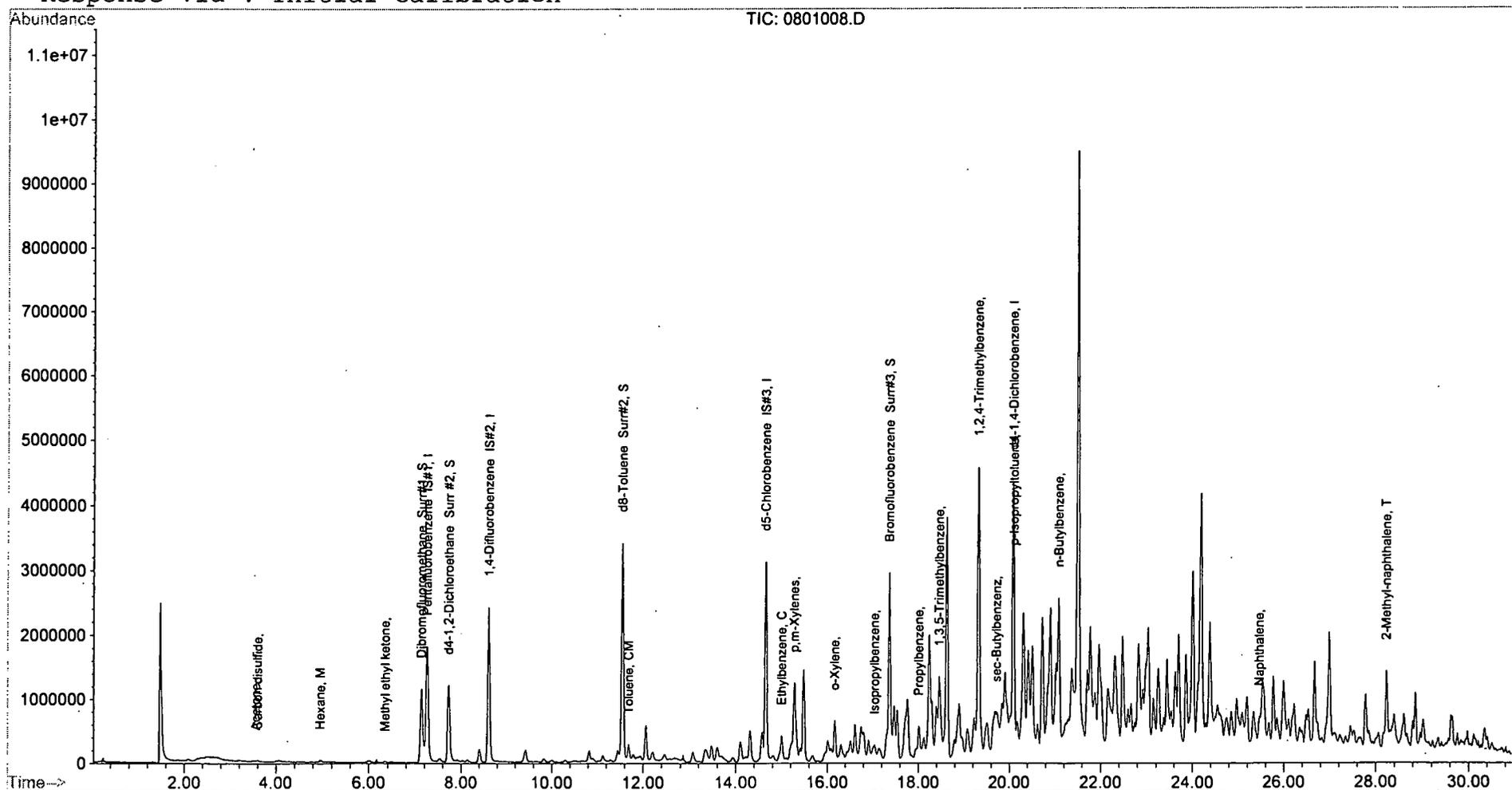
# Quantitation Report

Data File : D:\HPCHEM\1\DATA\071001V\0801008.D  
 Acq On : 10 Jul 2001 16:28  
 Sample : C1F0263-16 OEPA 5mL/1.05g  
 Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.025mL  
 MS Integration Params: rteint.p  
 Quant Time: Jul 11 9:06 19101

Vial: 8  
 Operator: DRB  
 Inst : GC/MS Ins  
 Multiplr: 1.00

Quant Results File: 8260MI.RES

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\071001V\0901009.D Vial: 9  
 Acq On : 10 Jul 2001 17:11 Operator: DRB  
 Sample : C1F0263-16s1 OEPA 5mL/1.05g+50ppb B5P4 Inst : GC/MS Ins  
 Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.025mL Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 11 9:12 19101 Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	7.26	168	2768032	50.00	ug/L	0.00
33) 1,4-Difluorobenzene IS#2	8.61	114	4340971	50.00	ug/L	0.00
53) d5-Chlorobenzene IS#3	14.65	117	3502975	50.00	ug/L	0.00
74) d4-1,4-Dichlorobenzene	20.09	152	2009424	50.00	ug/L	0.01

System Monitoring Compounds

2) Dibromofluoromethane Surr	7.14	113	1612736	42.13	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	84.26%
34) d4-1,2-Dichloroethane Sur	7.73	102	347500	48.70	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.40%
5) d8-Toluene Surr#2	11.55	98	4778174	47.49	ug/L	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	94.98%
54) Bromofluorobenzene Surr#3	17.37	95	1817060	48.44	ug/L	0.01
Spiked Amount	50.000	Range	82 - 113	Recovery	=	96.88%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	1.71	85	1694441m	43.75	ug/L	
4) 2-Nitropropane	10.56	43	1096071	45.83	ug/L	88
5) Chloromethane	1.86	50	1809081	39.96	ug/L	95
6) Vinyl Chloride	2.01	62	1561266m	48.69	ug/L	
7) Bromomethane	2.29	94	255285m	26.38	ug/L	
8) Chloroethane	2.47	64	158496m	16.13	ug/L	
9) Trichlorofluoromethane	2.65	101	599854m	16.33	ug/L	
10) Diethyl ether	3.09	74	441116	36.44	ug/L	90
11) Acrolein	3.26	56	649254	78.76	ug/L	# 100
12) Acetone	3.51	58	369154m	46.82	ug/L	
13) 1,1-Dichloroethene	3.31	96	1016216	48.13	ug/L	96
14) Iodomethane	3.52	142	800147m	40.47	ug/L	
15) Allyl chloride (3-chloro-1	3.86	39	1028053	42.26	ug/L	95
16) Methylene chloride	4.07	84	1093861m	41.61	ug/L	
17) Carbon disulfide	3.60	76	3186721	41.45	ug/L	97
18) Acrylonitrile	4.51	53	1123449	48.02	ug/L	97
9) 2-Methoxy-2-methylpropane	4.58	73	3487056	45.79	ug/L	100
20) Hexane	4.96	57	1652558	39.29	ug/L	93

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\071001V\0901009.D Vial: 9  
 Acq On : 10 Jul 2001 17:11 Operator: DRB  
 Sample : C1F0263-16s1 OEPA 5mL/1.05g+50ppb B5P4 Inst : GC/MS Ins  
 Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.025mL Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 11 9:12 19101 Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
21) trans-1,2-Dichloroethene	4.50	96	1318947	53.48	ug/L	97
22) 1,1-Dichloroethane	5.21	63	2002891m	34.92	ug/L	
23) Vinyl acetate	5.36	43	4016466	41.20	ug/L	99
24) Methyl ethyl ketone	6.34	72	664990	49.70	ug/L	86
25) Propionitrile (Propanenit	6.43	54	818717	52.53	ug/L #	98
26) 2,2-Dichloropropane	6.21	77	1767677	44.97	ug/L	98
27) cis-1,2-Dichloroethene	6.24	96	1760462	47.48	ug/L	94
28) Methyl acrylate	6.51	55	3040054	46.42	ug/L	100
29) Methacrylonitrile	6.68	41	1942100	45.63	ug/L	97
30) 1-Chlorobutane	7.34	56	2974577	46.93	ug/L #	99
31) Bromochloromethane	6.66	128	840250	44.67	ug/L	95
32) Chloroform	6.85	83	2703621	43.94	ug/L	99
36) Tetrahydrofuran	6.80	72	727211	58.10	ug/L #	89
37) 1,1,1-Trichloroethane	7.12	97	2303226	55.24	ug/L #	82
38) 1,1-Dichloropropene	7.43	75	2221049	54.03	ug/L	98
39) Carbon tetrachloride	7.42	117	1877649	52.98	ug/L	97
40) Benzene	7.81	78	5929793	53.70	ug/L	100
41) 1,2-Dichloroethane	7.87	62	2048179	48.76	ug/L	99
42) Trichloroethene	9.08	95	1808286	54.83	ug/L	97
43) 1,2-Dichloropropane	9.50	63	1523888	49.99	ug/L #	97
44) Methyl methacrylate	9.86	69	1823831	52.26	ug/L	98
45) Chloroacetonitrile	11.03	75	2220860	47.12	ug/L	98
46) Bromodichloromethane	10.11	83	1750706	46.26	ug/L	96
48) Dibromomethane	9.74	93	1190173	47.66	ug/L	97
49) 2-Chloroethyl vinyl ether	10.78	63	177111	65.63	ug/L	94
50) 4-Methyl-2-pentanone	11.39	100	472296m	50.34	ug/L	
51) 1,1-Dichloro-2-propanone	11.39	43	6732320	50.71	ug/L	99
52) cis-1,3-Dichloropropene	11.03	75	2220860	47.12	ug/L	96
55) Toluene	11.68	92	3531383	59.11	ug/L	99
56) Ethyl methacrylate	12.50	69	2445249	56.55	ug/L #	99
57) trans-1,3-Dichloropropene	12.22	75	1980595	52.68	ug/L	98
58) 1,1,2-Trichloroethane	12.58	83	1212459	50.45	ug/L	98
59) 2-Hexanone	13.18	43	3651448	57.79	ug/L	98
60) 1,3-Dichloropropane	12.92	76	2435266	52.05	ug/L	99

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\071001V\0901009.D Vial: 9  
 Acq On : 10 Jul 2001 17:11 Operator: DRB  
 Sample : C1F0263-16s1 OEPA 5mL/1.05g+50ppb B5P4 Inst : GC/MS Ins  
 Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.025mL Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 11 9:12 19101 Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
61) Tetrachloroethene	12.85	164	1707020	65.50	ug/L	98
62) Chlorodibromomethane	13.41	129	1496430	50.54	ug/L	97
63) Ethylene dibromide	13.59	107	1726067	52.09	ug/L	98
64) Chlorobenzene	14.71	112	3533635	50.45	ug/L	98
65) Ethylbenzene	15.00	91	6470664	54.65	ug/L	99
66) 1,1,1,2-Tetrachloroethane	14.93	131	1197645	48.91	ug/L	99
67) p,m-Xylenes	15.28	106	5047170	113.84	ug/L	98
68) o-Xylene	16.17	106	2466324	56.40	ug/L	100
69) Styrene	16.21	104	3884503	50.71	ug/L	99
70) Isopropylbenzene	17.05	105	5748761	49.98	ug/L	99
71) Bromoform	16.58	173	1174104	48.21	ug/L	98
72) 1,1,2,2-Tetrachloroethane	17.80	83	2542813	46.80	ug/L	91
73) 1,2,3-Trichloropropane	17.83	75	2163759	48.72	ug/L	97
75) Propylbenzene	18.02	91	7917893	52.36	ug/L	99
76) Bromobenzene	17.66	156	1551434	46.75	ug/L	97
77) 1,4-trans-Dichloro-2-buten	17.92	53	640356	53.33	ug/L #	69
78) 2-Chlorotoluene	18.15	91	4106603	43.59	ug/L	99
79) 1,3,5-Trimethylbenzene	18.46	105	5862413	57.57	ug/L	98
80) 4-Chlorotoluene	18.42	91	4937565	47.22	ug/L	98
81) tert-Butylbenzene	19.20	119	4523593	46.54	ug/L	98
82) Pentachloroethane	21.61	166	561367	55.78	ug/L	96
83) 1,2,4-Trimethylbenzene	19.33	105	8126290	76.81	ug/L	97
84) sec-Butylbenz	19.73	105	7032168	51.55	ug/L	99
85) p-Isopropyltoluene	20.11	119	5527458	49.43	ug/L	99
86) 1,3-Dichlorobenzene	19.92	146	2874925	48.64	ug/L	98
87) 1,4-Dichlorobenzene	20.15	146	2916965	44.96	ug/L	97
88) n-Butylbenzene	21.09	91	6879535	57.73	ug/L	96
89) 1,2-Dichlorobenzene	21.00	146	2711060	43.92	ug/L	98
90) Hexachloroethane	21.62	201	809220	55.70	ug/L	97
91) 1,2-Dibromo-3-chloropropan	22.89	75	733908	41.78	ug/L	94
92) Nitrobenzene	23.38	123	210326	53.23	ug/L	96
93) 1,2,4-Trichlorobenzene	24.92	180	1956607	39.53	ug/L	98
94) Hexachlorobutadiene	25.41	225	980465	42.06	ug/L	98
95) Naphthalene	25.46	128	7500490	47.01	ug/L	100

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\071001V\0901009.D Vial: 9  
 Acq On : 10 Jul 2001 17:11 Operator: DRB  
 Sample : C1F0263-16s1 OEPA 5mL/1.05g+50ppb B5P4 Inst : GC/MS Ins  
 Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.025mL Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 11 9:12 19101 Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

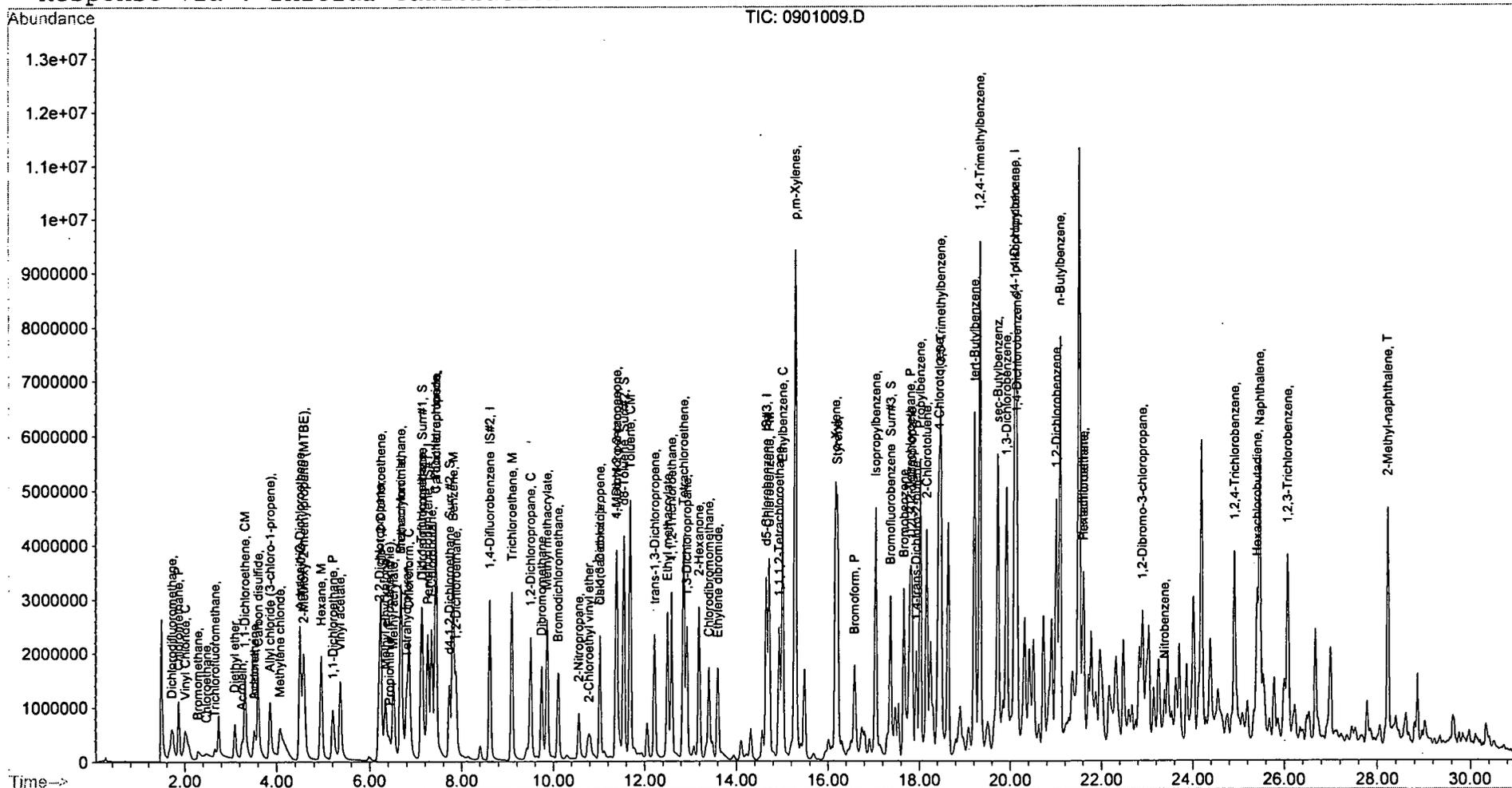
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
96) 1,2,3-Trichlorobenzene	26.07	180	1883753	38.92 ug/L	98
97) 2-Methyl-naphthalene	28.23	142	3077599	61.68 ug/L	99

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 (#) = qualifier out of range (m) = manual integration

Quantitation Report

Data file : D:\HPCHEM\1\DATA\071001V\0901009.D Vial: 9  
 Acq On : 10 Jul 2001 17:11 Operator: DRB  
 Sample : C1F0263-16s1 OEPA 5mL/1.05g+50ppb B5P4 Inst : GC/MS Ins  
 Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.025mL Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 11 9:12 19101 Quant Results File: 8260MI.RES

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\071001V\1001010.D Vial: 10  
 Acq On : 10 Jul 2001 17:54 Operator: DRB  
 Sample : C1F0263-16s2 OEPA 5mL/1.05g+50ppb B5P4 Inst : GC/MS Ins  
 Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.025mL Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 11 9:16 19101 Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	7.26	168	2785433	50.00	ug/L	0.00
33) 1,4-Difluorobenzene IS#2	8.61	114	4477446	50.00	ug/L	0.00
53) d5-Chlorobenzene IS#3	14.65	117	3519283	50.00	ug/L	0.00
74) d4-1,4-Dichlorobenzene	20.09	152	1954747	50.00	ug/L	0.01

System Monitoring Compounds

2) Dibromofluoromethane Surr	7.14	113	1608182	41.75	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	83.50%
34) d4-1,2-Dichloroethane Sur	7.73	102	357517	48.58	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.16%
5) d8-Toluene Surr#2	11.54	98	4901050	47.23	ug/L	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	94.46%
54) Bromofluorobenzene Surr#3	17.37	95	1781542	47.28	ug/L	0.01
Spiked Amount	50.000	Range	82 - 113	Recovery	=	94.56%

Target Compounds

					Qvalue
3) Dichlorodifluoromethane	1.71	85	1653566	42.42	ug/L 100
4) 2-Nitropropane	10.56	43	1083279	45.01	ug/L 99
5) Chloromethane	1.86	50	1715664	37.66	ug/L 98
6) Vinyl Chloride	2.01	62	1501550	46.54	ug/L 100
7) Bromomethane	2.28	94	227035	23.31	ug/L 91
8) Chloroethane	2.47	64	153806m	15.56	ug/L
9) Trichlorofluoromethane	2.65	101	621711m	16.81	ug/L
10) Diethyl ether	3.10	74	471905	38.74	ug/L 92
11) Acrolein	3.26	56	654916	78.95	ug/L # 92
12) Acetone	3.51	58	353635	44.57	ug/L 93
13) 1,1-Dichloroethene	3.32	96	1087301	51.18	ug/L 98
14) Iodomethane	3.53	142	944007m	47.45	ug/L
15) Allyl chloride (3-chloro-1	3.86	39	1003346	40.99	ug/L 98
16) Methylene chloride	4.06	84	1110096m	41.96	ug/L
17) Carbon disulfide	3.60	76	3187890	41.20	ug/L 99
18) Acrylonitrile	4.50	53	1135493	48.24	ug/L 99
19) 2-Methoxy-2-methylpropane	4.58	73	3629083	47.35	ug/L 98
20) Hexane	4.96	57	1603540	37.89	ug/L 98

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\071001V\1001010.D Vial: 10  
 Acq On : 10 Jul 2001 17:54 Operator: DRB  
 Sample : C1F0263-16s2 OEPA 5mL/1.05g+50ppb B5P4 Inst : GC/MS Ins  
 Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.025mL Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 11 9:16 19101 Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
21) trans-1,2-Dichloroethene	4.50	96	1334661	53.78	ug/L	96
22) 1,1-Dichloroethane	5.21	63	2389246	41.39	ug/L	96
23) Vinyl acetate	5.37	43	4329842	44.13	ug/L	100
24) Methyl ethyl ketone	6.33	72	641111	47.62	ug/L	99
25) Propionitrile (Propanenit	6.42	54	774786	49.40	ug/L #	96
26) 2,2-Dichloropropane	6.21	77	1800759	45.53	ug/L	99
27) cis-1,2-Dichloroethene	6.24	96	1778087	47.65	ug/L	97
28) Methyl acrylate	6.52	55	3087077	46.85	ug/L	100
29) Methacrylonitrile	6.68	41	1945980	45.44	ug/L	98
0) 1-Chlorobutane	7.34	56	3056934	47.93	ug/L #	99
1) Bromochloromethane	6.67	128	862912	45.59	ug/L	93
32) Chloroform	6.85	83	2723798	43.99	ug/L	100
36) Tetrahydrofuran	6.80	72	706824	54.75	ug/L #	84
37) 1,1,1-Trichloroethane	7.13	97	2370179	55.12	ug/L #	92
38) 1,1-Dichloropropene	7.44	75	2264476	53.41	ug/L	100
39) Carbon tetrachloride	7.43	117	1947068	53.26	ug/L	94
40) Benzene	7.81	78	6042858	53.06	ug/L	100
41) 1,2-Dichloroethane	7.87	62	2094551	48.35	ug/L	100
42) Trichloroethene	9.08	95	1805739	53.09	ug/L	96
43) 1,2-Dichloropropane	9.50	63	1565013	49.78	ug/L	99
44) Methyl methacrylate	9.86	69	1799247	49.99	ug/L	98
45) Chloroacetonitrile	11.02	75	2193514	45.12	ug/L	98
46) Bromodichloromethane	10.11	83	1765690	45.23	ug/L	99
48) Dibromomethane	9.74	93	1170949	45.46	ug/L	94
49) 2-Chloroethyl vinyl ether	10.78	63	172489	61.97	ug/L	93
50) 4-Methyl-2-pentanone	11.38	100	472097m	48.78	ug/L	
51) 1,1-Dichloro-2-propanone	11.38	43	6716301	49.05	ug/L	99
52) cis-1,3-Dichloropropene	11.02	75	2193514	45.12	ug/L	97
55) Toluene	11.68	92	3730388	62.15	ug/L	100
56) Ethyl methacrylate	12.50	69	2495401	57.44	ug/L #	96
57) trans-1,3-Dichloropropene	12.22	75	1947869	51.57	ug/L	96
58) 1,1,2-Trichloroethane	12.58	83	1211818	50.19	ug/L	97
9) 2-Hexanone	13.18	43	3590583	56.56	ug/L	97
00) 1,3-Dichloropropane	12.92	76	2495265	53.09	ug/L	99

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\071001V\1001010.D Vial: 10  
 Acq On : 10 Jul 2001 17:54 Operator: DRB  
 Sample : C1F0263-16s2 OEPA 5mL/1.05g+50ppb B5P4 Inst : GC/MS Ins  
 Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.025mL Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 11 9:16 19101 Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
61) Tetrachloroethene	12.85	164	1664661	63.58	ug/L	97
62) Chlorodibromomethane	13.41	129	1452275	48.82	ug/L	98
63) Ethylene dibromide	13.59	107	1719351	51.65	ug/L	99
64) Chlorobenzene	14.71	112	3570442	50.73	ug/L	99
65) Ethylbenzene	15.01	91	6707968	56.40	ug/L	99
66) 1,1,1,2-Tetrachloroethane	14.93	131	1180966	48.01	ug/L	97
67) p,m-Xylenes	15.28	106	5164636	115.95	ug/L	96
68) o-Xylene	16.17	106	2409063	54.84	ug/L	98
69) Styrene	16.21	104	3800285	49.38	ug/L	99
70) Isopropylbenzene	17.05	105	5696917	49.30	ug/L	99
1) Bromoform	16.59	173	1129428	46.16	ug/L	97
72) 1,1,2,2-Tetrachloroethane	17.80	83	2657760	48.69	ug/L	98
73) 1,2,3-Trichloropropane	17.83	75	2109688	47.28	ug/L	100
75) Propylbenzene	18.01	91	7723161	52.50	ug/L	99
76) Bromobenzene	17.66	156	1504473	46.61	ug/L	97
77) 1,4-trans-Dichloro-2-buten	17.93	53	613921	52.56	ug/L #	89
78) 2-Chlorotoluene	18.16	91	4114722	44.89	ug/L	99
79) 1,3,5-Trimethylbenzene	18.46	105	5809876	58.65	ug/L	97
80) 4-Chlorotoluene	18.42	91	4855160	47.73	ug/L	99
81) tert-Butylbenzene	19.20	119	4430377	46.86	ug/L	99
82) Pentachloroethane	21.60	166	551694	56.35	ug/L #	93
83) 1,2,4-Trimethylbenzene	19.33	105	8095406	78.66	ug/L	98
84) sec-Butylbenzenz	19.73	105	6827703	51.45	ug/L	99
85) p-Isopropyltoluene	20.11	119	5550172	51.03	ug/L	99
86) 1,3-Dichlorobenzene	19.92	146	2851027	49.59	ug/L	99
87) 1,4-Dichlorobenzene	20.15	146	2891320	45.81	ug/L	97
88) n-Butylbenzene	21.09	91	6815302	58.79	ug/L	97
89) 1,2-Dichlorobenzene	21.00	146	2684033	44.70	ug/L	98
90) Hexachloroethane	21.61	201	801282	56.70	ug/L	96
91) 1,2-Dibromo-3-chloropropan	22.89	75	723578	42.34	ug/L	89
92) Nitrobenzene	23.38	123	181598	47.25	ug/L	95
93) 1,2,4-Trichlorobenzene	24.91	180	1916163	39.80	ug/L	97
94) Hexachlorobutadiene	25.41	225	960539	42.36	ug/L	96
95) Naphthalene	25.46	128	7357573	47.41	ug/L	100

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\071001V\1001010.D Vial: 10  
 Acq On : 10 Jul 2001 17:54 Operator: DRB  
 Sample : C1F0263-16s2 OEPA 5mL/1.05g+50ppb B5P4 Inst : GC/MS Ins  
 Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.025mL Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 11 9:16 19101 Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
96) 1,2,3-Trichlorobenzene	26.07	180	1837894	39.03 ug/L	97
97) 2-Methyl-naphthalene	28.23	142	3041126	62.65 ug/L	99

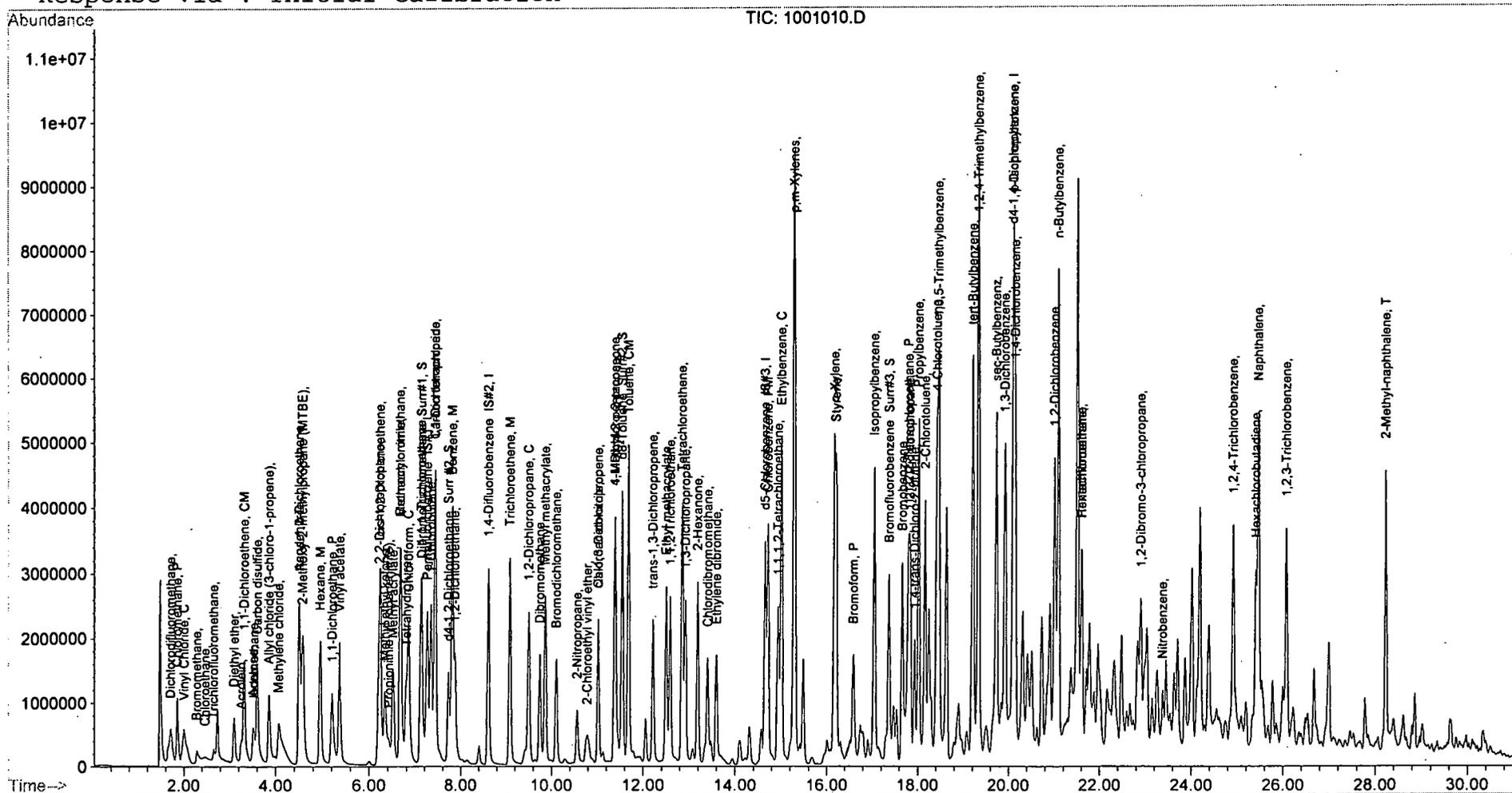
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 (#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\071001V\1001010.D Vial: 10  
 Acq On : 10 Jul 2001 17:54 Operator: DRB  
 Sample : C1F0263-16s2 OEPA 5mL/1.05g+50ppb B5P4 Inst : GC/MS Ins  
 Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.025mL Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 11 9:16 19101

Quant Results File: 8260MI.RES

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\071001V\1101011.D Vial: 11  
 Acq On : 10 Jul 2001 18:37 Operator: DRB  
 Sample : C1F0263-18 OEPA 5mL/1.19g Inst : GC/MS Ins  
 Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.005mL Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 11 9:19 19101 Quant Results File: 8260MI.RES

Quant Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
 Title : Volatile Organics by EPA 8260  
 Last Update : Tue Jul 10 13:38:48 2001  
 Response via : Initial Calibration  
 DataAcq Meth : 8260MI

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene IS#1	7.27	168	2698533	50.00	ug/L	0.00
33) 1,4-Difluorobenzene IS#2	8.62	114	4468626	50.00	ug/L	0.00
53) d5-Chlorobenzene IS#3	14.65	117	3520332	50.00	ug/L	0.00
74) d4-1,4-Dichlorobenzene	20.08	152	1902149	50.00	ug/L	0.00

System Monitoring Compounds

2) Dibromofluoromethane Surr	7.14	113	1552493	41.60	ug/L	0.00
Spiked Amount	50.000	Range	79 - 120	Recovery	=	83.20%
34) d4-1,2-Dichloroethane Sur	7.73	102	364454	49.62	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.24%
5) d8-Toluene Surr#2	11.55	98	4844196	46.77	ug/L	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	93.54%
54) Bromofluorobenzene Surr#3	17.37	95	1620667	42.99	ug/L	0.00
Spiked Amount	50.000	Range	82 - 113	Recovery	=	85.98%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
12) Acetone	3.47	58	14112m	1.84	ug/L	
67) p,m-Xylenes	15.28	106	25550	0.57	ug/L	93
88) n-Butylbenzene	21.09	91	65720m	0.58	ug/L	
92) Nitrobenzene	23.38	123	6087	1.63	ug/L #	34
93) 1,2,4-Trichlorobenzene	24.91	180	32083	0.68	ug/L #	82
95) Naphthalene	25.45	128	162057m	1.07	ug/L	
96) 1,2,3-Trichlorobenzene	26.07	180	26377	0.58	ug/L #	81
97) 2-Methyl-naphthalene	28.23	142	96468	2.04	ug/L	94



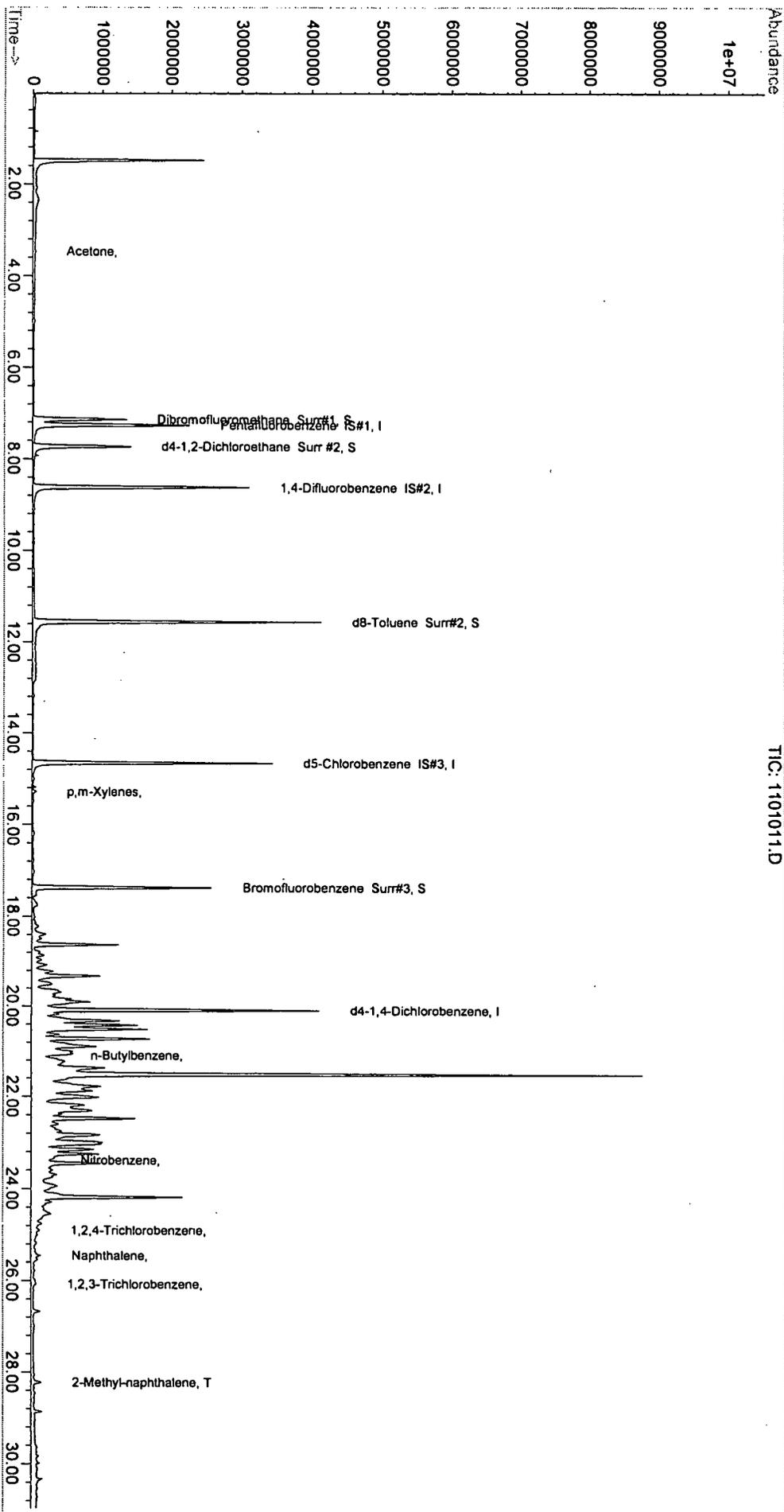
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\071001V\1101011.D  
Acq On : 10 Jul 2001 18:37  
Sample : C1F0263-18 OEPA 5mL/1.19g  
Misc : 1mL/0.1mL 1mL/0.1mL 5mL/0.005mL  
MS Integration Params: rteint.p  
Quant Time: Jul 11 9:19 19101

Vial: 11  
Operator: DRB  
Inst : GC/MS Ins  
Multiplr: 1.00  
Quant Results File: 8260MI.RE5

Method : C:\HPCHEM\1\METHODS\8260MI.M (RTE Integrator)  
Title : Volatile Organics by EPA 8260  
Last Update : Tue Jul 10 13:38:48 2001  
Response via : Initial Calibration



Method: METALS Standard: BLANK

Time: 07/10/01 13:47:49

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Avg	.0104	.0073	-.0020	-.0004	.0022	.0004	-.0002
SDev	.0003	.0013	.0071	.0000	.0003	.0000	.0011
%RSD	2.720	17.44	353.6	.0000	12.86	.0000	565.7
#1	.0106	.0082	-.0070	-.0004	.0024	.0004	.0006
#2	.0102	.0064	.0030	-.0004	.0020	.0004	-.0010
Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Avg	.0004	.0038	.0019	-.0002	.0096	.0034	.0021
SDev	.0000	.0008	.0001	.0006	.0028	.0014	.0001
%RSD	.0000	22.33	7.443	282.8	29.46	41.59	6.734
#1	.0004	.0032	.0018	-.0006	.0116	.0044	.0020
#2	.0004	.0044	.0020	.0002	.0076	.0024	.0022
Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Avg	.2299	-.0032	-.0083	.0016	.0068	.0006	-.0012
SDev	.0010	.0028	.0115	.0286	.0102	.0065	.0017
%RSD	.4306	88.39	138.0	1785.	149.7	1084.	141.4
#1	.2306	-.0012	-.0164	-.0186	-.0004	.0052	.0000
#2	.2292	-.0052	-.0002	.0218	.0140	-.0040	-.0024
Elem	Zn2138						
Avg	.0017						
SDev	.0007						
%RSD	41.59						
#1	.0012						
#2	.0022						

Method: METALS Standard: STD1

F Time: 07/10/01 13:53:32

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Avge	.6943	2.141	.9538	.5284	3.801	1.633	.9687
SDev	.0047	.018	.0042	.0048	.023	.003	.0066
%RSD	.6722	.8259	.4448	.9100	.6064	.1559	.6862
#1	.6976	2.153	.9568	.5318	3.818	1.635	.9734
#2	.6910	2.128	.9508	.5250	3.785	1.631	.9640
Elem	Cr2677	Cu3247	Mn2576	Ni2316	Pb2203	Sb2068	Se1960
Avge	.6973	.3515	.4426	1.414	1.153	.7021	.6637
SDev	.0027	.0010	.0026	.013	.037	.0010	.0188
%RSD	.3853	.2816	.5751	.9404	3.202	.1410	2.834
#1	.6954	.3522	.4444	1.404	1.179	.7028	.6770
#2	.6992	.3508	.4408	1.423	1.127	.7014	.6504
Elem	Tl1908	V_2924	Zn2138				
Avge	.3574	1.656	1.318				
SDev	.0113	.010	.006				
%RSD	3.166	.6321	.4293				
#1	.3654	1.663	1.322				
#2	.3494	1.648	1.314				

Method: METALS Standard: STD2  
Run Time: 07/10/01 13:59:05

---m	Ca3179	Fe2599	K_7664	Mg2790	Na5889
Avge	1.176	6.419	.2036	.9742	2.137
SDev	.001	.014	.0006	.0054	.007
%RSD	.0842	.2203	.2778	.5516	.3309
#1	1.177	6.429	.2032	.9780	2.142
#2	1.175	6.409	.2040	.9704	2.132

Method: METALS

Slope = Conc(SIR)/IR

Element	Wavelength	High std	Low std	Slope	Y-intercept	Date Standardized
Zn_80	328.000	STD1	BLANK	1.46097	-.015194	07/10/01 01:59:05
Al3082	308.200	STD1	BLANK	4.69385	-.034265	07/10/01 01:59:05
As1936	193.600	STD1	BLANK	1.09040	.002181	07/10/01 01:59:05
Ba4934	493.400	STD1	BLANK	1.89107	.000756	07/10/01 01:59:05
Be3130	313.040	STD1	BLANK	.263665	-.000580	07/10/01 01:59:05
Ca3179	317.900	STD2	BLANK	8.50557	-.003402	07/10/01 01:59:05
Cd2265	226.500	STD1	BLANK	.612370	.000122	07/10/01 01:59:05
Co2286	228.600	STD1	BLANK	1.03431	-.000414	07/10/01 01:59:05
Cr2677	267.700	STD1	BLANK	1.45040	-.005512	07/10/01 01:59:05
Cu3247	324.700	STD1	BLANK	2.86041	-.005435	07/10/01 01:59:05
Fe2599	259.940	STD2	BLANK	1.55787	.000312	07/10/01 01:59:05
K_7664	766.400	STD2	BLANK	51.5464	-.494845	07/10/01 01:59:05
Mg2790	279.000	STD2	BLANK	10.3008	-.035023	07/10/01 01:59:05
Mn2576	257.600	STD1	BLANK	2.27015	-.004767	07/10/01 01:59:05
Na5889	588.900	STD2	BLANK	5.24411	-1.20562	07/10/01 01:59:05
Ni2316	231.600	STD1	BLANK	.707237	.002263	07/10/01 01:59:05
Pb2203	220.300	STD1	BLANK	.866663	.007193	07/10/01 01:59:05
Sb2068	206.800	STD1	BLANK	1.42422	-.002279	07/10/01 01:59:05
Se1960	196.000	STD1	BLANK	1.52230	-.010352	07/10/01 01:59:05
Tl1908	190.800	STD1	BLANK	2.80734	-.001684	07/10/01 01:59:05
V_2924	292.400	STD1	BLANK	.601491	.000722	07/10/01 01:59:05
Zn2138	213.800	STD1	BLANK	.763968	-.001299	07/10/01 01:59:05

Method: METALS Sample Name: icb

Operator: eaj

Run Time: 07/10/01 14:03:36

Element:

Unit: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0002945	L.0131050	L.0036464	L-.000378	L.0001541	L.0034022	L.0016533
SDev	.0008269	.0059576	.0015622	.000535	.0000013	.0048115	.0021647
%RSD	280.7675	45.46068	42.84335	141.4214	.8186994	141.4214	130.9304

#1	L.0008792	L.0088923	L.0047510	L-.000000	L.0001549	L.0068045	L.0031840
#2	L-.000290	L.0173177	L.0025417	L-.000756	L.0001532	L-.000000	L.0001226

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0008244	L-.001754	L-.002002	L.0004717	L.0567010	L.0020647	L.0004540
SDev	.0011670	.005337	.004045	.0024204	.0656078	.0116536	.0003214
%RSD	141.5520	304.1857	202.0305	513.0851	115.7084	564.4277	70.79744

#1	L.0016496	L.0020192	L.0008581	L.0021832	L.0103093	L.0103050	L.0002267
#2	L-.000001	L-.005528	L-.004863	L-.001240	L.1030927	L-.006176	L.0006812

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0200000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0094393	L.0080717	L.0271955	L.0147722	L-.033488	-.021346	L.0024601
SDev	.0037082	.0015974	.0447313	.0135352	.001306	.002376	.0007472
%RSD	39.28408	19.78967	164.4804	91.62589	3.898452	11.13251	30.37186

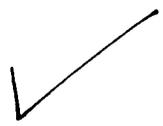
#1	L.0120614	L.0092012	L-.004434	L.0052014	L-.032565	-.019665	L.0019317
#2	L.0068173	L.0069422	L.0588253	L.0243431	L-.034411	-.023026	L.0029884

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	NOCHECK	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000		100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000		.0100000

Elem	Zn2138
Units	ppm
Avg	L-.000102
SDev	.000850
%RSD	836.7138

#1	L.0004997
#2	L-.000703

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: icv

Operator: eaj

Run Time: 07/10/01 14:09:18

Element:

Unit: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9929230	1.016059	1.000780	.9971635	.9827431	1.021519	.9958825
SDev	.0028975	.009889	.007003	.0082905	.0082704	.001203	.0096134
%RSD	.2918164	.9732531	.6997156	.8314121	.8415662	.1177532	.9653148

#1	.9908741	1.009067	1.005732	.9913012	.9768950	1.022370	1.002680
#2	.9949718	1.023052	.9958285	1.003026	.9885912	1.020668	.9890848

Errors	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value	1.000000	1.000000	1.000000		1.000000	1.000000	1.000000
Range	10.00000	10.00000	10.00000		10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9892484	1.027732	.9756866	.9791847	9.644330	.9595411	.9933881
SDev	.0013196	.003506	.0032362	.0035652	.021869	.0057828	.0041738
%RSD	.1333917	.3411670	.3316805	.3640990	.2267566	.6026632	.4201583

#1	.9883153	1.030211	.9733982	.9766637	9.659794	.9636301	.9904368
#2	.9901815	1.025252	.9779748	.9817057	9.628866	.9554520	.9963394

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000000	1.000000	1.000000	1.000000	10.00000	1.000000	1.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9691122	.9749852	.9694971	1.027882	.9483429	.9899309	.9921560
SDev	.0274402	.0005981	.0208411	.024422	.0019173	.0000073	.0044113
%RSD	2.831479	.0613451	2.149687	2.375946	.2021695	.0007366	.4446133

#1	.9885154	.9745624	.9842340	1.010613	.9496986	.9899257	.9890367
#2	.9497091	.9754082	.9547602	1.045151	.9469871	.9899360	.9952752

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avge	.9924466
SDev	.0028170
%RSD	.2838451

#1	.9944385
#2	.9904547

Errors	QC Pass
Value	1.000000
Range	10.00000



Method: METALS Sample Name: icsa

Operator: eaj

Run Time: 07/10/01 14:15:00

Concentration:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007287	488.6323	.0594692	-.000756	.0000273	477.7290	.0053835
SDev	.000749	1.6609	.0613278	.000000	.0000360	.9238	.0006176
%RSD	10.27308	.3399050	103.1254	.0000000	132.0235	.1933788	11.47169

#1	-.006758	487.4578	.1028345	-.000756	.0000527	477.0758	.0058202
#2	-.007817	489.8067	.0161039	-.000756	.0000018	478.3823	.0049468

Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value		500.0000				500.0000	
Range		20.00000				20.00000	

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000210	.0055803	.0037185	175.8760	.0206185	505.0165	-.015150
SDev	.000289	.0041904	.0016181	.6997	.0291590	1.5471	.000275
%RSD	137.3469	75.09340	43.51427	.3978524	141.4214	.3063418	1.812712

#1	-.000006	.0085433	.0048627	175.3812	-.000000	503.9226	-.015345
#2	-.000414	.0026172	.0025744	176.3708	.0412371	506.1104	-.014956

Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value				200.0000		500.0000	
Range				20.00000		20.00000	

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.033038	-.002602	.0060401	.0296764	.0748024	-.029529	-.000522
SDev	.004450	.007905	.0049912	.0207774	.0190585	.009060	.000780
%RSD	13.46857	303.8158	82.63497	70.01311	25.47848	30.68179	149.4029

#1	-.036184	.0029880	.0095694	.0443683	.0613260	-.035936	.0000295
#2	-.029892	-.008192	.0025108	.0149846	.0882788	-.023123	-.001074

Errors	NOCHECK						
Value							
Range							

Elem	Zn2138
Units	ppm
Avg	.0028953
SDev	.0009119
%RSD	31.49569

#1	.0035401
#2	.0022505

Errors	NOCHECK
Value	
Range	



Method: METALS Sample Name: icsab  
 F Time: 07/10/01 14:20:42  
 C ent:  
 Mode: CONC Corr. Factor: 1

Operator: eaj

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9683317	492.2203	.9937436	.4877081	.4619469	484.8303	.9053947
SDev	.0040821	.8544	.0680111	.0008023	.0011983	.9587	.0010642
%RSD	.4215635	.1735777	6.843929	.1645100	.2593971	.1977345	.1175408

#1	.9712182	491.6161	.9456525	.4882754	.4610996	485.5082	.9061472
#2	.9654452	492.8244	1.041835	.4871407	.4627942	484.1524	.9046422

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000000	500.0000	1.000000	.5000000	.5000000	500.0000	1.000000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4433304	.4820904	.4862700	177.1077	.0309278	508.3636	.4430919
SDev	.0007273	.0050774	.0004045	.1789	.1166362	.6162	.0000185
%RSD	.1640458	1.053207	.0831895	.1010193	377.1238	.1212155	.0041710

#1	.4438447	.4856806	.4865561	176.9812	.1134021	507.9279	.4431049
#2	.4428162	.4785001	.4859840	177.2342	-.051546	508.7994	.4430788

Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.5000000	.5000000	.5000000	200.0000		500.0000	.5000000
Range	20.00000	20.00000	20.00000	20.00000		20.00000	20.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9659657	.8725842	.9340057	1.024148	1.060815	.9427323	.4647509
SDev	.0007417	.0061813	.0307625	.021558	.039987	.0384961	.0029947
%RSD	.0767789	.7083852	3.293607	2.104930	3.769426	4.083463	.6443716

#1	.9654413	.8769550	.9557581	1.039392	1.032541	.9699532	.4668685
#2	.9664902	.8682134	.9122534	1.008905	1.089090	.9155115	.4626333

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	.5000000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	Zn2138
Units	ppm
Avge	.9515058
SDev	.0032497
%RSD	.3415314

#1	.9538037
#2	.9492079

Errors	QC Pass
Value	1.000000
Range	20.00000



Method: METALS Sample Name: ccb

Operator: eaj

Run Time: 07/10/01 14:26:24

Unit: mg/L

Report: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0014639	L.0319086	L.0023954	L-.000000	L-.000001	L.0136089	L.0012852
SDev	.0016491	.0032904	.0025968	.001070	.000072	.0144344	.0021642
%RSD	112.6517	10.31184	108.4036	3676e6	5987.395	106.0660	168.3936

#1	L.0026300	L.0295820	L.0005593	L-.000756	L-.000052	L.0034022	L-.000245
#2	L.0002978	L.0342353	L.0042316	L.0007564	L.0000497	L.0238156	L.0028156

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0006204	L-.002759	L-.001430	L.0053033	L.0824742	L.0133965	L.0006806
SDev	.0008779	.001017	.001618	.0057282	.0145795	.0189366	.0000006
%RSD	141.4909	36.87179	113.1371	108.0120	17.67769	141.3549	.0834861

#1	L.0012412	L-.003479	L-.002574	L.0012529	L.0927835	L.0000063	L.0006810
#2	L-.000000	L-.002040	L-.000286	L.0093538	L.0721649	L.0267867	L.0006802

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0104882	L.0000548	L.0100315	L.0030251	L-.011844	L.0305991	L.0007123
SDev	.0007416	.0053053	.0006151	.0071168	.023649	.0115126	.0015347
%RSD	7.070696	9673.114	6.132100	235.2595	199.6737	37.62399	215.4591

#1	L.0110126	L.0038062	L.0095965	L.0080574	L.0048785	L.0224585	L-.000373
#2	L.0099638	L-.003697	L.0104664	L-.002007	L-.028566	L.0387397	L.0017974

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avg	L-.001068
SDev	.001173
%RSD	109.9010

#1	L-.000238
#2	L-.001898

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv

Operator: eaj

Run Time: 07/10/01 14:32:05

ment:

: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.996815	2.010775	2.005989	2.019856	1.989350	2.063452	1.987478
SDev	.012206	.027695	.010432	.018988	.013549	.007217	.004328
%RSD	.6112850	1.377352	.5200562	.9400750	.6810952	.3497566	.2177876

#1	2.005446	2.030359	2.013366	2.033283	1.998931	2.068555	1.990539
#2	1.988184	1.991191	1.998612	2.006430	1.979769	2.058348	1.984418

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.982943	2.066265	1.968822	1.956635	19.42784	1.930555	2.000851
SDev	.012128	.010796	.015372	.012446	.26972	.001340	.011237
%RSD	.6116253	.5224804	.7807657	.6360858	1.388315	.0694153	.5616038

#1	1.991518	2.073899	1.979691	1.965436	19.61856	1.929607	2.008796
#2	1.974366	2.058631	1.957952	1.947835	19.23712	1.931503	1.992905

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.958676	1.925551	1.937402	2.040747	2.015720	2.006839	1.998665
SDev	.043015	.000843	.035303	.013427	.031933	.080165	.013818
%RSD	2.196104	.0437589	1.822180	.6579276	1.584210	3.994595	.6913411

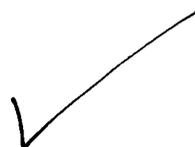
#1	1.989092	1.926147	1.962365	2.050241	2.038300	2.063524	2.008435
#2	1.928261	1.924955	1.912439	2.031253	1.993140	1.950154	1.988894

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avge	1.989607
SDev	.024818
%RSD	1.247369

#1	2.007156
#2	1.972058

Errors	QC Pass
Value	2.000000
Range	10.00000



Method: METALS Sample Name: 7-6 tclp blk Operator: EAJ  
 Run Time: 07/10/01 14:37:48  
 Comment:  
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0152187	.0013834	.0072908	-.000378	.0000236	1.023220	.0009171
SDev	.0033030	.0093415	.0087713	.000535	.0000329	.001203	.0012993
%RSD	21.70351	675.2790	120.3063	141.4214	139.0031	.1175656	141.6771

#1	.0175543	.0079888	.0134930	-.000000	.0000004	1.022370	.0018358
#2	.0128832	-.005222	.0010886	-.000756	.0000469	1.024071	-.000002

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005157	-.004504	-.000858	.0104399	.0515464	.0082430	.0002268
SDev	.0013137	.006782	.001618	.0019890	.0728976	.0116516	.0006424
%RSD	254.7409	150.5879	188.5618	19.05217	141.4214	141.3526	283.3055

#1	.0014447	.0002919	.0002860	.0090335	.1030927	.0164819	-.000228
#2	-.000413	-.009300	-.002002	.0118464	-.000000	.0000040	.0006810

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0996381	.0064301	.0089188	-.010565	-.010292	.0100995	.0016085
SDev	.0051914	.0006923	.0208409	.002956	.006039	.0119084	.0026136
%RSD	5.210241	10.76672	233.6735	27.97976	58.67917	117.9112	162.4865

#1	.0959672	.0069197	-.005818	-.008475	-.014563	.0185200	-.000240
#2	.1033090	.0059406	.0236555	-.012655	-.006022	.0016790	.0034566

Elem	Zn2138
Units	ppm
Avge	.0737011
SDev	.0015187
%RSD	2.060612

#1	.0726272
#2	.0747749

Method: METALS      Sample Name: 7-6 blk 2      Operator: EAJ  
 Run Time: 07/10/01 14:43:30  
 Element:  
 Mode: CONC      Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016232	.0220333	.0001280	.0005673	.0000497	.5579655	.0015907
SDev	.0010303	.0079286	.0138263	.0002674	.0000043	.0048114	.0024247
%RSD	63.46955	35.98454	10801.26	47.14045	8.705079	.8623189	152.4343

#1	.0023518	.0164270	-.009649	.0003782	.0000527	.5545633	-.000124
#2	.0008947	.0276397	.0099047	.0007564	.0000466	.5613677	.0033052

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006206	-.000734	.0005721	.0107537	.1237113	.0195755	.0004534
SDev	.0014625	.006754	.0020226	.0011047	.1020566	.0131151	.0003207
%RSD	235.6750	920.1887	353.5535	10.27247	82.49583	66.99725	70.71558

#1	-.000414	-.005510	-.000858	.0099726	.0515463	.0103018	.0002267
#2	.0016547	.0040420	.0020023	.0115348	.1958762	.0288493	.0006802

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1248099	-.002987	-.001571	-.005004	-.004962	.0319971	.0018019
SDev	.0155743	.008782	.010916	.018084	.009251	.0452748	.0025752
%RSD	12.47839	294.0035	694.8920	361.4171	186.4257	141.4964	142.9128

#1	.1137972	.0032227	-.009290	.0077836	.0015792	.0640113	-.000019
#2	.1358225	-.009197	.0061481	-.017791	-.011504	-.000017	.0036229

Elem	Zn2138
Units	ppm
Avge	.1289663
SDev	.0020798
%RSD	1.612701

#1	.1274956
#2	.1304370

Method: METALS Sample Name: 7-6 blkspk  
 Run Time: 07/10/01 14:49:11  
 Element:  
 Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9319107	9.140944	.9369654	.9222769	.9126642	9.545803	.9233351
SDev	.0031123	.048405	.0071366	.0040115	.0019330	.010827	.0061451
%RSD	.3339689	.5295384	.7616716	.4349602	.2117954	.1134182	.6655324

#1	.9341114	9.175172	.9319190	.9251135	.9140310	9.553458	.9276804
#2	.9297100	9.106717	.9420117	.9194403	.9112974	9.538147	.9189899

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9077576	.9437677	.9067506	9.157745	9.051547	9.009870	.9155072
SDev	.0017462	.0000182	.0012136	.026674	.000000	.037893	.0016041
%RSD	.1923626	.0019292	.1338380	.2912714	.0000000	.4205726	.1752107

#1	.9089924	.9437549	.9076087	9.176607	9.051547	9.036665	.9166415
#2	.9065229	.9437806	.9058924	9.138884	9.051547	8.983076	.9143730

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.095391	.8948498	.9114646	.9368677	.9121474	.9661673	.9278677
SDev	.080838	.0121270	.0227208	.0075789	.0128539	.0559901	.0035726
%RSD	.8887834	1.355195	2.492776	.8089649	1.409191	5.795069	.3850355

#1	9.152553	.9034248	.8953986	.9422268	.9212365	.9265764	.9303939
#2	9.038230	.8862747	.9275307	.9315085	.9030584	1.005758	.9253414

Elem	Zn2138
Units	ppm
Avge	.9360715
SDev	.0062188
%RSD	.6643475

#1	.9404689
#2	.9316742

Method: METALS Sample Name: 7-6 blkspk 2 Operator: EAJ

Run Time: 07/10/01 14:54:53

Unit:

Unit: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.6151738	9.771524	1.001470	.9784418	.9629268	10.38020	.9750541
SDev	.0014369	.034517	.016217	.0005349	.0005954	.02646	.0047601
%RSD	.2335851	.3532364	1.619363	.0546671	.0618288	.2549421	.4881890

#1	.6141577	9.795932	1.012937	.9788200	.9633478	10.39891	.9784201
#2	.6161899	9.747118	.9900023	.9780636	.9625058	10.36149	.9716883

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9660102	1.000371	.9596682	9.782557	9.814434	9.605825	.9747402
SDev	.0032097	.000003	.0000000	.021622	.145795	.037903	.0032094
%RSD	.3322673	.0002949	.0000000	.2210296	1.485517	.3945852	.3292524

#1	.9682798	1.000369	.9596682	9.797846	9.917526	9.632627	.9770095
#2	.9637405	1.000373	.9596682	9.767267	9.711341	9.579023	.9724708

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.803871	.9500623	.9400091	1.009770	.9868004	.9756249	.9855053
SDev	.108278	.0163169	.0114369	.013870	.0209747	.0385072	.0007656
%RSD	1.104437	1.717460	1.216678	1.373545	2.125528	3.946928	.0776858

#1	9.880435	.9616001	.9319220	1.019577	.9719690	.9483962	.9860467
#2	9.727307	.9385244	.9480962	.9999626	1.001632	1.002854	.9849640

Elem	Zn2138
Units	ppm
Avge	1.033532
SDev	.003397
%RSD	.3286740

#1	1.035934
#2	1.031130

Method: METALS Sample Name: 7-6 lcs

Operator: EAJ

Run Time: 07/10/01 15:00:34

Concentration:

Unit: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5642918	1.049448	1.000922	.9933814	.9663770	1.886536	.9924510
SDev	.0008282	.014582	.006388	.0008023	.0005622	.007217	.0000866
%RSD	.1467655	1.389530	.6381723	.0807653	.0581801	.3825695	.0087228

#1	.5648774	1.059759	.9964055	.9928141	.9659794	1.891639	.9923898
#2	.5637062	1.039136	1.005439	.9939487	.9667745	1.881432	.9925122

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9863583	1.017316	.9756865	.9947438	9.757732	.9780361	.9913445
SDev	.0018958	.003478	.0016181	.0004282	.109346	.0291454	.0012833
%RSD	.1922027	.3419090	.1658424	.0430517	1.120607	2.979996	.1294534

#1	.9876989	1.019775	.9768307	.9944410	9.680413	.9986449	.9922519
#2	.9850178	1.014857	.9745423	.9950466	9.835052	.9574271	.9904370

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.016834	.9745818	.9805564	.9781370	.9816177	.9559783	.9877893
SDev	.007416	.0165682	.0331254	.0121550	.0040928	.0655011	.0017132
%RSD	.7293551	1.700030	3.378221	1.242671	.4169440	6.851734	.1734406

#1	1.011589	.9862973	.9571332	.9695421	.9787237	1.002295	.9890007
#2	1.022078	.9628664	1.003980	.9867320	.9845118	.9096620	.9865779

Elem	Zn2138
Units	ppm
Avg	1.128281
SDev	.000496
%RSD	.0439593

#1	1.127930
#2	1.128631

Method: METALS Sample Name: 7-6 lcs 2

Operator: EAJ

Run Time: 07/10/01 15:06:16

ment:

: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9351743	1.005566	.9457241	.9398639	.9159287	2.116186	.9256471
SDev	.0010371	.007335	.0013892	.0042790	.0008904	.009623	.0019058
%RSD	.1108954	.7294469	.1468930	.4552788	.0972168	.4547317	.2058925

#1	.9359076	1.000379	.9467065	.9428896	.9165584	2.122991	.9242995
#2	.9344410	1.010753	.9447418	.9368382	.9152991	2.109382	.9269948

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9218079	.9570215	.9190503	.9541207	9.025774	.9135816	.9305064
SDev	.0029244	.0034743	.0024271	.0042170	.167665	.0145948	.0032100
%RSD	.3172417	.3630361	.2640890	.4419735	1.857623	1.597539	.3449767

#1	.9238757	.9594782	.9207666	.9571025	9.144331	.9239017	.9327762
#2	.9197401	.9545647	.9173341	.9511388	8.907217	.9032615	.9282365

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.026273	.9112581	.9044343	.9446236	.9440898	.9212741	.9307404
SDev	.013349	.0005400	.0107977	.0336700	.0004066	.0726526	.0026490
%RSD	1.300759	.0592618	1.193865	3.564381	.0430669	7.886102	.2846091

#1	1.035712	.9108763	.9120695	.9208153	.9438023	.9726472	.9326135
#2	1.016833	.9116400	.8967992	.9684318	.9443773	.8699009	.9288673

Elem	Zn2138
Units	ppm
Avge	.9999647
SDev	.0066952
%RSD	.6695474

#1	1.004699
#2	.9952305

Method: METALS Sample Name: ccb

Operator: EAJ

F Time: 07/10/01 15:34:42

Content:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.0020596	L.0868258	L-.005326	L-.000000	L.0001305	L.0799524	L-.000066
SDev	.0008264	.0000002	.009253	.000000	.0000372	.0024057	.002685
%RSD	40.12717	.0002609	173.7312	.0000000	28.46469	3.008962	4095.151

#1	L.0014752	L.0868260	L-.011868	L-.000000	L.0001568	L.0782513	L.0018327
#2	L.0026440	L.0868257	L.0012167	L-.000000	L.0001042	L.0816535	L-.001964

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.0007223	L.0013066	L.0002860	L.0308481	L.1391752	L.0896196	L.0002243
SDev	.0004372	.0006173	.0016181	.0004345	.0801874	.0160278	.0006416
%RSD	60.53030	47.24572	565.6856	1.408424	57.61613	17.88428	286.0186

#1	L.0010314	L.0008701	L-.000858	L.0311553	L.1958762	L.0782863	L-.000229
#2	L.0004131	L.0017431	L.0014302	L.0305409	L.0824742	.1009530	L.0006780

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.000524	L.0046769	L-.006480	L.0112855	L-.015352	L-.021060	L.0007864
SDev	.0000000	.0005880	.028313	.0062294	.003442	.023417	.0000829
%RSD	.0000000	12.57268	436.9011	55.19851	22.42170	111.1902	10.54550

#1	L-.000524	L.0050927	L.0135397	L.0068806	L-.017786	L-.004502	L.0008451
#2	L-.000524	L.0042612	L-.026500	L.0156903	L-.012918	L-.037618	L.0007278

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avge	L-.001091
SDev	.000106
%RSD	9.738828

#1	L-.001167
#2	L-.001016

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv  
Time: 07/10/01 15:40:24  
ent:  
Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.988346	2.046930	2.021480	2.001702	1.991147	2.104278	1.986864
SDev	.004758	.007251	.007957	.007756	.004168	.007217	.002945
%RSD	.2393050	.3542350	.3936137	.3874550	.2093428	.3429787	.1482389

#1	1.984981	2.041803	2.015853	1.996218	1.988200	2.099175	1.988947
#2	1.991710	2.052057	2.027106	2.007186	1.994095	2.109382	1.984781

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.975601	2.059029	1.961957	1.971370	19.06186	1.957176	1.977922
SDev	.007308	.001823	.004045	.005772	.04374	.004418	.004495
%RSD	.3699218	.0885256	.2061804	.2927662	.2294546	.2257506	.2272398

#1	1.970434	2.057740	1.959096	1.967289	19.09278	1.954052	1.974743
#2	1.980769	2.060318	1.964817	1.975451	19.03093	1.960301	1.981100

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.934553	1.946145	1.905789	2.050262	1.956586	2.002228	1.996294
SDev	.001483	.012002	.024018	.070370	.006641	.023050	.004685
%RSD	.0766749	.6167275	1.260264	3.432231	.3394131	1.151215	.2346744

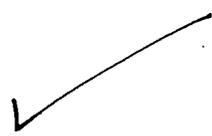
#1	1.933505	1.937658	1.888806	2.100021	1.961282	2.018527	1.992981
#2	1.935602	1.954632	1.922772	2.000503	1.951890	1.985929	1.999607

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avge	1.984809
SDev	.004919
%RSD	.2478389

#1	1.981330
#2	1.988287

Errors	QC Pass
value	2.000000
Range	10.00000



Method: METALS Sample Name: ccb

Operator: EAJ

Print Time: 07/10/01 16:43:05

Content:

Method: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0004503	L.0694982	L-.009171	L-.000378	L.0000551	L.0816535	L.0010368
SDev	.0035118	.0072945	.009229	.000535	.0000010	.0048115	.0011258
%RSD	779.8644	10.49598	100.6251	141.4214	1.761668	5.892558	108.5863

#1	L-.002033	L.0746562	L-.002646	L-.000756	L.0000544	L.0850557	L.0018328
#2	L.0029335	L.0643402	L-.015697	L-.000000	L.0000558	L.0782513	L.0002407

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0016535	L-.003904	L-.002574	L.0303829	L.1185567	L.0690208	L.0004520
SDev	.0005854	.005952	.001618	.0002296	.0218693	.0014495	.0009632
%RSD	35.40486	152.4575	62.85392	.7556017	18.44627	2.100051	213.1137

#1	L.0020674	L-.008113	L-.003719	L.0305453	L.1030927	L.0679959	L.0011330
#2	L.0012395	L.0003047	L-.001430	L.0302206	L.1340206	L.0700458	L-.000229

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

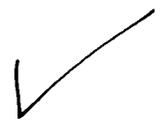
Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0524411	L.0057874	L.0001194	L-.009435	L-.035449	L.0193703	L-.001397
SDev	.0066747	.0018105	.0114048	.010185	.012488	.0226282	.000575
%RSD	12.72795	31.28332	9550.131	107.9494	35.22810	116.8192	41.15679

#1	L.0571608	L.0070676	L-.007945	L-.016636	L-.026618	L.0033697	L-.000990
#2	L.0477214	L.0045072	L.0081838	L-.002233	L-.044279	L.0353709	L-.001803

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avg	L-.000707
SDev	.001509
%RSD	213.4743

#1	L.0003602
#2	L-.001774



Errors	LC Low
High	100.0000
Low	.0300000

Method: METALS Sample Name: ccv

Operator: EAJ

Run Time: 07/10/01 16:48:47

Content:

Method: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.980915	2.036086	2.043407	1.962368	1.999719	2.170622	2.054896
SDev	.006198	.003961	.024349	.001337	.000298	.000000	.006322
%RSD	.3129000	.1945215	1.191584	.0681354	.0149010	.0000000	.3076486

#1	1.976532	2.033285	2.026189	1.963313	1.999930	2.170622	2.059366
#2	1.985298	2.038886	2.060624	1.961422	1.999508	2.170622	2.050425

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.024899	2.092287	1.925915	1.989875	18.84021	2.023382	2.006750
SDev	.007166	.004312	.001618	.000230	.12393	.021834	.000964
%RSD	.3538846	.2060884	.0840173	.0115350	.6577700	1.079064	.0480202

#1	2.029966	2.089238	1.924771	1.990037	18.75258	2.007943	2.007432
#2	2.019832	2.095336	1.927059	1.989713	18.92784	2.038820	2.006069

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.937176	1.965219	1.998090	2.048266	2.001752	2.036095	2.010123
SDev	.017057	.004922	.022086	.016141	.036815	.020216	.000240
%RSD	.8805347	.2504380	1.105341	.7880353	1.839157	.9928886	.0119597

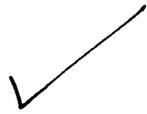
#1	1.925114	1.961739	2.013706	2.059680	2.027784	2.050390	2.010292
#2	1.949237	1.968700	1.982473	2.036853	1.975720	2.021800	2.009952

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avg	2.005737
SDev	.008449
%RSD	.4212505

#1	2.011712
#2	1.999763

Errors	QC Pass
Value	2.000000
Range	10.00000



Method: METALS Sample Name: ccb  
Run Time: 07/10/01 17:51:26  
Element:   
Unit: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0016217	L.0778985	L-.007801	L-.000567	L.0001037	L.0825040	L.0016490
SDev	.0014478	.0046635	.005405	.000267	.0000728	.0036086	.0035510
%RSD	89.27560	5.986630	69.27740	47.14044	70.27838	4.373856	215.3445

#1	L.0026454	L.0746009	L-.003980	L-.000756	L.0001552	L.0850557	L-.000862
#2	L.0005979	L.0811961	L-.011623	L-.000378	L.0000522	L.0799524	L.0041599

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.000415	L-.003337	L-.001430	L.0316292	L.1649484	L.0731382	L.0004518
SDev	.000001	.000611	.000000	.0019859	.0583181	.0160220	.0003215
%RSD	.2642832	18.31556	.0000000	6.278775	35.35535	21.90647	71.16053

#1	L-.000414	L-.002905	L-.001430	L.0330335	.2061855	L.0618089	L.0006792
#2	L-.000416	L-.003769	L-.001430	L.0302250	L.1237113	L.0844674	L.0002245

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.1206146	L.0036794	L-.005868	L.0000726	L.0172301	L-.002244	L.0010712
SDev	.0096412	.0030122	.026474	.0068253	.0129285	.023823	.0010229
%RSD	7.993423	81.86684	451.1248	9398.094	75.03441	1061.462	95.49082

#1	L.1137972	L.0058093	L.0128513	L-.004754	L.0263719	L-.019089	L.0017944
#2	L.1274320	L.0015494	L-.024588	L.0048989	L.0080882	L.0146007	L.0003479

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avg	L-.000091
SDev	.001935
%RSD	2135.211

#1	L.0012775
#2	L-.001459

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv

Operator: EAJ

Run Time: 07/10/01 17:57:08

Content:

Method: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.991761	2.034409	2.066518	1.956505	2.018607	Q2.208046	2.120292
SDev	.018613	.029664	.001928	.026744	.017798	.009623	.004761
%RSD	.9345195	1.458096	.0932954	1.366916	.8816943	.4358137	.2245561

#1	2.004923	2.055384	2.067881	1.975416	2.031192	Q2.214851	2.123659
#2	1.978600	2.013434	2.065155	1.937595	2.006022	Q2.201242	2.116925

Errors	QC Pass	QC Fail	QC Pass				
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.067865	2.128093	1.919909	2.024320	18.65979	2.032977	2.040802
SDev	.012115	.017353	.022249	.013811	.32075	.032202	.015730
%RSD	.5858794	.8154268	1.158852	.6822545	1.718938	1.584002	.7707941

#1	2.076432	2.140363	1.935641	2.034086	18.88660	2.055747	2.051925
#2	2.059298	2.115822	1.904176	2.014555	18.43299	2.010206	2.029679

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.947139	2.018252	2.084955	2.087144	2.029197	2.068306	2.035809
SDev	.016316	.025785	.013454	.024072	.028496	.001583	.015201
%RSD	.8379415	1.277613	.6453034	1.153351	1.404315	.0765459	.7466902

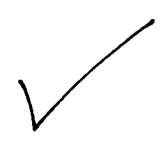
#1	1.958676	2.036485	2.094469	2.104166	2.049347	2.069426	2.046558
#2	1.935602	2.000019	2.075441	2.070123	2.009047	2.067187	2.025060

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avg	2.016025
SDev	.018987
%RSD	.9418284

#1	2.029451
#2	2.002598

Errors	QC Pass
Value	2.000000
Range	10.00000



Method: METALS Sample Name: ccb1

Operator: EAJ

Run Time: 07/10/01 18:59:49

Content:

Method: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.000732	L-.001382	L-.008481	L-.000756	L.0000291	L-.005103	L.0009798
SDev	.001860	.001314	.004922	.001070	.0000385	.002406	.0003466
%RSD	254.0042	95.09755	58.03663	141.4214	132.3540	47.14045	35.37027

#1	L-.002047	L-.002311	L-.011961	L-.001513	L.0000562	L-.006804	L.0007348
#2	L.0005829	L-.000453	L-.005000	L-.000000	L.0000019	L-.003402	L.0012249

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0000033	L-.008695	L-.004291	L-.000151	L.0360825	L-.019568	L.0004546
SDev	.0005882	.003688	.002427	.001098	.0072898	.004371	.0003209
%RSD	17829.06	42.41896	56.56855	725.5055	20.20303	22.33940	70.59062

#1	L.0004192	L-.011303	L-.006007	L.0006253	L.0412371	L-.022659	L.0002277
#2	L-.000413	L-.006087	L-.002574	L-.000928	L.0309278	L-.016477	L.0006815

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0681734	L-.005012	L.0108405	L.0031825	L-.020095	L-.018800	L-.001594
SDev	.0022249	.005089	.0066269	.0124816	.006465	.026603	.000693
%RSD	3.263628	101.5291	61.13148	392.1951	32.17099	141.5052	43.49365

#1	L.0666002	L-.008611	L.0155264	L.0120083	L-.015524	L-.037611	L-.002084
#2	L.0697467	L-.001414	L.0061545	L-.005643	L-.024667	L.0000111	L-.001104

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avg	L-.002647
SDev	.001319
%RSD	49.85083

#1	L-.001714
#2	L-.003580

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv1  
 Run Time: 07/10/01 19:05:30  
 Comment:  
 Method: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.019980	2.027466	2.087170	1.987708	2.042136	2.184231	2.131498
SDev	.001443	.000645	.014931	.003477	.000675	.004811	.011604
%RSD	.0714167	.0318305	.7153839	.1749139	.0330300	.2202828	.5444077

#1	2.018960	2.027922	2.097728	1.985250	2.041659	2.187633	2.139703
#2	2.021000	2.027010	2.076612	1.990167	2.042613	2.180829	2.123293

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.081071	2.141729	1.945938	2.028884	18.93299	2.009485	2.061688
SDev	.003643	.010242	.004045	.004863	.02187	.024780	.001605
%RSD	.1750543	.4781891	.2078776	.2396671	.1155153	1.233135	.0778301

#1	2.083647	2.148971	1.948799	2.032322	18.94846	2.027006	2.062823
#2	2.078495	2.134488	1.943078	2.025445	18.91753	1.991963	2.060554

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.951859	2.052848	2.057212	2.132529	2.039271	2.145498	2.061119
SDev	.012608	.018023	.002957	.001687	.003472	.052024	.001907
%RSD	.6459385	.8779511	.1437148	.0791026	.1702680	2.424793	.0925173

#1	1.960774	2.065593	2.055121	2.133722	2.041726	2.108712	2.062468
#2	1.942944	2.040104	2.059302	2.131336	2.036815	2.182285	2.059771

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avg	2.050614
SDev	.002736
%RSD	.1334155

#1	2.052548
#2	2.048679

Errors	QC Pass
Value	2.000000
Range	10.00000



Method: METALS Sample Name: ccb1

Operator: EAJ

Run Time: 07/10/01 20:08:12

Content:

Method: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.003505	L-.012246	L-.003237	L-.001891	L.0000751	L-.000000	L.0033070
SDev	.003304	.002030	.004325	.000535	.0000339	.000000	.0029444
%RSD	94.25739	16.57754	133.6097	28.28427	45.07130	.0000000	89.03468

#1	L-.001169	L-.010811	L-.000179	L-.001513	L.0000512	L-.000000	L.0012250
#2	L-.005841	L-.013681	L-.006295	L-.002269	L.0000990	L-.000000	L.0053889

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.000725	L-.010313	L-.008009	L-.001240	L.1340206	L-.037079	L.0006822
SDev	.001319	.001038	.002023	.000881	.0145795	.011656	.0000003
%RSD	181.9516	10.06563	25.25381	71.08551	10.87857	31.43514	.0512560

#1	L.0002078	L-.009579	L-.006579	L-.001863	L.1443299	L-.028837	L.0006819
#2	L-.001658	L-.011047	L-.009439	L-.000617	L.1237113	L-.045321	L.0006824

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0660758	L.0062980	L.0330194	L-.006802	L-.013708	L-.005053	L.0023704
SDev	.0022249	.0039252	.0048965	.001053	.032298	.046055	.0020380
%RSD	3.367147	62.32481	14.82902	15.47421	235.6174	911.3950	85.97508

#1	L.0645026	L.0035224	L.0295571	L-.007547	L-.036546	L.0275123	L.0009294
#2	L.0676490	L.0090735	L.0364818	L-.006058	L.0091303	L-.037619	L.0038114

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avg	L-.000999
SDev	.000206
%RSD	20.66771

#1	L-.001145
#2	L-.000853

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv1

Operator: EAJ

Run Time: 07/10/01 20:13:53

Content:

Method: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.013092	2.010756	2.045946	1.981468	2.036205	2.141703	2.110619
SDev	.000415	.000669	.022364	.000535	.003429	.007217	.001126
%RSD	.0205930	.0332604	1.093078	.0270008	.1683800	.3369776	.0533411

#1	2.012799	2.011228	2.061760	1.981846	2.033780	2.136599	2.109823
#2	2.013385	2.010283	2.030133	1.981089	2.038629	2.146806	2.111415

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.057939	2.109191	1.934783	2.009237	18.82474	1.987689	2.043755
SDev	.003657	.002263	.001214	.000679	.11664	.023284	.001927
%RSD	.1777019	.1073059	.0627285	.0338142	.6195862	1.171399	.0943015

#1	2.055353	2.110791	1.933924	2.008757	18.74227	2.004153	2.042392
#2	2.060525	2.107590	1.935641	2.009718	18.90722	1.971224	2.045118

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.920919	2.008315	2.009477	2.072838	2.011909	2.026799	2.044707
SDev	.008899	.000087	.037619	.003184	.023039	.037329	.001098
%RSD	.4632926	.0043483	1.872088	.1535949	1.145147	1.841769	.0536919

#1	1.914626	2.008377	2.036078	2.075089	1.995618	2.053195	2.043930
#2	1.927212	2.008253	1.982876	2.070587	2.028201	2.000404	2.045483

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avg	2.016417
SDev	.004537
%RSD	.2250043

#1	2.013208
#2	2.019625

Errors	QC Pass
Value	2.000000
Range	10.00000



Method: METALS Sample Name: 7-2 ext 1

Operator: EAJ

Print Time: 07/10/01 20:19:35

Content:

Method: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0218013	.0248507	-.051795	.0068079	.0000755	.9560263	.0026282
SDev	.0018590	.0066343	.010814	.0000000	.0000375	.0000000	.0006060
%RSD	8.527231	26.69658	20.87931	.0000000	49.57237	.0000000	23.05630
#1	.0204867	.0295419	-.059442	.0068079	.0001020	.9560263	.0030567
#2	.0231158	.0201596	-.044148	.0068079	.0000491	.9560263	.0021997
Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022680	.0014420	-.000286	.0355370	.3917525	.0092863	.0018158
SDev	.0014633	.0024611	.001618	.0017594	.1020567	.0072880	.0003208
%RSD	64.52132	170.6817	565.6850	4.951016	26.05132	78.48108	17.66834
#1	.0012333	-.000298	-.001430	.0367811	.3195876	.0041329	.0015890
#2	.0033027	.0031822	.0008581	.0342929	.4639175	.0144397	.0020427
Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1275.407	.0092590	.0352486	.0062078	-.029330	.0047660	.0021102
SDev	7.927	.0024986	.0205799	.0227129	.010344	.0083431	.0000935
D	.6215460	26.98580	58.38515	365.8746	35.26671	175.0548	4.433362
#1	1281.013	.0110258	.0498008	-.009853	-.022016	.0106655	.0020440
#2	1269.802	.0074922	.0206964	.0222683	-.036644	-.001133	.0021763
Elem	Zn2138						
Units	ppm						
Avge	.1849999						
SDev	.0018422						
%RSD	.9957995						
#1	.1836973						
#2	.1863026						

Method: METALS Sample Name: 7-2 ext 2 Operator: EAJ  
 F Time: 07/10/01 20:25:17  
 ( ent:  
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011951	.0549013	-.014489	.0017020	.0000241	.7212725	.0015265
SDev	.0024797	.0146007	.003600	.0008023	.0000381	.0048115	.0037237
%RSD	207.4829	26.59452	24.84225	47.14045	158.1146	.6670886	243.9366

#1	-.000558	.0652256	-.017035	.0011346	-.000003	.7178702	-.001107
#2	.0029486	.0445771	-.011944	.0022693	.0000511	.7246747	.0041595

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014429	.0010114	.0014302	.0316445	.1546392	.0195873	.0020426
SDev	.0014628	.0002067	.0008090	.0015422	.0583181	.0131086	.0000004
%RSD	101.3805	20.43764	56.56855	4.873557	37.71235	66.92423	.0192562

#1	.0024773	.0008652	.0008581	.0305540	.1958762	.0103181	.0020428
#2	.0004085	.0011575	.0020023	.0327350	.1134021	.0288565	.0020423

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3177933	.0103908	.0111305	.0060783	-.002864	.0070207	.0013268
SDev	.0051915	.0076932	.0240057	.0033065	.004745	.0122980	.0005097
%RSD	1.633610	74.03878	215.6753	54.39842	165.6670	175.1665	38.41432

#1	.3214642	.0158307	.0281051	.0084164	-.006220	.0157167	.0016872
#2	.3141223	.0049508	-.005844	.0037403	.0004911	-.001675	.0009664

Elem	Zn2138
Units	ppm
Avge	.1668097
SDev	.0007816
%RSD	.4685849

#1	.1662570
#2	.1673624

Method: METALS Sample Name: ccb1

Operator: EAJ

Time: 07/10/01 20:30:59

Element:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.002921	L.0117172	L-.007566	L-.000946	L-.000002	L-.005103	L.0009185
SDev	.007026	.0305210	.007432	.001337	.000073	.002406	.0002597
%RSD	240.5363	260.4798	98.22424	141.4214	4844.713	47.14045	28.28018

#1	L-.007889	L-.009864	L-.012822	L-.001891	L-.000053	L-.003402	L.0007348
#2	L.0020473	L.0332989	L-.002311	L-.000000	L.0000499	L-.006804	L.0011021

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.000723	L-.004066	L-.004005	L.0006275	L.0927835	L-.004118	L.0004542
SDev	.001313	.012712	.008495	.0004437	.0000000	.037880	.0003199
%RSD	181.5712	312.6112	212.1320	70.70880	.0000000	919.7752	70.44132

#1	L-.001651	L-.013055	L-.010011	L.0003138	L.0927835	L-.030903	L.0002279
#2	L.0002053	L.0049223	L.0020023	L.0009413	L.0927835	L.0226666	L.0006804

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.0660758	L-.000644	L.0183641	L-.001814	L-.009739	L.0185324	L.0008882
SDev	.0363399	.000087	.0104374	.005703	.010336	.0222243	.0011497
%RSD	54.99725	13.52627	56.83613	314.2892	106.1309	119.9213	129.4367

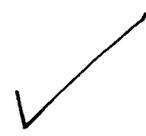
#1	L.0403796	L-.000706	L.0257444	L-.005847	L-.017048	L.0028174	L.0000753
#2	L.0917720	L-.000583	L.0109837	L.0022179	L-.002430	L.0342473	L.0017012

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avge	L-.002893
SDev	.000991
%RSD	34.23976

#1	L-.002193
#2	L-.003593

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv1  
 Run Time: 07/10/01 20:36:40  
 Comment:  
 Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.987199	1.990920	2.037091	1.944970	2.005085	2.117887	2.090476
SDev	.000214	.014716	.000149	.001337	.005357	.007217	.013856
%RSD	.0107912	.7391471	.0073242	.0687492	.2671640	.3407748	.6628089

#1	1.987048	2.001325	2.036985	1.944024	2.001297	2.112784	2.080678
#2	1.987351	1.980514	2.037196	1.945915	2.008873	2.122991	2.100273

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.031087	2.072357	1.899313	1.981697	18.53608	1.969891	2.014924
SDev	.003357	.000456	.005259	.003559	.04374	.018976	.003531
%RSD	.1653015	.0219972	.2768806	.1796002	.2359631	.9632821	.1752454

#1	2.028713	2.072679	1.895595	1.979180	18.50516	1.956473	2.012428
#2	2.033462	2.072034	1.903032	1.984214	18.56701	1.983309	2.017421

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.894698	1.989086	2.035545	2.073249	2.001096	2.093645	2.017813
SDev	.010383	.005298	.005172	.014467	.006223	.015900	.007484
%RSD	.5479918	.2663718	.2540805	.6978177	.3109828	.7594404	.3709016

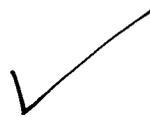
#1	1.902040	1.992833	2.031888	2.063019	2.005497	2.104887	2.012521
#2	1.887357	1.985340	2.039203	2.083479	1.996696	2.082402	2.023105

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avg	1.997377
SDev	.005302
%RSD	.2654560

#1	1.993628
#2	2.001126

Errors	QC Pass
Value	2.000000
Range	10.00000



Method: METALS Sample Name: icsa  
 Run Time: 07/10/01 20:42:22  
 ( ent:  
 Name: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008079	486.2769	.0632374	-.000189	-.000053	496.6812	.0041741
SDev	.001550	6.2810	.0184734	.000802	.000002	3.7722	.0007561
%RSD	19.18629	1.291644	29.21277	424.2640	2.983973	.7594841	18.11395

#1	-.009175	481.8355	.0501747	.0003782	-.000054	494.0138	.0047088
#2	-.006983	490.7182	.0763000	-.000756	-.000052	499.3485	.0036395

Errors Value Range	NOCHECK	QC Pass 500.0000 20.00000	NOCHECK	NOCHECK	NOCHECK	QC Pass 500.0000 20.00000	NOCHECK
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Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm						
Avg	-.001349	.0069222	.0034325	179.2654	.0309278	515.7407	-.016380
SDev	.002485	.0002916	.0004045	1.6892	.1895338	4.3659	.000452
%RSD	184.2456	4.212689	11.78511	.9422702	612.8267	.8465303	2.759560

#1	.0004084	.0067160	.0031464	178.0710	.1649484	512.6535	-.016061
#2	-.003106	.0071284	.0037185	180.4598	-.103093	518.8278	-.016700

Errors Value Range	NOCHECK	NOCHECK	NOCHECK	QC Pass 200.0000 20.00000	NOCHECK	QC Pass 500.0000 20.00000	NOCHECK
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Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm						
Avg	.0031464	.0004138	.0606034	-.006204	.1598857	.0257154	.0000840
SDev	.0318901	.0031914	.0053853	.016762	.0074754	.0111033	.0009347
%RSD	1013.538	771.2249	8.886197	270.1862	4.675449	43.17746	1112.389

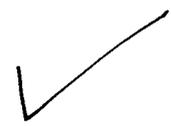
#1	.0256961	.0026704	.0567954	.0056486	.1545999	.0335666	.0007450
#2	-.019403	-.001843	.0644114	-.018056	.1651716	.0178642	-.000577

Errors Value Range	NOCHECK						
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Elem	Zn2138
Units	ppm
Avg	.0014977
SDev	.0007604
%RSD	50.76889

#1	.0009601
#2	.0020354

Errors Value Range	NOCHECK
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Method: METALS Sample Name: icsab  
Run Time: 07/10/01 20:48:03  
Element:   
Matrix: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9628446	487.3955	1.044228	.4731468	.4669298	500.6107	.9516041
SDev	.0057981	3.5368	.040140	.0042790	.0030192	1.5228	.0107071
%RSD	.6021888	.7256589	3.843947	.9043752	.6466181	.3041928	1.125164

#1	.9587446	484.8946	1.015845	.4701211	.4647949	499.5339	.9591752
#2	.9669445	489.8964	1.072611	.4761725	.4690647	501.6875	.9440331

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000000	500.0000	1.000000	.5000000	.5000000	500.0000	1.000000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4502358	.4799012	.4693936	179.4695	-.046392	516.3417	.4476199
SDev	.0046829	.0065435	.0048543	1.0117	.080187	3.1408	.0015110
%RSD	1.040103	1.363516	1.034161	.5637274	172.8482	.6082725	.3375694

#1	.4469245	.4752742	.4659611	178.7541	-.103093	514.1208	.4465514
#2	.4535472	.4845282	.4728261	180.1849	.0103093	518.5625	.4486883

Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.5000000	.5000000	.5000000	200.0000		500.0000	.5000000
Range	20.00000	20.00000	20.00000	20.00000		20.00000	20.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9434160	.8826111	.9715561	1.026435	1.121926	.9536766	.4649840
SDev	.0163159	.0031973	.0159559	.029834	.009303	.0079563	.0006180
%RSD	1.729448	.3622597	1.642305	2.906605	.8292209	.8342779	.1329076

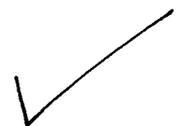
#1	.9549531	.8803502	.9602736	1.047531	1.128504	.9593025	.4645470
#2	.9318789	.8848720	.9828386	1.005338	1.115347	.9480506	.4654210

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	.5000000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	Zn2138
Units	ppm
Avg	.9554493
SDev	.0025203
%RSD	.2637770

#1	.9536672
#2	.9572314

Errors	QC Pass
Value	1.000000
Range	20.00000



Method: METALS Sample Name: ccb1

Operator: EAJ

Run Time: 07/10/01 20:53:45

Content:

Method: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0007314	L-.003303	L.0038211	L.0001891	L.0000507	L.0017011	L.0011023
SDev	.0010350	.006651	.0056965	.0002674	.0000728	.0024057	.0010389
%RSD	141.5026	201.3499	149.0821	141.4214	143.5827	141.4214	94.24728

#1	L.0014633	L-.008006	L-.000207	L.0003782	L.0001022	L.0034022	L.0018368
#2	L-.000000	L.0013998	L.0078491	L-.000000	L-.000001	L-.000000	L.0003677

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0006197	L-.002328	L-.001716	L.0000000	L.1288659	L-.007210	L.0000002
SDev	.0011680	.005738	.001214	.0026469	.1530850	.007288	.0003208
%RSD	188.4699	246.4892	70.71066	123e6	118.7940	101.0849	148585.9

#1	L.0014457	L.0017294	L-.000858	L.0018716	.2371134	L-.002056	L.0002271
#2	L-.000206	L-.006385	L-.002574	L-.001872	L.0206185	L-.012363	L-.000227

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0555875	L.0019889	L-.008405	L.0098756	L.0021312	L-.019659	L.0011949
SDev	.0096412	.0003983	.026222	.0212054	.0172078	.000008	.0010405
%RSD	17.34415	20.02583	311.9672	214.7259	807.4141	.0388045	87.07900

#1	L.0487702	L.0022706	L-.026947	L-.005119	L-.010037	L-.019664	L.0019307
#2	L.0624049	L.0017073	L.0101364	L.0248700	L.0142990	L-.019654	L.0004592

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avg	L-.001149
SDev	.003021
%RSD	262.8213

#1	L.0009867
#2	L-.003286

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv1  
 F Time: 07/10/01 20:59:27  
 C ent:  
 Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.993051	1.974416	2.031311	1.950454	2.016702	2.153611	2.098742
SDev	.008484	.001844	.004232	.012837	.013816	.000000	.001644
%RSD	.4256913	.0933824	.2083325	.6581546	.6850575	.0000000	.0783277
#1	1.987052	1.973112	2.028318	1.941377	2.006933	2.153611	2.097580
#2	1.999050	1.975719	2.034303	1.959531	2.026471	2.153611	2.099904
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000
Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.038416	2.084214	1.909039	1.986519	18.63918	1.992687	2.030361
SDev	.008181	.001288	.006877	.011552	.02916	.001354	.009952
%RSD	.4013183	.0618063	.3602301	.5815339	.1564459	.0679532	.4901783
#1	2.032631	2.085125	1.904176	1.978350	18.61856	1.993644	2.023324
#2	2.044200	2.083303	1.913902	1.994688	18.65980	1.991729	2.037398
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000
Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.905711	2.007054	1.988664	2.047399	2.059580	2.062253	2.023989
SDev	.018541	.015687	.004776	.017925	.007039	.007930	.010714
%RSD	.9728995	.7815708	.2401822	.8755121	.3417456	.3845479	.5293372
#1	1.892601	1.995962	1.985287	2.034724	2.064557	2.056645	2.016414
#2	1.918821	2.018146	1.992042	2.060074	2.054603	2.067861	2.031565
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000
Elem	Zn2138						
Units	ppm						
Avge	2.001342						
SDev	.007494						
%RSD	.3744510						
#1	1.996043						
#2	2.006642						
Errors	QC Pass						
Value	2.000000						
Range	10.00000						



Method: METALS Sample Name: 7-9 tclp blk Operator: EAJ  
 Run Time: 07/10/01 21:05:08  
 ( ent:  
 M...: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001701	.0117068	-.015316	-.000000	-.000055	1.022370	.0007949
SDev	.0018561	.0105669	.010430	.000535	.000080	.012029	.0004333
%RSD	1091.389	90.26307	68.10308	919e6	143.5230	1.176560	54.50747

#1	.0014825	.0042349	-.022691	.0003782	.0000008	1.013864	.0011012
#2	-.001142	.0191787	-.007940	-.000378	-.000112	1.030875	.0004885

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000311	-.003924	-.001430	.0087263	.1855670	.0061814	.0002268
SDev	.001320	.002682	.004854	.0017625	.0145795	.0058249	.0000002
%RSD	424.1203	68.34943	339.4112	20.19797	7.856727	94.23248	.0770409

#1	.0006220	-.002028	.0020023	.0074800	.1958762	.0020626	.0002269
#2	-.001244	-.005821	-.004863	.0099726	.1752577	.0103003	.0002267

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0534899	.0040338	.0005926	-.012877	-.002386	-.004214	.0016105
SDev	.0066747	.0135144	.0095330	.000445	.018955	.020252	.0029680
%RSD	12.47837	335.0300	1608.718	3.458839	794.4540	480.6291	184.2902

#1	.0582096	-.005522	-.006148	-.012562	-.015789	.0101066	-.000488
#2	.0487702	.0135899	.0073334	-.013192	.0110174	-.018534	.0037092

Elem	Zn2138
Units	ppm
Avg	.0554520
SDev	.0024454
%RSD	4.409931

#1	.0537228
#2	.0571811

Method: METALS      Sample Name: 7-9 blkspk      Operator: EAJ  
 F    Time: 07/10/01 21:10:50  
 C    ent:  
 Mode: CONC      Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9261938	9.365725	.9890184	.9253026	.9621860	10.38786	.9884683
SDev	.0020595	.008670	.0043163	.0018720	.0015240	.01564	.0057142
%RSD	.2223623	.0925728	.4364270	.2023161	.1583924	.1505428	.5780891

#1	.9247375	9.359594	.9859663	.9239789	.9632637	10.39891	.9925089
#2	.9276501	9.371856	.9920706	.9266264	.9611084	10.37680	.9844278

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9615819	.9817265	.9087528	9.758892	9.025774	9.497562	.9602145
SDev	.0016085	.0051114	.0016181	.010808	.051029	.001470	.0012841
%RSD	.1672756	.5206500	.1780528	.1107482	.5653666	.0154785	.1337337

#1	.9627193	.9853408	.9098970	9.766535	8.989691	9.498602	.9611225
#2	.9604445	.9781122	.9076087	9.751250	9.061856	9.496523	.9593065

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.897163	.9423016	.9480161	.9919429	.9787495	.9506090	.9713662
SDev	.057106	.0102885	.0355660	.0061960	.0051053	.0325649	.0028247
%RSD	.6418444	1.091844	3.751628	.6246335	.5216093	3.425687	.2907991

#1	8.856784	.9350265	.9731651	.9875616	.9751396	.9275821	.9733635
#2	8.937544	.9495766	.9228671	.9963241	.9823595	.9736358	.9693688

Elem	Zn2138
Units	ppm
Avge	1.058719
SDev	.000182
%RSD	.0172215

#1	1.058590
#2	1.058848

Method: METALS Sample Name: 7-9 lcs

Operator: EAJ

Run Time: 07/10/01 21:16:32

Content:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9087027	.9253998	.9225887	.8939108	.9120318	1.459556	.9578627
SDev	.0049671	.0147154	.0083222	.0088255	.0072960	.000000	.0064076
%RSD	.5466180	1.590162	.9020478	.9872870	.7999673	.0000000	.6689461

#1	.9122150	.9149945	.9284733	.9001514	.9171909	1.459556	.9623936
#2	.9051904	.9358051	.9167040	.8876703	.9068728	1.459556	.9533319

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9345284	.9529589	.8738558	.9187372	8.628866	.9001890	.9284636
SDev	.0030648	.0006578	.0064724	.0066744	.087477	.0188755	.0067425
%RSD	.3279462	.0690300	.7406674	.7264727	1.013775	2.096838	.7262026

#1	.9366955	.9524937	.8784325	.9234567	8.567011	.8868420	.9332313
#2	.9323613	.9534240	.8692792	.9140177	8.690722	.9135360	.9236959

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9365987	.9148505	.9123225	.9595655	.9358199	.9113778	.9275986
SDev	.0215072	.0000039	.0250202	.0207267	.0161845	.0015822	.0073983
%RSD	2.296309	.0004238	2.742476	2.160007	1.729443	.1736091	.7975699

#1	.9213908	.9148477	.9300144	.9449095	.9472640	.9102590	.9328300
#2	.9518066	.9148532	.8946305	.9742215	.9243757	.9124966	.9223673

Elem	Zn2138
Units	ppm
Avge	.9736041
SDev	.0084161
%RSD	.8644267

#1	.9795552
#2	.9676530

Method: METALS Sample Name: c1f0263-01

Operator: EAJ

Run Time: 07/10/01 21:22:15

Content:

Method: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	- .002923	.7580445	- .047286	5.781203	- .000530	235.7753	.0110450
SDev	.002072	.0158872	.003011	.051615	.000070	.4896	.0003443
%RSD	70.90136	2.095810	6.367173	.8928140	13.22787	.2076414	3.117341

#1	- .004388	.7468106	- .049415	5.817701	- .000579	235.4291	.0112884
#2	- .001458	.7692785	- .045157	5.744706	- .000480	236.1215	.0108015

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010417	.0085579	.3629863	8.588738	1.025773	3.662364	.3740104
SDev	.0001262	.0040868	.0016181	.014985	.036449	.010195	.0003213
%RSD	12.11826	47.75423	.4457749	.1744773	3.553297	.2783717	.0859197

#1	.0011310	.0056681	.3618421	8.599334	1.000000	3.655155	.3742377
#2	.0009525	.0114477	.3641304	8.578141	1.051546	3.669573	.3737832

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1515.762	.4208739	.0651491	.2275227	- .031422	- .002348	.0015332
SDev	17.230	.0027026	.0236465	.0083316	.012401	.004753	.0026511
%RSD	1.136741	.6421409	36.29607	3.661867	39.46689	202.4355	172.9059

#1	1527.946	.4227849	.0484284	.2334140	- .040191	- .005709	- .000341
#2	1503.578	.4189629	.0818697	.2216314	- .022653	.0010130	.0034078

Elem	Zn2138
Units	ppm
Avg	.4239188
SDev	.0001019
%RSD	.0240402

#1	.4239909
#2	.4238467

Method: METALS Sample Name: c1f0263-01s Operator: EAJ  
 Run Time: 07/10/01 21:27:57  
 Comment:  
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.8422552	9.930023	.9340824	6.491680	.8976926	239.4777	.9678656
SDev	.0035605	.045043	.0013214	.036906	.0041643	.9575	.0018094
%RSD	.4227319	.4536060	.1414638	.5685145	.4638915	.3998197	.1869525
#1	.8447729	9.961874	.9350167	6.517777	.9006372	240.1548	.9691451
#2	.8397376	9.898173	.9331480	6.465583	.8947480	238.8007	.9665861

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9072117	.9430114	1.234268	17.38889	10.44845	12.64939	1.266817
SDev	.0056885	.0004411	.006472	.06549	.02187	.04230	.005457
%RSD	.6270332	.0467722	.5243856	.3766051	.2093052	.3343868	.4307252
#1	.9112340	.9426995	1.238844	17.43520	10.46392	12.67930	1.270675
#2	.9031892	.9433232	1.229691	17.34258	10.43299	12.61948	1.262959

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1479.931	1.305770	.9902067	1.201564	.9650019	.9347628	.9251584
SDev	10.812	.002872	.0480211	.001355	.0008038	.0412738	.0070587
%RSD	.7305945	.2199251	4.849604	.1127574	.0832977	4.415428	.7629779
#1	1487.576	1.307801	1.024163	1.200606	.9655703	.9639478	.9301497
#2	1472.285	1.303740	.9562507	1.202522	.9644335	.9055778	.9201671

Elem	Zn2138
Units	ppm
Avge	1.362920
SDev	.006998
%RSD	.5134609

#1	1.367869
#2	1.357972

Method: METALS Sample Name: c1f0263-01sd Operator: EAJ  
 Run Time: 07/10/01 21:33:39  
 Element:  
 Method: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.8692877	10.05338	.9291151	6.481657	.9110739	238.4775	.9741665
SDev	.0029146	.05115	.0021446	.061243	.0038070	.2213	.0015665
%RSD	.3352887	.5087987	.2308173	.9448728	.4178537	.0928083	.1608056

#1	.8713486	10.08954	.9306315	6.524963	.9137658	238.6340	.9730588
#2	.8672267	10.01721	.9275987	6.438352	.9083819	238.3210	.9752741

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9153827	.9538512	1.242563	17.43554	10.61856	12.67832	1.273853
SDev	.0005610	.0038788	.009304	.05466	.11664	.00730	.001926
%RSD	.0612877	.4066435	.7487818	.3134749	1.098418	.0576145	.1511969

#1	.9157795	.9511085	1.249142	17.47418	10.70103	12.68348	1.275215
#2	.9149861	.9565939	1.235984	17.39689	10.53608	12.67315	1.272492

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1472.372	1.298341	.9920505	1.204959	.9498926	.9170567	.9327745
SDev	15.707	.007018	.0120558	.002301	.0013880	.0361099	.0021400
%RSD	1.066786	.5405457	1.215237	.1909999	.1461197	3.937587	.2294238

#1	1483.479	1.303303	.9835257	1.203332	.9508740	.8915232	.9312613
#2	1461.265	1.293378	1.000575	1.206587	.9489111	.9425903	.9342877

Elem	Zn2138
Units	ppm
Avge	1.380196
SDev	.000929
%RSD	.0673399

#1	1.380853
#2	1.379538

Method: METALS Sample Name: clf0263-01ps Operator: EAJ  
 Run Time: 07/10/01 21:39:21  
 Element:   
 Unit: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9837729	10.29115	.9961281	5.588124	.9613984	202.6759	1.027435
SDev	.0058279	.03778	.0101450	.025139	.0031986	.7698	.001550
%RSD	.5924071	.3670961	1.018447	.4498721	.3326994	.3798368	.1508193

#1	.9878938	10.31786	1.003302	5.605901	.9636601	203.2202	1.028531
#2	.9796519	10.26444	.9889545	5.570348	.9591366	202.1315	1.026340

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9685390	1.004072	1.226258	16.61260	10.80413	12.60531	1.267272
SDev	.0059832	.006545	.006472	.06658	.08748	.02626	.004173
%RSD	.6177605	.6518024	.5278243	.4007631	.8096658	.2083558	.3292801

#1	.9727698	1.008699	1.230835	16.65968	10.86598	12.62388	1.270223
#2	.9643082	.9994439	1.221682	16.56553	10.74227	12.58673	1.264322

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1226.097	1.293782	1.036022	1.218219	1.010965	.9614554	.9850368
SDev	5.316	.005867	.010273	.025788	.009739	.0511963	.0048712
%RSD	.4335769	.4534774	.9916180	2.116830	.9633325	5.324873	.4945202

#1	1229.856	1.297931	1.043286	1.236454	1.004079	.9976566	.9884813
#2	1222.338	1.289634	1.028757	1.199985	1.017852	.9252542	.9815924

Elem	Zn2138
Units	ppm
Avge	1.321497
SDev	.005800
%RSD	.4388767

#1	1.325598
#2	1.317396

Analysis Report

07/10/01 09:50:42 PM

page 1

Method: METALS Sample Name: clf0263-01psd Operator: EAJ  
 R Time: 07/10/01 21:45:03  
 C ent:  
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9759294	10.25231	.9792161	5.668685	.9544263	205.1986	1.019105
SDev	.0137311	.11803	.0066866	.102161	.0102385	1.5132	.009158
%RSD	1.406977	1.151287	.6828564	1.802204	1.072737	.7374411	.8985992

#1	.9662201	10.16884	.9839442	5.596446	.9471867	204.1286	1.012629
#2	.9856388	10.33577	.9744879	5.740923	.9616661	206.2686	1.025580

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9590043	.9887503	1.224256	16.62923	10.79897	12.55890	1.262960
SDev	.0079997	.0102216	.018204	.15854	.10935	.11812	.013480
%RSD	.8341654	1.033788	1.486908	.9533708	1.012558	.9404996	1.067367

#1	.9533477	.9815226	1.211384	16.51713	10.72165	12.47538	1.253428
#2	.9646609	.9959781	1.237128	16.74133	10.87629	12.64242	1.272492

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1250.203	1.282623	1.028244	1.223801	1.005275	.9603841	.9760820
SDev	20.698	.005315	.005455	.008120	.047190	.0028009	.0093072
%RSD	1.655583	.4143500	.5305145	.6635075	4.694250	.2916449	.9535269

#1	1235.567	1.286381	1.032101	1.218059	.9719069	.9584035	.9695008
#2	1264.839	1.278865	1.024387	1.229543	1.038644	.9623646	.9826632

Elem	Zn2138
Units	ppm
Avge	1.321314
SDev	.000129
%RSD	.0097734

#1	1.321405
#2	1.321223

Method: METALS      Sample Name: clf0263-02      Operator: EAJ  
 Run Time: 07/10/01 21:50:46  
 Comment:  
 Mode: CONC      Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004287	.4924104	-.047460	3.836801	-.000527	248.4843	.1069912
SDev	.0002062	.0185941	.005341	.025941	.000001	.0469	.0027716
%RSD	48.10537	3.776142	11.25424	.6761159	.1686079	.0188797	2.590531

#1	.0002829	.4792624	-.051237	3.818457	-.000527	248.5175	.1089510
#2	.0005746	.5055584	-.043684	3.855144	-.000526	248.4511	.1050313

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031360	.0055439	.3300915	2.114305	.9639176	5.855637	.2545349
SDev	.0002994	.0045082	.0004045	.002653	.0218692	.001463	.0009631
%RSD	9.547194	81.31805	.1225495	.1254814	2.268788	.0249787	.3783672

#1	.0033477	.0087317	.3303776	2.112430	.9793814	5.854603	.2538539
#2	.0029243	.0023561	.3298055	2.116182	.9484537	5.856671	.2552159

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1451.487	.2451938	.0739684	.1312620	-.036662	-.002377	-.000462
SDev	11.509	.0014958	.0071210	.0074876	.038336	.008327	.000526
D	.7929319	.6100360	9.627057	5.704340	104.5658	350.2786	113.8201

#1	1443.349	.2462515	.0790037	.1259674	-.063770	.0035108	-.000090
#2	1459.625	.2441361	.0689331	.1365565	-.009554	-.008265	-.000834

Elem	Zn2138
Units	ppm
Avge	.6130449
SDev	.0087574
%RSD	1.428508

#1	.6068525
#2	.6192373

Method: METALS Sample Name: clf0263-03  
Run Time: 07/10/01 21:56:28  
Element:  
Unit: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003448	.5257171	-.038518	4.731279	-.000634	179.5849	.0048624
SDev	.0047479	.0072549	.002204	.029686	.000069	.0649	.0006906
%RSD	1376.972	1.379994	5.723281	.6274317	10.94400	.0361626	14.20203

#1	-.003012	.5205872	-.036959	4.752270	-.000683	179.6309	.0053507
#2	.0037021	.5308471	-.040077	4.710288	-.000585	179.5390	.0043741

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029495	.0060263	.2222540	6.384534	.9072166	4.728306	.3451476
SDev	.0010373	.0028540	.0040452	.016083	.0728976	.020396	.0000006
%RSD	35.16956	47.35963	1.820099	.2519040	8.035309	.4313605	.0001771

#1	.0022160	.0040082	.2193936	6.395906	.8556701	4.713883	.3451480
#2	.0036829	.0080444	.2251144	6.373162	.9587629	4.742728	.3451472

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1419.966	.2627936	.0604890	.1799956	.0051847	.0193326	.0007426
SDev	8.969	.0068032	.0199833	.0035299	.0436114	.0007774	.0030721
%RSD	.6316531	2.588798	33.03632	1.961094	841.1626	4.021049	413.7144

#1	1426.308	.2676042	.0463586	.1774996	-.025653	.0187829	-.001430
#2	1413.624	.2579830	.0746193	.1824916	.0360226	.0198823	.0029149

Elem	Zn2138
Units	ppm
Avg	.3872603
SDev	.0063587
%RSD	1.641969

#1	.3917565
#2	.3827640

Method: METALS Sample Name: ccb2

Operator: EAJ

Print Time: 07/10/01 22:02:10

Content:

Method: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.000583	L.0037460	L-.002955	L-.000000	L-.000001	L.0017011	L.0023269
SDev	.004132	.0006611	.008791	.001070	.000000	.0072172	.0020783
%RSD	708.3231	17.64805	297.4888	3676e6	15.14044	424.2640	89.31798

#1	L-.003505	L.0042135	L.0032611	L-.000756	L-.000001	L-.003402	L.0037964
#2	L.0023386	L.0032786	L-.009171	L.0007564	L-.000001	L.0068045	L.0008573

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0004104	L-.007256	L-.003432	L.0010992	L.0927835	L.0041270	L.0009079
SDev	.0011743	.003282	.002832	.0011109	.0874771	.0145628	.0009636
%RSD	286.1090	45.23671	82.49578	101.0559	94.28091	352.8691	106.1286

#1	L-.000420	L-.009577	L-.005435	L.0018847	L.0309278	L-.006170	L.0015893
#2	L.0012408	L-.004935	L-.001430	L.0003138	L.1546392	L.0144245	L.0002266

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0849546	L.0110256	L.0052712	L-.004080	L-.008519	L.0137581	L.0006366
SDev	.0051914	.0125923	.0269458	.002260	.050383	.0242317	.0000964
%RSD	6.110838	114.2100	511.1867	55.39068	591.4479	176.1267	15.14031

#1	L.0812837	L.0199296	L.0243248	L-.005678	L.0271077	L.0308925	L.0005685
#2	L.0886255	L.0021215	L-.013782	L-.002482	L-.044145	L-.003376	L.0007048

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avg	L.0004251
SDev	.0020918
%RSD	492.0218

#1	L-.001054
#2	L.0019043

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv2

Operator: EAJ

Run Time: 07/10/01 22:07:52

Content:

Unit: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.992034	1.975316	2.037709	1.938729	2.015403	2.166369	2.122379
SDev	.020684	.009681	.000583	.030488	.023459	.018043	.013421
%RSD	1.038340	.4900755	.0285928	1.572582	1.163970	.8328636	.6323520

#1	2.006659	1.982161	2.038121	1.960288	2.031991	2.179127	2.131869
#2	1.977408	1.968471	2.037297	1.917171	1.998815	2.153611	2.112889

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.046785	2.085486	1.895023	1.990403	18.69588	1.977238	2.029226
SDev	.012108	.011173	.021844	.016703	.35720	.011837	.018620
%RSD	.5915510	.5357404	1.152719	.8391751	1.910576	.5986690	.9176064

#1	2.055347	2.093387	1.910469	2.002214	18.94846	1.985608	2.042393
#2	2.038224	2.077586	1.879577	1.978592	18.44330	1.968868	2.016060

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.900991	2.002647	2.063740	2.047088	2.015303	2.082960	2.028144
SDev	.002967	.033288	.007009	.017570	.005933	.000001	.019348
%RSD	.1560571	1.662179	.3396190	.8582847	.2943770	.0000405	.9539807

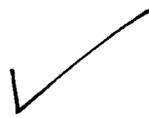
#1	1.903089	2.026185	2.058784	2.059511	2.011108	2.082960	2.041825
#2	1.898894	1.979109	2.068696	2.034664	2.019498	2.082959	2.014463

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avg	1.999628
SDev	.017234
%RSD	.8618567

#1	2.011815
#2	1.987442

Errors	QC Pass
Value	2.000000
Range	10.00000



Method: METALS Sample Name: c1f0263-04 Operator: EAJ  
 F Time: 07/10/01 22:13:35  
 C ent:  
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014998	.3989167	-.024954	3.312973	-.000956	214.0359	.0026404
SDev	.0022524	.0046310	.006499	.022732	.000002	.6471	.0018221
%RSD	150.1823	1.160886	26.04561	.6861557	.2132485	.3023503	69.00898
#1	.0030924	.4021913	-.029549	3.296899	-.000957	213.5783	.0039288
#2	-.000093	.3956422	-.020358	3.329047	-.000954	214.4935	.0013520
Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005244	.0120283	.2282609	6.947140	.8298969	5.112726	.2216401
SDev	.0011773	.0047071	.0012136	.024682	.0947669	.023311	.0006414
%RSD	224.5245	39.13364	.5316620	.3552762	11.41912	.4559324	.2893887
#1	.0013568	.0153567	.2291190	6.929688	.8969073	5.096243	.2211865
#2	-.000308	.0086999	.2274027	6.964593	.7628866	5.129209	.2220936
Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1448.252	.1758882	.0586026	.0810737	-.025556	-.000933	.0037707
SDev	9.794	.0015026	.0285585	.0067844	.016933	.001176	.0012071
%RSD	.6762588	.8543098	48.73255	8.368140	66.25884	125.9777	32.01306
#1	1441.326	.1748257	.0787965	.0858709	-.037529	-.000102	.0046243
#2	1455.177	.1769507	.0384086	.0762764	-.013582	-.001765	.0029172
Elem	Zn2138						
Units	ppm						
Avge	.2954823						
SDev	.0008600						
%RSD	.2910588						
#1	.2948742						
#2	.2960905						

Method: METALS Sample Name: c1f0263-05 Operator: EAJ  
 Run Time: 07/10/01 22:19:17  
 Comment:  
 Method: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004478	.6284958	-.012517	9.466529	-.005567	409.7857	.0105401
SDev	.0015035	.0185673	.005647	.085847	.000039	2.4334	.0006882
%RSD	335.7487	2.954235	45.11354	.9068519	.7028360	.5938222	6.529803

#1	.0015110	.6153668	-.016510	9.527232	-.005540	411.5063	.0110268
#2	-.000615	.6416249	-.008524	9.405826	-.005595	408.0650	.0100534

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038583	.0055859	.3964531	4.321753	1.278351	2.241308	.4423845
SDev	.0002627	.0043171	.0028317	.032644	.014579	.021877	.0038519
%RSD	6.809331	77.28677	.7142530	.7553318	1.140488	.9761005	.8707144

#1	.0040441	.0086386	.3984554	4.344836	1.268041	2.256778	.4451082
#2	.0036725	.0025332	.3944508	4.298671	1.288660	2.225838	.4396608

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1477.407	.4369036	.1978283	.3926504	-.002159	.0351877	.0023651
SDev	14.275	.0144054	.0118571	.0136851	.021773	.0047948	.0010909
D	.9662184	3.297160	5.993615	3.485304	1008.706	13.62625	46.12688

#1	1487.501	.4267175	.1894441	.3829736	-.017554	.0385782	.0015937
#2	1467.313	.4470898	.2062125	.4023272	.0132374	.0317973	.0031365

Elem	Zn2138
Units	ppm
Avg	.5244856
SDev	.0026381
%RSD	.5029957

#1	.5263510
#2	.5226201

Method: METALS Sample Name: clf0263-06 Operator: EAJ  
 Run Time: 07/10/01 22:24:59  
 Element:  
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.004697	1.602999	.0019910	10.44497	-.002692	183.0382	.0233198
SDev	.002579	.025233	.0104612	.25219	.000147	1.6407	.0009227
%RSD	54.90206	1.574121	525.4243	2.414508	5.476146	.8963809	3.956691

#1	-.002874	1.585157	.0093881	10.26664	-.002588	181.8780	.0226674
#2	-.006521	1.620842	-.005406	10.62330	-.002796	184.1984	.0239723

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0155347	.0091959	.4207666	15.82859	1.340206	3.307173	.7079598
SDev	.0024420	.0030476	.0072814	.21379	.058318	.020446	.0083466
%RSD	15.71984	33.14068	1.730512	1.350642	4.351426	.6182404	1.178970

#1	.0172615	.0113509	.4156179	15.67742	1.381443	3.292715	.7020578
#2	.0138079	.0070410	.4259153	15.97976	1.298969	3.321631	.7138618

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1499.728	.8813980	.0129551	.5252224	-.027603	.0073003	.0014753
SDev	32.529	.0143298	.0039631	.0366230	.014566	.0483589	.0010313
%RSD	2.169015	1.625804	30.59067	6.972847	52.77045	662.4226	69.90298

#1	1476.726	.8712652	.0157574	.4993261	-.037903	.0414953	.0022045
#2	1522.730	.8915306	.0101528	.5511188	-.017303	-.026895	.0007461

Elem	Zn2138
Units	ppm
Avge	.8295274
SDev	.0119266
%RSD	1.437757

#1	.8210940
#2	.8379607

Method: METALS Sample Name: c1f0263-07

Operator: EAJ

Run Time: 07/10/01 22:30:42

Element:

Unit: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002736	1.568283	-.016277	10.45764	-.002559	173.7178	.0234014
SDev	.004979	.011965	.003960	.02835	.000036	.2622	.0017380
%RSD	181.9646	.7629301	24.32693	.2710839	1.400482	.1509519	7.426915

#1	.0007844	1.576743	-.013477	10.47769	-.002584	173.9032	.0221724
#2	-.006256	1.559822	-.019077	10.43759	-.002533	173.5324	.0246303

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0172038	.0091827	.4038902	15.68357	1.402062	3.255467	.6773143
SDev	.0005722	.0047283	.0052588	.04253	.087477	.029142	.0009623
%RSD	3.326166	51.49175	1.302034	.2711790	6.239178	.8951767	.1420754

#1	.0176084	.0125261	.4076087	15.71364	1.340206	3.276074	.6779948
#2	.0167992	.0058392	.4001716	15.65350	1.463917	3.234861	.6766339

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1494.759	.8219954	.0053435	.5766267	.0304833	-.009211	.0007535
SDev	5.177	.0059087	.0307490	.0016045	.0314046	.017462	.0008343
%RSD	.3463620	.7188231	575.4417	.2782470	103.0224	189.5746	110.7329

#1	1498.420	.8261735	.0270864	.5754921	.0082769	-.021558	.0001635
#2	1491.098	.8178173	-.016399	.5777612	.0526897	.0031363	.0013434

Elem	Zn2138
Units	ppm
Avg	.6190720
SDev	.0000755
%RSD	.0122001

#1	.6191254
#2	.6190186

Method: METALS Sample Name: c1f0263-08

Operator: EAJ

Run Time: 07/10/01 22:36:24

( ent:

: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.003278	.8955981	-.061532	8.149962	-.000424	224.1039	.0236327
SDev	.000847	.0019793	.013730	.025407	.000001	.6724	.0018156
%RSD	25.82510	.2210032	22.31287	.3117413	.3017892	.3000427	7.682404

#1	-.002680	.8941985	-.051824	8.167928	-.000423	224.5794	.0249165
#2	-.003877	.8969976	-.071240	8.131997	-.000425	223.6285	.0223489

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0054509	.0085635	.8804348	5.720499	1.257732	5.198517	.4189133
SDev	.0001678	.0016469	.0068769	.022047	.029159	.011664	.0016049
%RSD	3.077572	19.23196	.7810789	.3854008	2.318390	.2243760	.3831127

#1	.0053323	.0097281	.8852975	5.736088	1.278351	5.206765	.4200481
#2	.0055695	.0073990	.8755721	5.704909	1.237113	5.190270	.4177784

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1444.492	.5734277	.1339441	.2103883	-.017325	-.024503	.0012927
SDev	9.175	.0318131	.0306031	.0051287	.015806	.014277	.0007599
%RSD	.6351981	5.547879	22.84767	2.437747	91.23124	58.26799	58.78489

#1	1450.980	.5959229	.1555837	.2140148	-.028501	-.034599	.0007553
#2	1438.004	.5509324	.1123044	.2067617	-.006148	-.014407	.0018300

Elem	Zn2138
Units	ppm
Avge	.9984306
SDev	.0033299
%RSD	.3335130

#1	1.000785
#2	.9960760

Method: METALS Sample Name: c1f0263-09  
 Run Time: 07/10/01 22:42:06  
 ( ent:  
 N : CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006351	.7297151	-.056304	5.296521	.0000485	139.6912	.0146862
SDev	.0008088	.0099433	.011997	.012837	.0000004	.6339	.0033796
%RSD	127.3496	1.362631	21.30746	.2423715	.8790613	.4537938	23.01221

#1	.0012071	.7367461	-.047821	5.287444	.0000481	139.2430	.0170759
#2	.0000632	.7226841	-.064787	5.305598	.0000488	140.1395	.0122964

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0906639	.0196680	1.144165	4.013050	1.185567	4.412142	.3360765
SDev	.0026251	.0008257	.000405	.015214	.087477	.030604	.0012833
%RSD	2.895443	4.198215	.0353555	.3791132	7.378499	.6936315	.3818438

#1	.0888077	.0190841	1.144451	4.002292	1.123711	4.390502	.3351691
#2	.0925202	.0202518	1.143879	4.023808	1.247423	4.433783	.3369839

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1108.950	1.150461	.0891588	.3427548	-.010616	.0084094	.0025340
SDev	.505	.014528	.0254882	.0170630	.029366	.0599534	.0002523
%RSD	.0455421	1.262792	28.58747	4.978183	276.6099	712.9301	9.958501

#1	1109.307	1.140189	.0711359	.3306895	-.031381	.0508029	.0027124
#2	1108.592	1.160734	.1071817	.3548202	.0101484	-.033984	.0023555

Elem	Zn2138
Units	ppm
Avge	1.371935
SDev	.015289
%RSD	1.114413

#1	1.361124
#2	1.382746

Method: METALS Sample Name: c1f0263-10 Operator: EAJ  
 Run Time: 07/10/01 22:47:48  
 Element:  
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.004558	1.537706	-.007364	8.582830	-.003220	204.7070	.0367301
SDev	.001605	.011275	.002036	.080231	.000002	1.4098	.0001816
%RSD	35.21485	.7332156	27.64985	.9347897	.0623165	.6886762	.4943314

#1	-.005694	1.529734	-.005924	8.639563	-.003219	205.7038	.0366018
#2	-.003423	1.545679	-.008803	8.526098	-.003221	203.7101	.0368585

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0053325	.0069973	.8815789	7.959366	1.257732	8.780558	.4882723
SDev	.0026663	.0006294	.0068769	.059740	.058318	.042266	.0035303
%RSD	50.00119	8.994877	.7800652	.7505575	4.636773	.4813536	.7230152

#1	.0034471	.0074424	.8864416	8.001608	1.216495	8.810444	.4907686
#2	.0072179	.0065523	.8767163	7.917123	1.298969	8.750671	.4857760

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1247.408	.7213753	.0546911	.4340450	.0132478	-.011649	.0019489
SDev	13.302	.0075822	.0091991	.0257237	.0169175	.047686	.0011887
%RSD	1.066359	1.051072	16.82011	5.926494	127.7006	409.3731	60.99427

#1	1256.813	.7267368	.0481864	.4158557	.0252103	.0220707	.0011083
#2	1238.002	.7160140	.0611959	.4522344	.0012853	-.045368	.0027895

Elem	Zn2138
Units	ppm
Avge	.5313902
SDev	.0057920
%RSD	1.089969

#1	.5354858
#2	.5272947

Method: METALS      Sample Name: clf0263-11      Operator: EAJ  
 Run Time: 07/10/01 22:53:31  
 Comment:  
 Method: CONC      Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0032188	.3623686	-.043765	7.306922	-.000107	416.7772	.0084916
SDev	.0083020	.0271886	.008578	.176242	.000071	3.9202	.0012501
%RSD	257.9253	7.503033	19.60113	2.411986	66.56153	.9405891	14.72122

#1	.0090892	.3815939	-.037699	7.182300	-.000057	414.0053	.0093755
#2	-.002652	.3431434	-.049830	7.431544	-.000157	419.5492	.0076077

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015818	.0213902	.4290618	19.82854	.9793814	3.140583	.4439466
SDev	.0013805	.0192397	.0004045	.26884	.1312157	.008775	.0054575
%RSD	87.27148	89.94643	.0942765	1.355818	13.39782	.2794006	1.229317

#1	.0025579	.0349948	.4293478	19.63845	1.072165	3.134378	.4400876
#2	.0006057	.0077857	.4287758	20.01864	.8865979	3.146787	.4478057

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1262.492	.1258126	.0932727	.0776286	-.015460	-.000717	.0008557
SDev	29.860	.0037085	.0063856	.0296564	.035066	.011856	.0020228
D	2.365183	2.947644	6.846123	38.20293	226.8253	1652.742	236.3902

#1	1241.378	.1231903	.0887574	.0566584	.0093360	.0076663	.0022861
#2	1283.606	.1284349	.0977880	.0985988	-.040255	-.009101	-.000575

Elem	Zn2138
Units	ppm
Avge	.4814877
SDev	.0019577
%RSD	.4065897

#1	.4828719
#2	.4801034

Method: METALS Sample Name: c1f0263-11s Operator: EAJ  
 Run Time: 07/10/01 22:59:13  
 Element:  
 Method: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9498299	9.806743	.9524624	8.051438	.9273179	416.5621	.9760488
SDev	.0080719	.002650	.0135702	.005349	.0010072	.4932	.0019069
%RSD	.8498282	.0270242	1.424748	.0664346	.1086125	.1183907	.1953685

#1	.9555376	9.804869	.9620580	8.055221	.9280300	416.9108	.9747004
#2	.9441222	9.808617	.9428669	8.047656	.9266056	416.2133	.9773971

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9240691	.9632473	1.323513	28.48491	10.74742	12.32558	1.353773
SDev	.0004382	.0082090	.007281	.01212	.09477	.04079	.000001
%RSD	.0474253	.8522198	.5501616	.0425468	.8817650	.3309493	.0000872

#1	.9243790	.9690520	1.328661	28.49348	10.68041	12.35442	1.353772
#2	.9237592	.9574427	1.318364	28.47634	10.81443	12.29673	1.353774

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1242.505	1.021852	1.038261	1.067851	.9974987	.9512272	.9471224
SDev	.535	.006907	.009916	.033393	.0335155	.0107179	.0002268
%RSD	.0430366	.6759487	.9550971	3.127139	3.359955	1.126749	.0239498

#1	1242.883	1.016968	1.031249	1.044239	.9737997	.9588060	.9469621
#2	1242.127	1.026736	1.045272	1.091464	1.021198	.9436485	.9472829

Elem	Zn2138
Units	ppm
Avge	1.595344
SDev	.006041
%RSD	.3786850

#1	1.591072
#2	1.599616

Method: METALS      Sample Name: clf0263-11sd      Operator: EAJ  
 Run Time: 07/10/01 23:04:56  
 Comment:  
 Mode: CONC      Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9043997	9.796885	.9465882	7.915091	.9278983	408.1756	.9753019
SDev	.0059189	.096151	.0123637	.092267	.0089750	2.2301	.0031711
%RSD	.6544554	.9814424	1.306137	1.165704	.9672354	.5463636	.3251433

#1	.9002144	9.728896	.9378456	7.849849	.9215520	406.5986	.9730595
#2	.9085850	9.864874	.9553306	7.980334	.9342445	409.7525	.9775442

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9227786	.9642239	1.310355	28.13370	10.68557	12.25033	1.346511
SDev	.0028867	.0002150	.009709	.23694	.06561	.07730	.010271
%RSD	.3128247	.0222968	.7409083	.8421910	.6139821	.6309705	.7627938

#1	.9207374	.9643759	1.303490	27.96616	10.63918	12.19567	1.339248
#2	.9248198	.9640719	1.317220	28.30124	10.73196	12.30499	1.353774

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1220.271	1.017477	.9899105	1.023072	1.008284	.9343381	.9468852
SDev	14.326	.004277	.0012794	.009119	.033526	.0401337	.0067193
%RSD	1.174008	.4203346	.1292493	.8913741	3.325034	4.295415	.7096173

#1	1210.141	1.014453	.9890057	1.016623	1.031991	.9059593	.9421340
#2	1230.401	1.020501	.9908152	1.029520	.9845779	.9627169	.9516364

Elem	Zn2138
Units	ppm
Avge	1.494698
SDev	.019194
%RSD	1.284134

#1	1.481126
#2	1.508270

Method: METALS Sample Name: ccb2

Operator: EAJ

R Time: 07/10/01 23:10:38

Content:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.000439	L.0037566	L-.007749	L-.000756	L.0000266	L.0000000	L.0018373
SDev	.002279	.0204993	.022862	.001070	.0000281	.0048115	.0022514
%RSD	519.0751	545.6874	295.0299	141.4214	105.5221	.0000000	122.5367

#1	L.0011722	L.0182518	L.0084167	L-.000000	L.0000464	L.0034022	L.0034292
#2	L-.002050	L-.010739	L-.023914	L-.001513	L.0000067	L-.003402	L.0002453

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.000205	L-.004787	L-.001430	L-.001244	L.0824742	L-.010300	L.0002273
SDev	.003213	.005509	.007281	.002209	.1895338	.032058	.0006411
%RSD	1565.730	115.0802	509.1168	177.5838	229.8098	311.2533	282.0355

#1	L.0020668	L-.000892	L.0037185	L.0003181	.2164948	L.0123686	L.0006807
#2	L-.002477	L-.008682	L-.006579	L-.002806	L-.051546	L-.032968	L-.000226

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.0755152	L-.004230	L-.022878	L-.010670	L-.025125	L-.027509	L-.000137
SDev	.0437562	.006187	.009912	.014311	.014842	.019025	.005463
%RSD	57.94354	146.2747	43.32586	134.1280	59.07309	69.15869	3993.244

#1	L.1064555	L.0001452	L-.015869	L-.000550	L-.035620	L-.014056	L.0037262
#2	L.0445749	L-.008605	L-.029887	L-.020789	L-.014630	L-.040961	L-.004000

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avge	L-.000669
SDev	.001259
%RSD	188.1358

#1	L.0002211
#2	L-.001559

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv2

Operator: EAJ

Time: 07/10/01 23:16:20

Content:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.011055	2.020058	2.069303	1.961233	2.042705	2.190185	2.145646
SDev	.002903	.003206	.028909	.004012	.006288	.003608	.013595
%RSD	.1443390	.1586846	1.397058	.2045459	.3078423	.1647553	.6336271

#1	2.013108	2.022325	2.089745	1.964070	2.047151	2.192736	2.155259
#2	2.009003	2.017792	2.048861	1.958397	2.038258	2.187633	2.136033

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.068572	2.109136	1.920194	2.012899	18.99485	2.021763	2.051927
SDev	.004957	.011234	.004854	.008440	.00729	.027743	.007062
%RSD	.2396246	.5326426	.2527984	.4192953	.0383773	1.372239	.3441787

#1	2.072077	2.117080	1.923627	2.018867	19.00000	2.041380	2.056920
#2	2.065067	2.101192	1.916762	2.006931	18.98969	2.002145	2.046933

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.940846	2.033100	2.074809	2.090641	2.023652	2.072535	2.052165
SDev	.004450	.012965	.018009	.034461	.000479	.061534	.007950
%RSD	.2292744	.6376817	.8679923	1.648367	.0236513	2.969008	.3873830

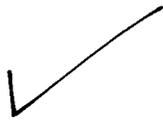
#1	1.937700	2.042268	2.087543	2.115010	2.023990	2.116046	2.057786
#2	1.943993	2.023933	2.062074	2.066274	2.023313	2.029024	2.046544

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avge	2.029265
SDev	.014745
%RSD	.7266008

#1	2.039691
#2	2.018839

Errors	QC Pass
Value	2.000000
Range	10.00000



Method: METALS Sample Name: clf0263-11ps Operator: EAJ  
 R Time: 07/10/01 23:22:03  
 C ent:  
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.001097	10.19849	.9821206	6.932301	.9745868	347.2935	1.028219
SDev	.002718	.05172	.0054645	.038511	.0033125	.2033	.001722
%RSD	.2714609	.5071596	.5563945	.5555312	.3398908	.0585314	.1675185

#1	.9991752	10.16191	.9859846	6.905069	.9722446	347.1498	1.027001
#2	1.003019	10.23506	.9782567	6.959532	.9769292	347.4373	1.029437

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9719222	1.014590	1.299771	25.88432	10.94845	12.33693	1.334023
SDev	.0014491	.002449	.007686	.06855	.05832	.01605	.002889
%RSD	.1490999	.2413934	.5913271	.2648231	.5326635	.1301152	.2165566

#1	.9708974	1.012858	1.294336	25.83585	10.90722	12.32558	1.331980
#2	.9729468	1.016322	1.305206	25.93279	10.98969	12.34828	1.336065

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1046.473	1.054994	1.035437	1.097117	1.043567	1.001741	.9975240
SDev	6.778	.008673	.028336	.006755	.051278	.062332	.0035811
%RSD	.6476766	.8221276	2.736632	.6156777	4.913718	6.222322	.3589980

#1	1041.681	1.061127	1.055473	1.101894	1.079827	1.045816	.9949918
#2	1051.266	1.048861	1.015400	1.092341	1.007308	.9576660	1.000056

Elem	Zn2138
Units	ppm
Avge	1.383039
SDev	.003874
%RSD	.2800811

#1	1.385779
#2	1.380300

Method: METALS Sample Name: c1f0263-11psd Operator: EAJ  
 Run Time: 07/10/01 23:27:45  
 ( ent:  
 M : CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.009865	10.19517	.9963449	6.931922	.9791949	351.9742	1.034811
SDev	.010842	.09352	.0093100	.054558	.0084182	1.7273	.004480
%RSD	1.073653	.9173384	.9344140	.7870483	.8597106	.4907541	.4329089

#1	1.002199	10.12904	.9897617	6.893344	.9732423	350.7527	1.031643
#2	1.017532	10.26130	1.002928	6.970500	.9851475	353.1956	1.037979

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9789482	1.020968	1.301487	26.04126	10.98969	12.38747	1.341513
SDev	.0037770	.007375	.012540	.16794	.02916	.11078	.006418
%RSD	.3858212	.7223561	.9635352	.6449100	.2653294	.8942590	.4783929

#1	.9762775	1.015753	1.292620	25.92251	11.01031	12.30914	1.336975
#2	.9816190	1.026183	1.310355	26.16002	10.96907	12.46580	1.346051

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1046.930	1.061147	1.058153	1.127041	1.052530	.9806904	1.001095
SDev	7.901	.002183	.001411	.011836	.005478	.0230347	.005214
D	.7546421	.2057641	.1333130	1.050155	.5204916	2.348828	.5208621

#1	1041.343	1.059603	1.059150	1.118672	1.048657	.9644024	.9974078
#2	1052.516	1.062691	1.057155	1.135410	1.056404	.9969784	1.004782

Elem	Zn2138
Units	ppm
Avge	1.394013
SDev	.016817
%RSD	1.206405

#1	1.382121
#2	1.405904

Method: METALS Sample Name: clf0263-12 Operator: EAJ  
 Run Time: 07/10/01 23:33:27  
 Comment:  
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013573	1.049537	-.054492	5.988276	-.000899	267.5172	.0099592
SDev	.0018480	.008627	.004348	.028883	.000001	.1131	.0006023
%RSD	136.1499	.8219936	7.978476	.4823326	.1607145	.0422602	6.047672

#1	.0026640	1.055637	-.057566	5.967852	-.000900	267.4373	.0095333
#2	.0000506	1.043436	-.051417	6.008699	-.000898	267.5972	.0103851

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007471	.0197354	.5849543	15.90688	1.195876	6.825748	.3761857
SDev	.0032272	.0014282	.0016181	.02797	.014580	.008730	.0009634
%RSD	431.9786	7.236653	.2766130	.1758486	1.219150	.1278950	.2560894

#1	.0030290	.0207452	.5838101	15.88710	1.206186	6.819575	.3768669
#2	-.001535	.0187255	.5860984	15.92666	1.185567	6.831921	.3755045

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1227.464	.1186698	.0544764	.2553167	-.031419	.0024429	.0012710
SDev	5.213	.0062108	.0139652	.0382115	.006730	.0297895	.0008556
D	.4246910	5.233655	25.63537	14.96634	21.41894	1219.418	67.31151

#1	1223.777	.1230614	.0643513	.2282970	-.026661	-.018621	.0018760
#2	1231.150	.1142781	.0446015	.2823363	-.036178	.0235073	.0006661

Elem	Zn2138
Units	ppm
Avge	.3481785
SDev	.0020340
%RSD	.5841972

#1	.3496168
#2	.3467403

Method: METALS Sample Name: c1f0263-13

Operator: EAJ

Time: 07/10/01 23:39:10

Content:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.000090	1.689215	.0733548	14.07470	-.013528	318.4937	.0315384
SDev	.000121	.043187	.0004695	.20085	.000108	2.0389	.0017996
%RSD	134.4623	2.556618	.6399896	1.426997	.7976471	.6401591	5.706181
#1	-.000004	1.658678	.0736868	13.93268	-.013452	317.0520	.0302658
#2	-.000176	1.719753	.0730229	14.21672	-.013604	319.9354	.0328109
Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1062547	.0187474	1.627860	14.86244	1.783505	7.128312	.7773117
SDev	.0002056	.0034601	.017799	.13578	.116636	.013158	.0070626
%RSD	.1934999	18.45626	1.093395	.9135979	6.539721	.1845866	.9085971
#1	.1061094	.0211940	1.615275	14.76643	1.865979	7.119008	.7723177
#2	.1064001	.0163007	1.640446	14.95846	1.701031	7.137616	.7823058
Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1284.745	2.586049	.0089908	.5361655	.0026639	.0112554	.0013278
SDev	15.965	.028799	.0354874	.0097464	.0252756	.0111751	.0023087
%RSD	1.242670	1.113640	394.7068	1.817792	948.8333	99.28688	173.8717
#1	1273.456	2.565685	.0340842	.5430572	.0205365	.0033534	.0029603
#2	1296.034	2.606413	-.016103	.5292737	-.015209	.0191574	-.000305
Elem	Zn2138						
Units	ppm						
Avge	.6295125						
SDev	.0016995						
%RSD	.2699688						
#1	.6283109						
#2	.6307143						

Method: METALS Sample Name: c1f0263-15 Operator: EAJ  
 Run Time: 07/10/01 23:44:52  
 Comment:  
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0030864	.1868112	-.078336	3.897693	-.000002	449.2941	.0026169
SDev	.0018848	.0231974	.005025	.028616	.000004	.9899	.0016422
%RSD	61.06807	12.41757	6.415273	.7341742	218.6170	.2203335	62.75274

#1	.0044192	.1704081	-.074782	3.917927	.0000010	449.9941	.0037781
#2	.0017537	.2032142	-.081889	3.877459	-.000005	448.5941	.0014557

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0036260	.0086856	.1701945	7.114931	.8092784	3.378410	.2709543
SDev	.0006000	.0012163	.0016181	.023357	.0510284	.005828	.0003209
%RSD	16.54824	14.00336	.9507244	.3282783	6.305416	.1725191	.1184277

#1	.0032017	.0078256	.1713387	7.131446	.8453609	3.382531	.2711812
#2	.0040503	.0095457	.1690503	7.098415	.7731959	3.374289	.2707274

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1221.550	.7674787	.2108268	.0409618	-.034799	.0151395	.0010525
SDev	11.625	.0100049	.0115179	.0123966	.020750	.0043533	.0023009
D	.9516639	1.303601	5.463200	30.26393	59.62730	28.75485	218.6159

#1	1229.770	.7745532	.2026824	.0497275	-.049471	.0120612	-.000575
#2	1213.330	.7604042	.2189712	.0321960	-.020127	.0182177	.0026795

Elem	Zn2138
Units	ppm
Avge	.2516965
SDev	.0012574
%RSD	.4995651

#1	.2525856
#2	.2508074

Method: METALS Sample Name: 7-6 ext 1 Operator: EAJ  
 Run Time: 07/10/01 23:50:35  
 Comment:  
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009135	.0145421	-.015220	.0155068	-.000002	1.473165	.0018347
SDev	.0057852	.0079589	.000179	.0016046	.000150	.000000	.0015587
%RSD	633.3249	54.73017	1.178423	10.34790	7737.862	.0000000	84.95716

#1	-.003177	.0201699	-.015347	.0143722	-.000108	1.473165	.0007325
#2	.0050043	.0089143	-.015094	.0166414	.0001042	1.473165	.0029369

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0027846	.0018841	.0002860	.0171584	.3969072	.1627716	.0022653
SDev	.0007345	.0063617	.0072814	.0008844	.0656079	.0233093	.0003204
%RSD	26.37742	337.6467	2545.584	5.154035	16.52978	14.32026	14.14174

#1	.0033040	-.002614	-.004863	.0165331	.4432990	.1462894	.0020387
#2	.0022652	.0063825	.0054348	.0177838	.3505155	.1792538	.0024918

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1164.862	.0016276	-.001480	-.005407	-.020453	-.010670	.0011493
SDev	9.964	.0004950	.024264	.005972	.017003	.012713	.0005735
D	.8553628	30.41328	1639.452	110.4608	83.12876	119.1421	49.89892

#1	1171.908	.0012776	.0156774	-.009630	-.008431	-.019660	.0015549
#2	1157.817	.0019776	-.018637	-.001184	-.032476	-.001681	.0007438

Elem	Zn2138
Units	ppm
Avge	.1018222
SDev	.0002327
%RSD	.2285646

#1	.1019868
#2	.1016577

Method: METALS Sample Name: ccb2

Operator: EAJ

Time: 07/10/01 23:56:17

Content:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.001461	L-.002828	L-.012633	L-.000946	L-.000001	L-.000000	L-.001041
SDev	.001655	.016545	.000389	.000802	.000004	.000000	.000260
%RSD	113.2985	585.0270	3.080834	84.85281	599.1978	.0000000	24.96020

#1	L-.000291	L.0088709	L-.012908	L-.000378	L-.000003	L-.000000	L-.001225
#2	L-.002631	L-.014527	L-.012358	L-.001513	L.0000021	L-.000000	L-.000857

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.001446	L-.009575	L-.006579	L-.000151	L.0412371	L-.016480	L.0004545
SDev	.003220	.008193	.004854	.000217	.0145795	.020388	.0003217
%RSD	222.6697	85.56676	73.78506	143.4632	35.35531	123.7082	70.76842

#1	L-.003723	L-.003782	L-.003146	L.0000022	L.0309278	L-.002064	L.0002271
#2	L.0008308	L-.015368	L-.010011	L-.000305	L.0515463	L-.030897	L.0006820

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0734176	L.0038033	L.0056276	L-.010683	L-.020095	L.0367857	L.0003880
SDev	.0140910	.0000125	.0117849	.007549	.052531	.0154775	.0023250
%RSD	19.19293	.3277024	209.4111	70.65798	261.4099	42.07471	599.1894

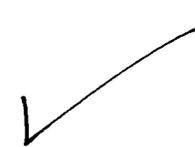
#1	L.0833814	L.0038121	L-.002706	L-.005346	L.0170498	L.0258415	L.0020320
#2	L.0634537	L.0037945	L.0139608	L-.016021	L-.057240	L.0477300	L-.001256

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avg	L.0001524
SDev	.0000978
%RSD	64.21113

#1	L.0002216
#2	L.0000832

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv2  
 Run Time: 07/11/01 00:01:59  
 Element:  
 Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.996869	1.979405	2.054062	1.941188	2.032125	2.177426	2.139340
SDev	.013036	.005521	.014072	.024337	.013955	.014434	.011603
%RSD	.6528187	.2789257	.6851057	1.253714	.6867438	.6629135	.5423491

#1	1.987651	1.983309	2.044111	1.923979	2.022258	2.167220	2.131136
#2	2.006087	1.975501	2.064013	1.958397	2.041994	2.187633	2.147544

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.063735	2.094263	1.901030	2.002523	18.66495	1.988710	2.042166
SDev	.016216	.011805	.018204	.014711	.13851	.007450	.017658
%RSD	.7857801	.5636905	.9575632	.7346116	.7420647	.3746086	.8646461

#1	2.052268	2.085916	1.888158	1.992121	18.56701	1.983442	2.029680
#2	2.075202	2.102611	1.913902	2.012925	18.76289	1.993977	2.054651

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.917248	2.001909	2.070620	2.104442	2.021005	2.092747	2.040084
SDev	.008158	.003070	.010084	.049708	.002715	.012291	.016288
%RSD	.4255028	.1533482	.4870230	2.362044	.1343274	.5873159	.7983856

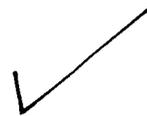
#1	1.911479	1.999738	2.063489	2.069293	2.022925	2.084055	2.028567
#2	1.923016	2.004080	2.077750	2.139590	2.019085	2.101438	2.051601

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avge	2.013600
SDev	.003628
%RSD	.1801665

#1	2.011035
#2	2.016165

Errors	QC Pass
Value	2.000000
Range	10.00000



Method: METALS Sample Name: icsa  
 Run Time: 07/11/01 00:07:41  
 Comment:  
 Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006005	490.3835	.0749708	-.000378	.0000023	505.4470	.0043958
SDev	.004481	8.6554	.0254543	.001605	.0000695	5.7810	.0030083
%RSD	74.61696	1.765033	33.95232	424.2640	3037.195	1.143736	68.43604

#1	-.009173	496.5038	.0929698	-.001513	-.000047	509.5348	.0065229
#2	-.002837	484.2632	.0569719	.0007564	.0000514	501.3592	.0022686

Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value		500.0000				500.0000	
Range		20.00000				20.00000	

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001043	.0081241	.0037185	181.1815	.0051546	520.6614	-.016528
SDev	.003214	.0103009	.0088995	2.0185	.1093464	5.5706	.000488
%RSD	308.2736	126.7954	239.3285	1.114092	2121.337	1.069905	2.953579

#1	-.003316	.0008402	-.002574	182.6088	-.072165	524.6003	-.016873
#2	.0012302	.0154080	.0100114	179.7542	.0824742	516.7224	-.016183

Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value				200.0000		500.0000	
Range				20.00000		20.00000	

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0167811	.0126844	.0393332	-.004528	.1744606	-.047834	-.001355
SDev	.0393064	.0077256	.0341998	.010042	.0115056	.059577	.003013
%RSD	234.2300	60.90608	86.94899	221.7611	6.594945	124.5486	222.2768

#1	-.011013	.0072216	.0151503	-.011629	.1825963	-.005707	-.003486
#2	.0445749	.0181473	.0635161	.0025726	.1663250	-.089962	.0007749

Errors	NOCHECK						
Value							
Range							

Elem	Zn2138
Units	ppm
Avg	.0060917
SDev	.0033729
%RSD	55.36928

#1	.0037067
#2	.0084767

Errors	NOCHECK
Value	
Range	



Method: METALS Sample Name: icsab  
Run Time: 07/11/01 00:13:23  
Concentration:  
Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9677688	485.5757	1.026781	.4708775	.4676929	501.5616	.9536460
SDev	.0019580	3.4976	.031563	.0026744	.0020835	2.3528	.0008713
%RSD	.2023184	.7202948	3.073962	.5679579	.4454910	.4690992	.0913609

#1	.9691533	488.0488	1.049099	.4727686	.4691662	503.2253	.9530299
#2	.9663843	483.1025	1.004463	.4689864	.4662196	499.8979	.9542621

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000000	500.0000	1.000000	.5000000	.5000000	500.0000	1.000000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4519926	.4842129	.4713959	179.3193	.1134020	515.6000	.4476421
SDev	.0004395	.0003112	.0028317	.6566	.0291590	2.0948	.0009003
%RSD	.0972424	.0642718	.6007007	.3661388	25.71297	.4062881	.2011249

#1	.4523033	.4844330	.4693936	179.7835	.0927835	517.0812	.4482787
#2	.4516818	.4839929	.4733982	178.8550	.1340206	514.1187	.4470055

Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.5000000	.5000000	.5000000	200.0000		500.0000	.5000000
Range	20.00000	20.00000	20.00000	20.00000		20.00000	20.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9622948	.8836209	.9618676	.9923636	1.150450	.9079044	.4659011
SDev	.0103828	.0039651	.0043406	.0070906	.089211	.0742481	.0027231
%RSD	1.078962	.4487369	.4512700	.7145138	7.754433	8.177967	.5844820

#1	.9549531	.8808171	.9649368	.9873498	Q1.213532	.8554030	.4678266
#2	.9696366	.8864247	.9587983	.9973773	1.087368	.9604057	.4639756

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	.5000000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	Zn2138
Units	ppm
Avg	.9514307
SDev	.0053147
%RSD	.5586027

#1	.9551888
#2	.9476727

Errors	QC Pass
Value	1.000000
Range	20.00000



Method: METALS Sample Name: ccb2  
Run Time: 07/11/01 00:19:05  
Concentration:  
Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.002631	L-.010776	L-.006596	L-.001135	L.0000024	L.0059539	L.0012246
SDev	.002065	.014592	.005966	.001070	.0000755	.0036086	.0008664
%RSD	78.49384	135.4123	90.45282	94.28089	3157.171	60.60915	70.75111

#1	L-.001170	L-.021094	L-.010814	L-.000378	L.0000558	L.0034022	L.0018372
#2	L-.004091	L-.000458	L-.002377	L-.001891	L-.000051	L.0085056	L.0006119

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.001035	L-.009856	L-.006865	L.0012529	L.1237113	L-.014418	L.0006815
SDev	.000584	.006977	.005259	.0026500	.0874771	.017478	.0006426
%RSD	56.40330	70.78898	76.60323	211.5150	70.71069	121.2208	94.29807

#1	L-.000622	L-.004922	L-.003146	L-.000621	L.0618556	L-.002059	L.0002271
#2	L-.001448	L-.014789	L-.010584	L.0031267	L.1855670	L-.026777	L.0011359

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0440505	L.0076532	L-.001044	L-.003377	L-.027242	L-.027496	L-.001417
SDev	.0066747	.0033852	.008441	.004925	.020006	.033355	.000571
%RSD	15.15232	44.23325	808.6899	145.8363	73.43971	121.3076	40.31137

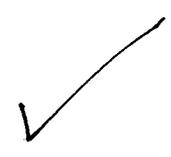
#1	L.0393308	L.0052594	L-.007012	L.0001054	L-.013095	L-.051082	L-.001821
#2	L.0487702	L.0100469	L.0049249	L-.006860	L-.041389	L-.003911	L-.001013

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avg	L-.002611
SDev	.000758
%RSD	29.01438

#1	L-.002076
#2	L-.003147

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv2

Operator: EAJ

Run Time: 07/11/01 00:24:48

Content:

M : CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.003872	1.994002	2.047309	1.955371	2.027418	2.160415	2.104742
SDev	.009722	.004763	.000253	.015511	.010426	.014434	.004588
%RSD	.4851699	.2388460	.0123766	.7932710	.5142642	.6681333	.2180050

#1	2.010746	1.990634	2.047488	1.966339	2.034791	2.170622	2.107987
#2	1.996997	1.997369	2.047130	1.944403	2.020046	2.150209	2.101498

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.043377	2.092576	1.915046	1.992031	18.88660	1.972152	2.036491
SDev	.007000	.006927	.004854	.010448	.04374	.007377	.009631
%RSD	.3425909	.3310396	.2534781	.5244705	.2315839	.3740394	.4729326

#1	2.048327	2.097474	1.918478	1.999418	18.91753	1.977368	2.043301
#2	2.038427	2.087678	1.911613	1.984643	18.85567	1.966936	2.029680

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.919870	1.995024	2.029841	2.055749	2.012725	2.060836	2.032800
SDev	.016316	.033497	.037972	.009389	.003600	.001983	.008530
%RSD	.8498433	1.679004	1.870677	.4567259	.1788711	.0962276	.4196357

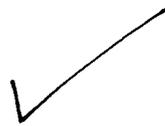
#1	1.908333	2.018710	2.056692	2.049110	2.010179	2.059433	2.038832
#2	1.931407	1.971339	2.002991	2.062388	2.015271	2.062238	2.026768

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avg	2.005883
SDev	.008406
%RSD	.4190642

#1	2.011827
#2	1.999939

Errors	QC Pass
Value	2.000000
Range	10.00000



Method: METALS Standard: BLANK

Run Time: 07/15/01 15:56:03

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Avg	.0101	.0079	.0031	-.0008	.0024	.0004	.0060
SDev	.0018	.0024	.0154	.0006	.0003	.0006	.0054
%RSD	18.20	30.43	497.3	70.71	11.79	141.4	89.57
#1	.0114	.0096	.0140	-.0004	.0026	.0008	.0098
#2	.0088	.0062	-.0078	-.0012	.0022	.0000	.0022
Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Avg	-.0001	.0025	.0011	.0028	.0118	.0030	.0024
SDev	.0027	.0027	.0004	.0020	.0028	.0014	.0000
%RSD	2687.	107.5	38.57	70.71	23.97	47.14	.0000
#1	.0018	.0044	.0014	.0014	.0138	.0040	.0024
#2	-.0020	.0006	.0008	.0042	.0098	.0020	.0024
Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Avg	.2642	-.0022	.0170	-.0101	.0071	.0102	.0007
SDev	.0062	.0048	.0447	.0041	.0129	.0082	.0050
%RSD	2.355	218.6	262.9	40.61	181.3	80.42	707.1
#1	.2686	-.0056	.0486	-.0072	.0162	.0044	.0042
#2	.2598	.0012	-.0146	-.0130	-.0020	.0160	-.0028
Elem	Zn2138						
Avg	.0031						
SDev	.0001						
%RSD	4.562						
#1	.0030						
#2	.0032						

Method: METALS Standard: STD1

Time: 07/15/01 16:01:46

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Cd2265	Co2286
Avge	.6779	2.061	.9457	.5040	3.812	1.679	.9875
SDev	.0041	.002	.0086	.0008	.011	.001	.0010
%RSD	.6050	.0755	.9122	.1684	.3005	.0758	.1002
#1	.6808	2.060	.9518	.5046	3.804	1.680	.9882
#2	.6750	2.062	.9396	.5034	3.820	1.678	.9868
Elem	Cr2677	Cu3247	Mn2576	Ni2316	Pb2203	Sb2068	Se1960
Avge	.7075	.3355	.4444	1.442	1.161	.7044	.6307
SDev	.0032	.0013	.0000	.007	.000	.0020	.0024
%RSD	.4597	.3794	.0000	.5198	.0366	.2811	.3812
#1	.7098	.3364	.4444	1.447	1.161	.7058	.6324
#2	.7052	.3346	.4444	1.437	1.160	.7030	.6290
Elem	Tl1908	V_2924	Zn2138				
Avge	.3613	1.657	1.315				
SDev	.0117	.005	.003				
%RSD	3.249	.2817	.2044				
#1	.3696	1.660	1.313				
#2	.3530	1.653	1.317				

Method: METALS Standard: STD2

F Time: 07/15/01 16:07:19

Elem	Ca3179	Fe2599	K_7664	Mg2790	Na5889
Avge	1.223	6.504	.1871	.9902	2.009
SDev	.001	.021	.0016	.0037	.014
%RSD	.1041	.3218	.8314	.3713	.7039
#1	1.223	6.519	.1882	.9928	2.019
#2	1.222	6.490	.1860	.9876	1.999

Method: METALS

Slope = Conc(SIR)/IR

Element	Wavelength	High std	Low std	Slope	Y-intercept	Date Standardized
Ag <sub>3280</sub>	328.000	STD1	BLANK	1.49620	-.015112	07/15/01 04:07:19
Al <sub>3082</sub>	308.200	STD1	BLANK	4.87674	-.038526	07/15/01 04:07:19
As <sub>1936</sub>	193.600	STD1	BLANK	1.10567	-.003428	07/15/01 04:07:19
Ba <sub>4934</sub>	493.400	STD1	BLANK	1.98098	.001585	07/15/01 04:07:19
Be <sub>3130</sub>	313.040	STD1	BLANK	.262959	-.000631	07/15/01 04:07:19
Ca <sub>3179</sub>	317.900	STD2	BLANK	8.18264	-.003273	07/15/01 04:07:19
Cd <sub>2265</sub>	226.500	STD1	BLANK	.597836	-.003587	07/15/01 04:07:19
Co <sub>2286</sub>	228.600	STD1	BLANK	1.01410	.000101	07/15/01 04:07:19
Cr <sub>2677</sub>	267.700	STD1	BLANK	1.42674	-.003567	07/15/01 04:07:19
Cu <sub>3247</sub>	324.700	STD1	BLANK	2.99043	-.003289	07/15/01 04:07:19
Fe <sub>2599</sub>	259.940	STD2	BLANK	1.53808	-.004307	07/15/01 04:07:19
K <sub>7664</sub>	766.400	STD2	BLANK	57.0451	-.673132	07/15/01 04:07:19
Mg <sub>2790</sub>	279.000	STD2	BLANK	10.1297	-.030389	07/15/01 04:07:19
Mn <sub>2576</sub>	257.600	STD1	BLANK	2.26244	-.005430	07/15/01 04:07:19
Na <sub>5889</sub>	588.900	STD2	BLANK	5.73066	-1.51404	07/15/01 04:07:19
Ni <sub>2316</sub>	231.600	STD1	BLANK	.693867	.001527	07/15/01 04:07:19
Pb <sub>2203</sub>	220.300	STD1	BLANK	.879924	-.014959	07/15/01 04:07:19
Sb <sub>2068</sub>	206.800	STD1	BLANK	1.39632	.014103	07/15/01 04:07:19
Se <sub>1960</sub>	196.000	STD1	BLANK	1.60359	-.011386	07/15/01 04:07:19
Tl <sub>1908</sub>	190.800	STD1	BLANK	2.85292	-.029100	07/15/01 04:07:19
V <sub>2924</sub>	292.400	STD1	BLANK	.601855	-.000421	07/15/01 04:07:19
Zn <sub>2138</sub>	213.800	STD1	BLANK	.766472	-.002376	07/15/01 04:07:19

Method: METALS Sample Name: icb

Operator: eaj

Run Time: 07/15/01 16:11:50

Content:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0017943	L.0200056	L.0066790	L.0007924	L.0000791	L.0032731	L-.001375
SDev	.0002092	.0027201	.0196738	.0005603	.0000325	.0046288	.001945
%RSD	11.66172	13.59654	294.5606	70.71068	41.03249	141.4214	141.4700

#1	L.0019422	L.0180822	L-.007232	L.0003962	L.0000562	L-.000000	L-.002750
#2	L.0016463	L.0219290	L.0205905	L.0011886	L.0001020	L.0065461	L.0000005

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0024328	L-.000855	L.0005981	L-.003070	L-.005705	L-.002018	L.0006788
SDev	.0021506	.001428	.0004229	.000432	.104876	.005736	.0003198
%RSD	88.39909	167.0269	70.71065	14.07196	1838.469	284.2701	47.11094

#1	L.0009121	L.0001548	L.0002990	L-.002764	L-.079863	L-.006073	L.0004527
#2	L.0039535	L-.001865	L.0008971	L-.003375	L.0684541	L.0020380	L.0009049

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0200000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0303726	L.0053483	L-.037061	L.0275792	L-.021506	-.018837	L-.000123
SDev	.0202610	.0012522	.014812	.0142057	.011110	.054890	.002804
%RSD	66.70825	23.41234	39.96799	51.50881	51.66025	291.4002	2273.650

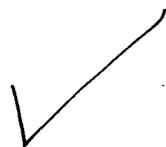
#1	L.0160459	L.0062337	L-.047535	L.0376242	L-.029361	.0199766	L-.002106
#2	L.0446993	L.0044628	L-.026587	L.0175343	L-.013650	-.057650	L.0018593

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	NOCHECK	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000		100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000		.0100000

Elem	Zn2138
Units	ppm
Avg	L-.000557
SDev	.001521
%RSD	273.2065

#1	L-.001632
#2	L.0005188

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: icv

Operator: eaj

Print Time: 07/15/01 16:17:33

Element:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9987320	1.001453	1.005114	1.007726	.9914575	1.022830	1.005483
SDev	.0042282	.024086	.013717	.001961	.0008858	.002314	.000592
%RSD	.4233582	2.405089	1.364703	.1945974	.0893432	.2262711	.0588431

#1	.9957421	1.018484	.9954148	1.009113	.9920838	1.024466	1.005901
#2	1.001722	.9844216	1.014813	1.006339	.9908311	1.021193	1.005065

Errors	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass
Value	1.000000	1.000000	1.000000		1.000000	1.000000	1.000000
Range	10.00000	10.00000	10.00000		10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9942132	1.044367	.9910287	.9766259	9.868796	.9559901	1.000650
SDev	.0037318	.001794	.0021146	.0010907	.064539	.0085861	.000320
%RSD	.3753487	.1717728	.2133734	.1116823	.6539734	.8981384	.0320024

#1	.9968520	1.045636	.9925239	.9773972	9.914433	.9499188	1.000877
#2	.9915745	1.043099	.9895334	.9758547	9.823160	.9620614	1.000424

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000000	1.000000	1.000000	1.000000	10.00000	1.000000	1.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9799427	.9689306	.9825101	.9986090	1.043091	.9857783	.9978659
SDev	.0064835	.0140259	.0127005	.0184175	.002489	.0246432	.0040066
%RSD	.6616195	1.447567	1.292653	1.844315	.2385716	2.499874	.4015174

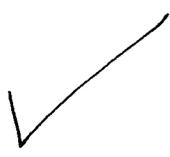
#1	.9845272	.9590128	.9914907	1.011632	1.041331	.9683530	1.000699
#2	.9753581	.9788485	.9735295	.9855858	1.044850	1.003204	.9950328

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avg	.9893488
SDev	.0011456
%RSD	.1157969

#1	.9885387
#2	.9901589

Errors	QC Pass
Value	1.000000
Range	10.00000



Method: METALS Sample Name: icsa  
Run Time: 07/15/01 16:23:15  
Concentration:  
Mode: CONC Corr. Factor: 1

Operator: eaj

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005332	489.5696	.0110172	.0005943	-.000000	477.9527	-.002015
SDev	.000819	3.1463	.0286078	.0014008	.000003	2.1454	.003656
%RSD	15.36270	.6426686	259.6645	235.7023	664.4351	.4488825	181.4102

#1	-.004752	487.3449	-.009212	.0015848	-.000002	476.4356	-.004601
#2	-.005911	491.7944	.0312460	-.000396	.0000014	479.4698	.0005699

Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value		500.0000				500.0000	
Range		20.00000				20.00000	

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006049	.0146898	.0131579	176.2378	.0285225	502.9893	-.014863
SDev	.0021524	.0012241	.0029604	1.0615	.2016848	2.8179	.000235
%RSD	355.8281	8.333229	22.49885	.6022998	707.1074	.5602214	1.583903

#1	.0021269	.0155554	.0152512	175.4873	.1711352	500.9967	-.015030
#2	-.000917	.0138242	.0110646	176.9884	-.114090	504.9818	-.014697

Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value				200.0000		500.0000	
Range				20.00000		20.00000	

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.046418	.0036781	.0338203	.0163484	.0696615	-.003250	.0002312
SDev	.013777	.0004824	.0244759	.0278422	.0752190	.010068	.0015363
%RSD	29.68113	13.11657	72.37040	170.3051	107.9778	309.7626	664.4198

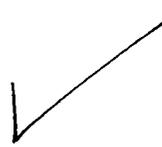
#1	-.036676	.0040193	.0165133	.0360358	.0164736	.0038689	.0013176
#2	-.056160	.0033370	.0511274	-.003339	.1228493	-.010369	-.000855

Errors	NOCHECK						
Value							
Range							

Elem	Zn2138
Units	ppm
Avg	.0032823
SDev	.0004616
%RSD	14.06358

#1	.0036087
#2	.0029559

Errors	NOCHECK
Value	
Range	



Method: METALS Sample Name: icsab  
Run Time: 07/15/01 16:28:57  
Concentration:  
Method: CONC Corr. Factor: 1

Operator: eaj

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9581358	485.8179	.9431557	.4817750	.4572749	481.6921	.9045034
SDev	.0087973	5.0698	.0077732	.0056030	.0050196	2.7565	.0001621
%RSD	.9181696	1.043563	.8241723	1.163000	1.097726	.5722452	.0179257

#1	.9643564	489.4028	.9486522	.4857369	.4608243	483.6413	.9046180
#2	.9519151	482.2330	.9376591	.4778130	.4537255	479.7430	.9043887

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000000	500.0000	1.000000	.5000000	.5000000	500.0000	1.000000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4417448	.4924498	.4889354	175.2402	.0114090	500.1119	.4408790
SDev	.0008608	.0008295	.0025375	1.2575	.1774826	3.8364	.0021246
%RSD	.1948605	.1684377	.5189747	.7175775	1555.639	.7671065	.4819013

#1	.4423535	.4930363	.4907297	176.1293	-.114090	502.8246	.4423813
#2	.4411362	.4918633	.4871412	174.3510	.1369081	497.3991	.4393766

Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.5000000	.5000000	.5000000	200.0000		500.0000	.5000000
Range	20.00000	20.00000	20.00000	20.00000		20.00000	20.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9690545	.8702496	.9395429	.9511086	1.007849	.8907393	.4577839
SDev	.0283653	.0084527	.0286658	.0299074	.015559	.0254275	.0004284
%RSD	2.927110	.9712934	3.051032	3.144483	1.543751	2.854655	.0935862

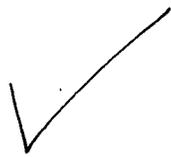
#1	.9489972	.8642726	.9192731	.9299608	1.018851	.9087193	.4580868
#2	.9891118	.8762265	.9598126	.9722563	.9968475	.8727593	.4574810

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	.5000000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	Zn2138
Units	ppm
Avg	.9352956
SDev	.0114282
%RSD	1.221877

#1	.9433765
#2	.9272147

Errors	QC Pass
Value	1.000000
Range	20.00000



Method: METALS Sample Name: ccb  
Time: 07/15/01 16:34:38  
Concentration:  
Mode: CONC Corr. Factor: 1

Operator: eaj

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0006001	L.0180675	L-.019950	L-.000198	L.0000027	L.0310940	L-.003349
SDev	.0002040	.0524076	.002219	.000280	.0000734	.0486024	.000674
%RSD	34.00156	290.0653	11.12052	141.4214	2756.279	156.3078	20.13084

#1	L.0007444	L-.018990	L-.018381	L.0000000	L-.000049	L-.003273	L-.003825
#2	L.0004558	L.0551253	L-.021519	L-.000396	L.0000545	L.0654611	L-.002872

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.000706	L-.003556	L-.002093	L.0058425	L-.068454	L.0253216	L-.000227
SDev	.000577	.000808	.000000	.0160932	.016135	.0329475	.000321
%RSD	81.71371	22.72637	.0000000	275.4495	23.57023	130.1162	141.3834

#1	L-.001113	L-.002984	L-.002093	L-.005537	L-.079863	L.0020242	L-.000000
#2	L-.000298	L-.004127	L-.002093	L.0172222	L-.057045	L.0486190	L-.000454

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.021776	L-.004552	L-.022975	L.0073932	L.0058062	L-.055054	L-.001577
SDev	.022692	.009216	.012294	.0000796	.0101135	.017356	.000593
%RSD	104.2062	202.4880	53.51143	1.077015	174.1829	31.52656	37.60219

#1	L-.037822	L.0019654	L-.031668	L.0074495	L.0129575	L-.042781	L-.001996
#2	L-.005730	L-.011069	L-.014282	L.0073369	L-.001345	L-.067326	L-.001158

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avg	L-.002280
SDev	.001595
%RSD	69.92463

#1	L-.001153
#2	L-.003408

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv  
Run Time: 07/15/01 16:40:20  
Concentration:  
Mode: CONC Corr. Factor: 1

Operator: eaj

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.992384	2.038434	2.013051	2.001981	1.998816	2.102938	2.022444
SDev	.024363	.028635	.006863	.034739	.025063	.043973	.018597
%RSD	1.222822	1.404750	.3409181	1.735229	1.253878	2.091051	.9195167

#1	1.975157	2.018186	2.017904	1.977417	1.981094	2.071844	2.009294
#2	2.009612	2.058682	2.008198	2.026545	2.016538	2.134031	2.035594

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.989627	2.096126	1.975179	1.958508	19.60639	1.969767	2.004014
SDev	.015024	.023476	.027066	.026305	.21782	.015965	.021117
%RSD	.7551123	1.119977	1.370320	1.343129	1.110966	.8105007	1.053719

#1	1.979003	2.079525	1.956041	1.939907	19.45237	1.958478	1.989082
#2	2.000251	2.112726	1.994318	1.977108	19.76041	1.981056	2.018946

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.972493	1.977993	2.037013	1.973518	2.075307	2.055429	2.000332
SDev	.003242	.015358	.006604	.013173	.000830	.051632	.023317
%RSD	.1643487	.7764379	.3241789	.6674795	.0400163	2.512002	1.165677

#1	1.974785	1.967134	2.041683	1.964204	2.074720	2.018919	1.983844
#2	1.970200	1.988853	2.032344	1.982833	2.075894	2.091939	2.016819

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avg	1.984849
SDev	.016478
%RSD	.8301884

#1	1.973197
#2	1.996501

Errors	QC Pass
Value	2.000000
Range	10.00000



Method: METALS Sample Name: 7-14 blk Operator: EAJ  
 Run Time: 07/15/01 16:46:03  
 Comment:  
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025514	.0175025	-.000199	.0009905	-.000006	.1464692	-.001974
SDev	.0016898	.0006424	.010610	.0002802	.000069	.0034716	.000930
%RSD	66.23093	3.670523	5335.666	28.28427	1259.113	2.370194	47.13016

#1	.0037463	.0170482	-.007701	.0007924	-.000055	.1489240	-.001316
#2	.0013565	.0179568	.0073037	.0011886	.0000435	.1440144	-.002631

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000987	.0038366	.0038876	.0058491	.0456360	.0212754	.0004519
SDev	.0005709	.0016296	.0016916	.0013051	.0484043	.0042986	.0000001
%RSD	578.5364	42.47547	43.51426	22.31305	106.0661	20.20460	.0285431

#1	-.000305	.0049888	.0050837	.0049262	.0798631	.0182359	.0004519
#2	.0005024	.0026843	.0026914	.0067719	.0114090	.0243150	.0004518

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.015473	.0081986	-.001606	.0328512	.0139846	-.022832	.0032633
SDev	.010536	.0109938	.001257	.0204076	.0126924	.008890	.0029734
D	68.09264	134.0928	78.26208	62.12117	90.75962	38.93619	91.11807

#1	-.022923	.0004249	-.000717	.0472815	.0229594	-.016546	.0011607
#2	-.008023	.0159724	-.002495	.0184209	.0050097	-.029119	.0053658

Elem	Zn2138
Units	ppm
Avge	.0160582
SDev	.0013727
%RSD	8.548554

#1	.0150875
#2	.0170289

Method: METALS Sample Name: 7-14 blkspk Operator: EAJ  
 F Time: 07/15/01 16:51:45  
 C ent:  
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.8251579	9.171741	.9336906	.9312599	.9178078	9.178463	.9139411
SDev	.0031890	.032348	.0101673	.0047626	.0052364	.019673	.0016022
%RSD	.3864663	.3526906	1.088941	.5114140	.5705298	.2143365	.1753035

#1	.8229030	9.148869	.9265011	.9278922	.9141051	9.164553	.9128082
#2	.8274128	9.194615	.9408799	.9346275	.9215105	9.192374	.9150740

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9096611	.9636682	.9168661	9.184282	9.218483	8.984974	.9191874
SDev	.0007171	.0050250	.0046520	.030259	.064539	.030111	.0025588
%RSD	.0788301	.5214450	.5073852	.3294696	.7001076	.3351268	.2783738

#1	.9091541	.9601150	.9135765	9.162886	9.264119	8.963682	.9173781
#2	.9101682	.9672214	.9201555	9.205679	9.172847	9.006266	.9209967

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.161604	.8963739	.9399105	.9221080	.9136397	.9211098	.9325873
SDev	.029986	.0122352	.0109439	.0229288	.0107131	.0653615	.0041880
D	.3273041	1.364960	1.164359	2.486560	1.172569	7.095955	.4490693

#1	9.140401	.9050255	.9321720	.9058949	.9212150	.9673274	.9296260
#2	9.182808	.8877224	.9476491	.9383211	.9060645	.8748922	.9355487

Elem	Zn2138
Units	ppm
Avge	.9179031
SDev	.0038273
%RSD	.4169626

#1	.9151968
#2	.9206094

Method: METALS      Sample Name: 7-14 lcs      Operator: EAJ  
 Run Time: 07/15/01 16:57:27  
 Element:  
 Mode: CONC      Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1297637	196.7579	.9117768	.4288827	.0873137	493.5234	3.979842
SDev	.0115585	.0965	.0129079	.0042023	.0005514	.1909	.030408
%RSD	8.907362	.0490461	1.415686	.9798235	.6315245	.0386876	.7640616

#1	.1379368	196.6897	.9209040	.4318542	.0869238	493.3884	3.958340
#2	.1215906	196.8261	.9026495	.4259113	.0877036	493.6585	4.001344

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4675992	1.895664	2.160586	401.0525	5.618938	32.14254	10.66985
SDev	.0000286	.009092	.004229	.2034	.040337	.04297	.00160
%RSD	.0061111	.4796343	.1957424	.0507179	.7178739	.1336760	.0150166

#1	.4676194	1.902093	2.163577	400.9086	5.590416	32.17292	10.66872
#2	.4675790	1.889235	2.157596	401.1963	5.647461	32.11216	10.67098

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.054441	1.549788	4.902738	.3718736	2.245909	2.019655	2.252058
SDev	.008104	.044225	.004479	.1308692	.013632	.139197	.003799
%RSD	.2653295	2.853646	.0913646	35.19186	.6069916	6.892117	.1686804

#1	3.048711	1.518515	4.905905	.2793351	2.236270	2.118082	2.249372
#2	3.060172	1.581060	4.899571	.4644122	2.255549	1.921228	2.254744

Elem	Zn2138
Units	ppm
Avge	21.82324
SDev	.00611
%RSD	.0280021

#1	21.82756
#2	21.81892

Method: METALS Sample Name: 7-13 blk Operator: EAJ  
 R Time: 07/15/01 17:37:17  
 C ent:  
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.001044	.0009676	-.005868	.0001981	.0000248	.0818264	-.001256
SDev	.006771	.0144838	.008176	.0014008	.0000369	.0000000	.000254
%RSD	648.5337	1496.897	139.3331	707.1068	148.9991	.0000000	20.20521

#1	-.005832	.0112092	-.011649	-.000792	.0000509	.0818264	-.001076
#2	.0037440	-.009274	-.000087	.0011886	-.000001	.0818264	-.001435

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019288	-.002572	.0026914	.0023137	.0342270	.0091241	.0006785
SDev	.0008671	.005449	.0067666	.0006618	.0484043	.0214933	.0009592
%RSD	44.95688	211.8757	251.4158	28.60361	141.4214	235.5655	141.3834

#1	.0025420	-.006425	-.002093	.0018457	.0684541	-.006074	.0000002
#2	.0013157	.0012813	.0074761	.0027816	-.000000	.0243222	.0013567

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0401147	-.002421	-.029471	.0153721	.0080312	-.021691	.0008939
SDev	.0064836	.015586	.001607	.0040581	.0083947	.036324	.0001514
D	16.16266	643.8080	5.453428	26.39925	104.5269	167.4627	16.94074

#1	.0355301	-.013442	-.030608	.0182416	.0020952	-.047376	.0010010
#2	.0446993	.0086000	-.028335	.0125026	.0139671	.0039941	.0007868

Elem	Zn2138
Units	ppm
Avge	.0148727
SDev	.0004724
%RSD	3.176131

#1	.0145387
#2	.0152067

Method: METALS Sample Name: ccb  
 Run Time: 07/15/01 17:42:58  
 Count:  
 M. CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0026993	L.0429259	L-.003907	L.0013867	L.0000010	L.0507323	L-.003350
SDev	.0002128	.0075954	.008891	.0002802	.0000013	.0023144	.002367
%RSD	7.884392	17.69412	227.5933	20.20305	128.1370	4.561980	70.66477

#1	L.0028498	L.0375552	L-.010194	L.0011886	L.0000001	L.0523689	L-.001676
#2	L.0025488	L.0482966	L.0023804	L.0015848	L.0000019	L.0490958	L-.005024

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0002016	L.0024331	L.0047847	L.0139965	L-.011409	L.0607783	L-.000002
SDev	.0010053	.0016189	.0012687	.0010876	.129078	.0143270	.000000
%RSD	498.5886	66.53614	26.51650	7.770404	1131.367	23.57256	23.56987

#1	L.0009125	L.0012884	L.0056818	L.0147656	L.0798631	L.0709090	L-.000002
#2	L-.000509	L.0035778	L.0038876	L.0132275	L-.102681	L.0506475	L-.000002

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0028655	L.0064490	L-.013413	L.0010142	L-.011306	L.0074187	L-.000593
SDev	.0153983	.0073666	.012461	.0054786	.001820	.0112889	.000760
%RSD	537.3700	114.2281	92.89719	540.1660	16.10208	152.1688	128.1381

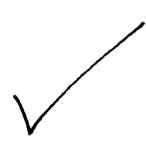
#1	L.0137538	L.0012400	L-.004602	L.0048882	L-.010018	L.0154011	L-.000056
#2	L-.008023	L.0116580	L-.022224	L-.002860	L-.012593	L-.000564	L-.001131

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avg	L-.000648
SDev	.002516
%RSD	388.1167

#1	L.0011310
#2	L-.002428

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv  
R Time: 07/15/01 17:48:40  
Content:  
Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.976811	1.994171	2.017694	1.984746	1.982947	2.078390	2.023223
SDev	.012914	.004910	.007527	.013728	.012301	.009257	.009553
%RSD	.6532723	.2462145	.3730708	.6916534	.6203256	.4454156	.4721594

#1	1.985943	1.990699	2.012371	1.994453	1.991645	2.084936	2.029978
#2	1.967680	1.997643	2.023017	1.975040	1.974249	2.071844	2.016468

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.985074	2.087321	1.960825	1.944369	19.33828	1.955453	1.989308
SDev	.000274	.000171	.010996	.006801	.19362	.007100	.006079
%RSD	.0137965	.0081979	.5607642	.3498044	1.001216	.3631032	.3055967

#1	1.985268	2.087442	1.968600	1.949179	19.47518	1.950432	1.993607
#2	1.984881	2.087200	1.953050	1.939560	19.20137	1.960473	1.985010

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.963897	1.970173	2.074266	1.995725	2.063200	2.027417	1.992357
SDev	.017019	.006297	.022893	.041407	.038138	.034673	.005022
%RSD	.8666096	.3196033	1.103675	2.074798	1.848497	1.710224	.2520827

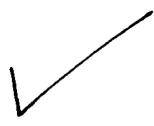
#1	1.951862	1.974626	2.090454	1.966446	2.090167	2.002899	1.995908
#2	1.975931	1.965721	2.058078	2.025004	2.036232	2.051935	1.988805

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avge	1.979539
SDev	.006136
%RSD	.3099621

#1	1.983878
#2	1.975200

Errors	QC Pass
Value	2.000000
Range	10.00000



Method: METALS Sample Name: 7-13 blkspk Operator: EAJ  
 R Time: 07/15/01 17:54:22  
 C ent:  
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9911465	9.914604	.0253447	.9900951	.0196150	10.44268	.0162196
SDev	.0010645	.063390	.0089931	.0050427	.0000689	.02546	.0000013
%RSD	.1073969	.6393620	35.48301	.5093191	.3514941	.2437884	.0079092
#1	.9918991	9.959428	.0189857	.9936609	.0196638	10.46068	.0162187
#2	.9903938	9.869780	.0317038	.9865293	.0195663	10.42468	.0162205

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9764544	1.029995	.9781698	2.004738	9.828865	9.726489	.9906583
SDev	.0018596	.005061	.0008458	.009167	.040338	.000019	.0031995
%RSD	.1904402	.4913282	.0864636	.4572511	.4103991	.0001941	.3229707
#1	.9751394	1.026417	.9787679	2.011220	9.857387	9.726502	.9929208
#2	.9777693	1.033574	.9775718	1.998256	9.800342	9.726476	.9883959

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.804010	.9667933	-.014851	.0380179	-.003166	.0180890	.9979969
SDev	.040522	.0173762	.024792	.0202630	.000052	.0214049	.0032170
D	.4133241	1.797300	166.9387	53.29870	1.650522	118.3311	.3223441
#1	9.832664	.9545065	-.032381	.0236897	-.003129	.0332246	1.000272
#2	9.775357	.9790801	.0026796	.0523460	-.003203	.0029534	.9957222

Elem	Zn2138
Units	ppm
Avg	1.071482
SDev	.007648
%RSD	.7138138

#1	1.076890
#2	1.066074

Method: METALS Sample Name: 7-13 lcs Operator: EAJ  
 R Time: 07/15/01 18:00:04  
 C ent:  
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2124936	1.000581	1.016143	.9750396	.9563681	2.431061	.9920939
SDev	.0010461	.000857	.000087	.0123267	.0077530	.012729	.0058329
%RSD	.4922950	.0856601	.0085941	1.264229	.8106753	.5235994	.5879354

#1	.2117539	.9999750	1.016082	.9837559	.9618503	2.440062	.9962183
#2	.2132333	1.001187	1.016205	.9663233	.9508858	2.422061	.9879694

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9806467	1.035148	.9683014	.9592165	9.703365	.9638858	.9816455
SDev	.0060126	.005989	.0071895	.0059377	.137145	.0085280	.0067194
%RSD	.6131245	.5785876	.7424808	.6190102	1.413377	.8847559	.6845025

#1	.9848982	1.039383	.9733851	.9634150	9.800342	.9578555	.9863968
#2	.9763951	1.030913	.9632177	.9550179	9.606389	.9699160	.9768942

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.040688	.9695540	.9960324	.9773045	.9515868	1.030536	.9886258
SDev	.001621	.0039474	.0298739	.0021783	.0084247	.064579	.0114261
D	.1557512	.4071346	2.999290	.2228861	.8853352	6.266517	1.155760

#1	1.039542	.9723452	1.017156	.9757642	.9575440	.9848725	.9967052
#2	1.041834	.9667628	.9749083	.9788447	.9456297	1.076201	.9805462

Elem	Zn2138
Units	ppm
Avge	1.135785
SDev	.008753
%RSD	.7706318

#1	1.141974
#2	1.129596

Method: METALS Sample Name: ccb

Operator: EAJ

Print Time: 07/15/01 18:51:21

Content:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.002388	L.0458657	L-.010650	L-.000990	L.0000024	L.0490958	L-.001198
SDev	.001058	.0034456	.002514	.000840	.0000003	.0000000	.000338
%RSD	44.30009	7.512359	23.60225	84.85281	11.94434	.0000000	28.24357

#1	L-.003137	L.0434292	L-.008873	L-.001585	L.0000026	L.0490958	L-.001437
#2	L-.001640	L.0483020	L-.012428	L-.000396	L.0000022	L.0490958	L-.000959

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0003073	L-.003414	L-.002093	L.0146096	L.0570450	L.0405176	L-.000227
SDev	.0000043	.001010	.003383	.0006495	.0645391	.0200578	.000319
%RSD	1.409078	29.57379	161.6244	4.445480	113.1372	49.50403	140.4009

#1	L.0003104	L-.002700	L-.004486	L.0150688	L.1026811	L.0263346	L-.000453
#2	L.0003042	L-.004127	L.0002990	L.0141504	L.0114090	L.0547006	L-.000002

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.026361	L-.003729	L-.014899	L.0241594	L-.039044	L-.037371	L-.001396
SDev	.001621	.012533	.008853	.0143529	.031980	.056890	.000167
%RSD	6.148426	336.0739	59.42267	59.40942	81.90678	152.2288	11.94438

#1	L-.027507	L-.012591	L-.008639	L.0140103	L-.016431	L-.077599	L-.001514
#2	L-.025215	L.0051328	L-.021159	L.0343084	L-.061658	L.0028559	L-.001278

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avg	L-.001364
SDev	.000273
%RSD	20.00412

#1	L-.001557
#2	L-.001171

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv

Operator: EAJ

Time: 07/15/01 18:57:02

Content:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.001818	2.024059	2.021315	2.024961	1.996429	2.060388	2.010547
SDev	.014403	.005991	.001900	.021292	.014294	.002314	.002620
%RSD	.7194923	.2960105	.0940223	1.051465	.7159583	.1123268	.1303052
#1	2.012002	2.028295	2.022659	2.040016	2.006536	2.062024	2.012400
#2	1.991634	2.019822	2.019971	2.009905	1.986322	2.058751	2.008695
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000
Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.981013	2.085506	1.987141	1.955204	19.88021	1.932219	1.996323
SDev	.004864	.008196	.016070	.007712	.08874	.005630	.010239
%RSD	.2455097	.3930083	.8087208	.3944146	.4463822	.2913649	.5128881
#1	1.984452	2.091302	1.998505	1.960656	19.94296	1.928238	2.003563
#2	1.977574	2.079711	1.975778	1.949750	19.81745	1.936200	1.989083
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000
Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.953008	1.963370	2.044855	1.967737	2.030388	2.047102	2.012452
SDev	.008105	.003162	.018917	.015754	.057420	.060926	.014072
%RSD	.4149796	.1610724	.9250951	.8006274	2.828020	2.976190	.6992626
#1	1.958739	1.965606	2.058231	1.978877	2.070990	2.004021	2.022403
#2	1.947278	1.961134	2.031479	1.956597	1.989786	2.090182	2.002502
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000
Elem	Zn2138						
Units	ppm						
Avge	1.991856						
SDev	.007330						
%RSD	.3679864						
#1	1.997039						
#2	1.986673						
Errors	QC Pass						
value	2.000000						
Range	10.00000						



Method: METALS Sample Name: icsa  
 Run Time: 07/15/01 19:02:45  
 Comment:  
 Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	- .009924	485.1806	.0218968	.0011886	- .000027	473.5603	- .000366
SDev	.003540	1.2317	.0085054	.0005603	.000035	.7568	.000979
%RSD	35.66762	.2538725	38.84306	47.14045	129.9282	.1598160	267.6204

#1	- .007421	486.0515	.0158826	.0007924	- .000002	474.0954	- .001058
#2	- .012426	484.3096	.0279111	.0015848	- .000052	473.0251	.0003264

Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value		500.0000				500.0000	
Range		20.00000				20.00000	

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	- .000713	.0134368	.0125598	173.8503	- .057045	497.2529	- .014239
SDev	.001147	.0005443	.0029604	.3500	.096809	1.2176	.000283
%RSD	160.8457	4.051154	23.57022	.2013185	169.7055	.2448752	1.990523

#1	.0000980	.0130519	.0104665	174.0978	- .125499	498.1139	- .014038
#2	- .001524	.0138217	.0146531	173.6028	.0114090	496.3918	- .014439

Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value				200.0000		500.0000	
Range				20.00000		20.00000	

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	- .047564	.0000827	.0187809	.0038949	- .006167	- .025153	.0005278
SDev	.023503	.0034453	.0040852	.0031149	.023631	.025753	.0011046
%RSD	49.41244	4164.339	21.75208	79.97478	383.1977	102.3851	209.2764

#1	- .064183	.0025189	.0216696	.0016923	- .022877	- .043363	.0013089
#2	- .030945	- .002353	.0158922	.0060975	.0105430	- .006943	- .000253

Errors	NOCHECK						
Value							
Range							

Elem	Zn2138
Units	ppm
Avg	.0028990
SDev	.0007193
%RSD	24.80986

#1	.0023905
#2	.0034076

Errors	NOCHECK
Value	
Range	



Method: METALS Sample Name: icsab  
Time: 07/15/01 19:08:27  
ent:  
Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9575580	489.0842	1.002203	.4839540	.4557702	479.9427	.8968296
SDev	.0120683	8.7347	.057841	.0103657	.0075767	6.4271	.0098908
%RSD	1.260319	1.785919	5.771369	2.141869	1.662403	1.339135	1.102869

#1	.9660916	495.2606	1.043102	.4912837	.4611278	484.4873	.9038235
#2	.9490245	482.9079	.9613030	.4766244	.4504127	475.3981	.8898357

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000000	500.0000	1.000000	.5000000	.5000000	500.0000	1.000000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4386018	.4825592	.4898325	174.9659	.0342270	500.0835	.4386174
SDev	.0047238	.0008310	.0046520	2.4237	.1290783	6.4408	.0058860
%RSD	1.077017	.1722175	.9497125	1.385216	377.1238	1.287946	1.341939

#1	.4419421	.4819716	.4931220	176.6797	-.057045	504.6378	.4427794
#2	.4352616	.4831469	.4865431	173.2521	.1254991	495.5291	.4344554

Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.5000000	.5000000	.5000000	200.0000		500.0000	.5000000
Range	20.00000	20.00000	20.00000	20.00000		20.00000	20.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9381089	.8865945	.9749033	1.002894	.9960228	.9626205	.4612405
SDev	.0137775	.0023837	.0336792	.070698	.0068223	.0439745	.0056999
%RSD	1.468643	.2688649	3.454620	7.049377	.6849552	4.568212	1.235766

#1	.9283668	.8849090	.9510886	1.052885	.9911987	.9937152	.4652709
#2	.9478511	.8882801	.9987181	.9529034	1.000847	.9315258	.4572101

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	.5000000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	Zn2138
Units	ppm
Avg	.9392225
SDev	.0080178
%RSD	.8536597

#1	.9448919
#2	.9335530

Errors	QC Pass
Value	1.000000
Range	20.00000



Method: METALS Sample Name: ccb

Operator: EAJ

Time: 07/15/01 19:14:08

Content:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.003134	L.0502489	L-.007679	L-.000396	L-.000024	L.0638246	L-.003291
SDev	.000844	.0179515	.009480	.000000	.000113	.0162008	.000762
%RSD	26.91744	35.72524	123.4629	.0000000	473.4490	25.38332	23.15669

#1	L-.002538	L.0375552	L-.014382	L-.000396	L-.000104	L.0523689	L-.002752
#2	L-.003731	L.0629426	L-.000975	L-.000396	L.0000562	L.0752803	L-.003830

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.001312	L-.005837	L-.003289	L.0195315	L-.085568	L.0567226	L-.000228
SDev	.000865	.002429	.000000	.0080512	.008067	.0315197	.000319
%RSD	65.89169	41.60746	.0000000	41.22191	9.428077	55.56820	139.9506

#1	L-.001924	L-.007554	L-.003289	L.0138384	L-.091272	L.0344348	L-.000454
#2	L-.000701	L-.004120	L-.003289	L.0252246	L-.079863	L.0790104	L-.000002

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.018911	L-.007680	L.0131692	L.0005439	L-.047355	L-.039930	L-.001404
SDev	.007294	.013636	.0039765	.0035159	.007438	.010489	.001013
%RSD	38.56959	177.5412	30.19511	646.3590	15.70672	26.26721	72.13086

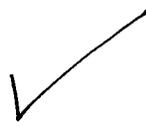
#1	L-.024069	L.0019616	L.0159810	L.0030300	L-.042096	L-.032514	L-.000688
#2	L-.013754	L-.017323	L.0103575	L-.001942	L-.052614	L-.047347	L-.002121

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avg	L-.001502
SDev	.002229
%RSD	148.3924

#1	L.0000740
#2	L-.003078

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv

Operator: EAJ

Run Time: 07/15/01 19:19:50

Concentration:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.993874	2.007139	2.031747	2.013273	1.986692	2.075117	2.002897
SDev	.002755	.012453	.018440	.000840	.006689	.004629	.002959
%RSD	.1381675	.6204417	.9076058	.0417434	.3366713	.2230591	.1477131

#1	1.995823	1.998334	2.018708	2.013867	1.991421	2.071844	2.004989
#2	1.991927	2.015945	2.044787	2.012678	1.981962	2.078390	2.000805

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.973013	2.073724	1.977871	1.941625	19.65202	1.930134	1.991798
SDev	.003011	.009265	.007189	.004157	.02420	.025819	.002559
%RSD	.1526334	.4467754	.3634966	.2141222	.1231479	1.337683	.1284678

#1	1.975143	2.080275	1.982954	1.944565	19.63491	1.948391	1.993607
#2	1.970884	2.067173	1.972787	1.938685	19.66914	1.911877	1.989988

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.939828	1.961688	1.976747	1.980111	2.058053	1.964415	2.001698
SDev	.000811	.012261	.029835	.012028	.008188	.019778	.003011
%RSD	.0417856	.6250156	1.509307	.6074638	.3978495	1.006818	.1504292

#1	1.939255	1.953018	1.955650	1.988616	2.063842	1.950430	2.003828
#2	1.940401	1.970358	1.997843	1.971605	2.052263	1.978401	1.999569

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avg	1.979079
SDev	.001597
%RSD	.0806870

#1	1.977950
#2	1.980208

Errors	QC Pass
Value	2.000000
Range	10.00000



Method: METALS Sample Name: 7-13 3050 blk Operator: EAJ  
 Run Time: 07/15/01 19:36:55  
 Comment:  
 Method: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010467	.0117301	-.010976	.0001981	-.000024	.0302758	-.002870
SDev	.0008459	.0131170	.004649	.0008405	.000036	.0011572	.001691
%RSD	80.81677	111.8229	42.35880	424.2640	151.6399	3.822191	58.92946

#1	.0004485	.0024550	-.014263	-.000396	.0000017	.0310940	-.004065
#2	.0016448	.0210052	-.007688	.0007924	-.000050	.0294575	-.001674

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008123	.0000090	.0011962	-.000609	.0171135	.0141872	.0006783
SDev	.0012867	.0010111	.0012687	.000432	.0242022	.0114644	.0003196
%RSD	158.4113	11218.31	106.0660	70.96381	141.4214	80.80785	47.11934

#1	-.000098	-.000706	.0002990	-.000303	-.000000	.0060807	.0004523
#2	.0017221	.0007239	.0020933	-.000914	.0342270	.0222938	.0009043

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003438	.0019700	-.027991	.0142649	-.027585	-.058194	-.001384
SDev	.017830	.0076492	.006238	.0089551	.008842	.005646	.000507
%RSD	518.5656	388.2886	22.28678	62.77696	32.05356	9.701810	36.64144

#1	-.016046	-.003439	-.023580	.0079327	-.033838	-.062186	-.001026
#2	.0091692	.0073788	-.032402	.0205970	-.021333	-.054202	-.001743

Elem	Zn2138
Units	ppm
Avg	.0145530
SDev	.0024627
%RSD	16.92265

#1	.0128115
#2	.0162944

Method: METALS Sample Name: 7-13 blkspk

Operator: EAJ

Print Time: 07/15/01 19:42:37

Concentration:

Method: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7779953	9.503496	.9524208	.9514659	.9310174	9.780705	.9359694
SDev	.0010673	.005513	.0071635	.0019611	.0021183	.021987	.0013559
%RSD	.1371894	.0580153	.7521349	.2061128	.2275253	.2248015	.1448620

#1	.7772406	9.499598	.9473555	.9500792	.9295195	9.765158	.9369281
#2	.7787501	9.507395	.9574862	.9528526	.9325153	9.796252	.9350107

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9305210	.9853792	.9392943	9.411198	9.498003	9.249552	.9402202
SDev	.0027249	.0012114	.0000000	.021991	.056472	.034403	.0022386
%RSD	.2928336	.1229359	.0000000	.2336707	.5945677	.3719455	.2380963

#1	.9285942	.9862358	.9392943	9.395648	9.537935	9.225225	.9386373
#2	.9324478	.9845226	.9392943	9.426748	9.458072	9.273879	.9418032

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.413753	.9113939	.9585262	.9347957	.9741057	.9316144	.9583614
SDev	.007294	.0009880	.0057237	.0291915	.0207625	.0221917	.0008469
%RSD	.0774799	.1084061	.5971366	3.122772	2.131443	2.382070	.0883739

#1	9.418910	.9106952	.9625735	.9554373	.9594244	.9473063	.9577625
#2	9.408595	.9120925	.9544789	.9141542	.9887870	.9159225	.9589602

Elem	Zn2138
Units	ppm
Avg	.9643953
SDev	.0005367
%RSD	.0556556

#1	.9640157
#2	.9647748

Method: METALS Sample Name: 7-13 lcs

Operator: EAJ

Time: 07/15/01 19:48:19

Element:

Mode: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.218389	232.9424	1.775045	19.74049	2.129141	448.6948	5.860752
SDev	.005673	1.9102	.056305	.23533	.012254	1.4812	.008280
%RSD	.1762620	.8200311	3.172051	1.192121	.5755424	.3301216	.1412788

#1	3.214378	234.2931	1.814859	19.90689	2.137806	449.7423	5.854897
#2	3.222401	231.5917	1.735231	19.57409	2.120477	447.6475	5.866607

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.373238	1.968473	2.523923	406.6167	115.7444	101.6032	24.91098
SDev	.002203	.004185	.023260	1.7715	.9681	.3588	.09598
%RSD	.0653211	.2125763	.9215945	.4356683	.8363991	.3531410	.3852764

#1	3.371679	1.971432	2.540371	407.8693	116.4290	101.8569	24.97884
#2	3.374796	1.965514	2.507476	405.3640	115.0599	101.3495	24.84311

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	29.35530	4.109369	7.121990	2.148592	4.390358	2.371596	5.005192
SDev	.31202	.107381	.031120	.052458	.255023	.134490	.010654
%RSD	1.062895	2.613079	.4369501	2.441505	5.808702	5.670868	.2128667

#1	29.57593	4.033440	7.099986	2.111499	4.570686	2.276497	5.012726
#2	29.13467	4.185299	7.143995	2.185686	4.210030	2.466695	4.997658

Elem	Zn2138
Units	ppm
Avge	10.65462
SDev	.02796
%RSD	.2624455

#1	10.67440
#2	10.63485

Method: METALS Sample Name: ccb1

Operator: EAJ

Time: 07/15/01 20:22:30

Content:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.002995	L.0097825	L-.001561	L-.000594	L-.000049	L-.000000	L-.002809
SDev	.002330	.0076149	.003904	.000280	.000071	.004629	.000254
%RSD	77.77947	77.84185	250.0661	47.14045	143.4782	3976e6	9.032936

#1	L-.001348	L.0043980	L-.004322	L-.000396	L.0000007	L.0032731	L-.002989
#2	L-.004643	L.0151671	L.0011994	L-.000792	L-.000100	L-.003273	L-.002630

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.000607	L-.005696	L-.001794	L-.003689	L-.085568	L-.012155	L.0002266
SDev	.001573	.006244	.003806	.000879	.169415	.014334	.0009594
%RSD	259.2239	109.6219	212.1320	23.83453	197.9898	117.9291	423.3926

#1	L.0005056	L-.001281	L.0008971	L-.003067	L.0342270	L-.002019	L.0009050
#2	L-.001720	L-.010112	L-.004486	L-.004311	L-.205362	L-.022291	L-.000452

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.017192	L.0052318	L-.017613	L.0168698	L-.029367	L-.055050	L-.001885
SDev	.012967	.0087272	.020406	.0179910	.011344	.007657	.002064
%RSD	75.42535	166.8113	115.8571	106.6460	38.62911	13.90918	109.4889

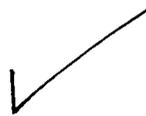
#1	L-.008023	L.0114029	L-.003184	L.0295913	L-.021345	L-.049635	L-.000426
#2	L-.026361	L-.000939	L-.032043	L.0041483	L-.037388	L-.060464	L-.003345

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avg	L-.000321
SDev	.002237
%RSD	696.2284

#1	L.0012606
#2	L-.001903

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv1  
Run Time: 07/15/01 20:28:12  
Comment:  
Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.985929	1.986802	1.998534	1.990887	1.971538	2.060388	1.999252
SDev	.019488	.000239	.004515	.023533	.019420	.006943	.011834
%RSD	.9812883	.0120110	.2259126	1.182025	.9850180	.3369886	.5919294

#1	1.972149	1.986970	2.001726	1.974247	1.957806	2.055478	1.990884
#2	1.999709	1.986633	1.995341	2.007528	1.985270	2.065297	2.007620

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.961273	2.050387	1.950060	1.925804	19.72618	1.919868	1.977997
SDev	.013601	.007167	.018608	.016881	.08067	.020202	.013758
%RSD	.6934932	.3495350	.9542273	.8765863	.4089681	1.052237	.6955306

#1	1.951655	2.045319	1.936902	1.913867	19.66914	1.905584	1.968269
#2	1.970891	2.055455	1.963218	1.937740	19.78323	1.934153	1.987725

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.942120	1.939847	1.983451	1.961544	2.070791	1.967842	1.990363
SDev	.000811	.017019	.002994	.022965	.017139	.069764	.017388
%RSD	.0417363	.8773578	.1509632	1.170781	.8276676	3.545203	.8736230

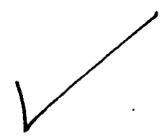
#1	1.941547	1.927813	1.981334	1.977783	2.082911	1.918511	1.978068
#2	1.942694	1.951882	1.985568	1.945305	2.058672	2.017172	2.002659

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avg	1.965567
SDev	.016921
%RSD	.8608816

#1	1.953602
#2	1.977532

Errors	QC Pass
Value	2.000000
Range	10.00000



Method: METALS Sample Name: 7-5 3050 blk Operator: EAJ  
 Run Time: 07/15/01 20:39:37  
 Element:  
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0049451	.0068474	-.004003	.0011886	-.000025	.1988381	-.003409
SDev	.0029644	.0158973	.008249	.0000000	.000040	.0057860	.001607
%RSD	59.94507	232.1664	206.0975	.0000000	160.4201	2.909902	47.12318

#1	.0070413	-.004394	-.009836	.0011886	-.000053	.2029294	-.004545
#2	.0028490	.0180885	.0018306	.0011886	.0000034	.1947467	-.002273

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0019252	.0018625	.0059809	.0116960	.0627495	.0344482	.0006777
SDev	.0017222	.0036235	.0004229	.0013082	.0080674	.0028646	.0003199
%RSD	89.45300	194.5476	7.071062	11.18494	12.85653	8.315695	47.19967

#1	.0007075	.0044248	.0056818	.0126210	.0684541	.0364738	.0009039
#2	.0031430	-.000700	.0062799	.0107709	.0570450	.0324226	.0004515

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0200574	.0083385	-.011274	.0196170	-.022384	-.030814	-.000776
SDev	.0024314	.0041338	.035095	.0159881	.036504	.020168	.001715
%RSD	12.12196	49.57517	311.2847	81.50153	163.0856	65.45079	220.9830

#1	.0183382	.0112616	.0135416	.0309222	-.048196	-.045075	.0004366
#2	.0217767	.0054154	-.036090	.0083117	.0034289	-.016553	-.001989

Elem	Zn2138
Units	ppm
Avge	.0320723
SDev	.0010981
%RSD	3.423845

#1	.0312959
#2	.0328488

Method: METALS Sample Name: 7-5 blk 2

Operator: EAJ

Run Time: 07/15/01 20:45:18

Concentration:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003569	.0848721	-.013998	.0001981	-.000025	.4230423	-.003473
SDev	.004023	.0089295	.010734	.0014008	.000033	.0011572	.000338
%RSD	112.7320	10.52111	76.67767	707.1068	133.8399	.2735386	9.733225

#1	-.000724	.0911861	-.006409	.0011886	-.000001	.4222240	-.003234
#2	-.006413	.0785580	-.021588	-.000792	-.000048	.4238606	-.003712

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004087	-.004697	-.002392	.0418424	.0228180	.0101347	.0006784
SDev	.0010024	.008058	.005498	.0008731	.2258869	.0229245	.0003193
%RSD	245.2499	171.5662	229.8097	2.086749	989.9516	226.1968	47.06022

#1	.0011176	.0010012	.0014952	.0424598	.1825442	.0263448	.0009042
#2	-.000300	-.010395	-.006280	.0412250	-.136908	-.006075	.0004527

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.025215	-.000186	-.027426	.0239300	-.013713	-.046782	-.000919
SDev	.035659	.003449	.015555	.0184404	.042186	.026617	.002411
%RSD	141.4220	1854.752	56.71604	77.05956	307.6441	56.89585	262.3574

#1	.0000001	-.002625	-.016427	.0369694	.0161176	-.027961	.0007859
#2	-.050430	.0022528	-.038425	.0108907	-.043543	-.065603	-.002624

Elem	Zn2138
Units	ppm
Avg	.0469128
SDev	.0014099
%RSD	3.005390

#1	.0479098
#2	.0459158

Method: METALS Sample Name: 7-5 blkspk

Operator: EAJ

Print Time: 07/15/01 20:51:00

Element:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9081846	9.250770	.9120125	.9259112	.9118162	9.499222	.9086266
SDev	.0063710	.062667	.0128652	.0067237	.0047869	.049760	.0098009
%RSD	.7015096	.6774280	1.410643	.7261697	.5249820	.5238280	1.078656

#1	.9036796	9.206457	.9029154	.9211569	.9084313	9.464037	.9016963
#2	.9126896	9.295082	.9211096	.9306656	.9152010	9.534408	.9155569

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9061201	.9496950	.9102871	9.139620	9.361095	8.944399	.9130800
SDev	.0025700	.0001705	.0063437	.045936	.072607	.053044	.0041579
%RSD	.2836302	.0179515	.6968890	.5026032	.7756202	.5930453	.4553676

#1	.9043028	.9495745	.9058014	9.107138	9.412436	8.906891	.9101400
#2	.9079374	.9498156	.9147728	9.172101	9.309754	8.981907	.9160201

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.173065	.8963938	.8859066	.9229514	.9348733	.8914222	.9303123
SDev	.041332	.0093300	.0018151	.0101684	.0555967	.0242135	.0061289
%RSD	.4505826	1.040842	.2048857	1.101730	5.946973	2.716277	.6587969

#1	9.143839	.8897964	.8846232	.9301416	.8955605	.9085437	.9259785
#2	9.202291	.9029911	.8871901	.9157612	.9741861	.8743006	.9346460

Elem	Zn2138
Units	ppm
Avge	.9363128
SDev	.0076481
%RSD	.8168355

#1	.9309047
#2	.9417208

Method: METALS Sample Name: 7-5 blkspk 2 Operator: EAJ  
 Run Time: 07/15/01 20:56:42  
 Comment:  
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9023771	9.336921	.9235722	.9354199	.9211873	9.369937	.9124444
SDev	.0014897	.019307	.0013275	.0011206	.0011886	.026615	.0013500
%RSD	.1650840	.2067773	.1437307	.1198010	.1290273	.2840492	.1479548

#1	.9013238	9.323269	.9245108	.9346275	.9203469	9.351117	.9114898
#2	.9034305	9.350573	.9226335	.9362124	.9220278	9.388757	.9133990

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9047968	.9525020	.9198564	9.199186	9.355391	9.005221	.9176031
SDev	.0024352	.0002042	.0021145	.019604	.145213	.027244	.0028788
%RSD	.2691483	.0214384	.2298736	.2131060	1.552186	.3025325	.3137348

#1	.9030749	.9526464	.9213516	9.185324	9.252709	8.985957	.9155675
#2	.9065188	.9523576	.9183613	9.213048	9.458072	9.024486	.9196387

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.273352	.8913748	.9086378	.9336166	.9640775	.9427789	.9400719
SDev	.024314	.0050111	.0166900	.0022332	.0216594	.0209751	.0008505
%RSD	.2621886	.5621709	1.836818	.2391936	2.246644	2.224820	.0904698

#1	9.256160	.8878315	.9204394	.9320375	.9793930	.9576106	.9394706
#2	9.290544	.8949182	.8968362	.9351957	.9487619	.9279473	.9406733

Elem	Zn2138
Units	ppm
Avg	.9320175
SDev	.0046456
%RSD	.4984495

#1	.9287325
#2	.9353024

Method: METALS Sample Name: 7-5 lcs

Operator: EAJ

Run Time: 07/15/01 21:02:24

Content:

Method: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.434261	268.4044	1.734497	18.93918	2.083367	443.7566	5.954420
SDev	.004272	2.2582	.024993	.16109	.019462	2.9798	.082041
%RSD	.1755018	.8413252	1.440941	.8505503	.9341641	.6714904	1.377823

#1	2.437282	270.0012	1.752170	19.05309	2.097129	445.8637	6.012432
#2	2.431240	266.8077	1.716825	18.82528	2.069605	441.6496	5.896408

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.278711	1.890310	2.528409	437.8815	120.0228	106.7536	24.85539
SDev	.015664	.025127	.012687	2.7978	1.2908	.8679	.17115
%RSD	.4777527	1.329276	.5017931	.6389512	1.075442	.8129827	.6885936

#1	3.289787	1.872542	2.537380	439.8599	120.9355	107.3672	24.97641
#2	3.267634	1.908078	2.519438	435.9031	119.1101	106.1399	24.73437

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	29.03152	4.045963	7.032877	2.316749	4.426649	2.498887	4.939019
SDev	.21071	.020549	.129799	.088421	.069096	.069616	.036513
D	.7258112	.5078835	1.845600	3.816614	1.560899	2.785899	.7392694

#1	29.18051	4.060493	6.941095	2.379273	4.377791	2.548114	4.964838
#2	28.88252	4.031433	7.124659	2.254226	4.475507	2.449661	4.913201

Elem	Zn2138
Units	ppm
Avge	10.69673
SDev	.11964
%RSD	1.118426

#1	10.78133
#2	10.61214

Method: METALS Sample Name: 7-5 lcs 2

Operator: EAJ

Run Time: 07/15/01 21:08:06

Element:

Mode: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.444313	296.9244	1.710081	18.78467	2.063105	437.4151	5.886241
SDev	.022591	2.4201	.028830	.17509	.016666	3.7782	.071772
%RSD	.9242222	.8150724	1.685868	.9321159	.8078138	.8637642	1.219324

#1	2.460287	298.6357	1.730466	18.90848	2.074889	440.0867	5.936992
#2	2.428339	295.2131	1.689695	18.66086	2.051320	434.7435	5.835491

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.234197	1.906284	2.470096	476.4919	123.3314	108.3275	24.68566
SDev	.017077	.030436	.023260	3.6812	.8067	.7033	.19355
%RSD	.5280154	1.596606	.9416708	.7725616	.6541262	.6492383	.7840712

#1	3.246273	1.927805	2.486543	479.0949	123.9019	108.8248	24.82252
#2	3.222122	1.884762	2.453648	473.8889	122.7610	107.8302	24.54880

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	28.71633	4.012716	6.978328	2.496893	4.641918	2.517546	5.025440
SDev	.22692	.049985	.055907	.118268	.119633	.069757	.040534
SD	.7902217	1.245664	.8011512	4.736610	2.577232	2.770830	.8065856

#1	28.87679	4.048061	6.938796	2.413265	4.726511	2.566872	5.054102
#2	28.55587	3.977371	7.017860	2.580521	4.557324	2.468221	4.996778

Elem	Zn2138
Units	ppm
Avge	10.51638
SDev	.07453
%RSD	.7087405

#1	10.56908
#2	10.46368

Method: METALS Sample Name: ccb1

Operator: EAJ

Run Time: 07/15/01 21:30:53

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0005961	L.0073337	L-.004105	L-.000396	L-.000024	L.0024548	L-.002391
SDev	.0057133	.0013706	.017528	.001121	.000038	.0011572	.000846
%RSD	958.4247	18.68977	426.9672	282.8427	157.6109	47.14044	35.36805

#1	L.0046360	L.0083029	L-.016500	L.0003962	L-.000051	L.0032731	L-.001793
#2	L-.003444	L.0063645	L.0082890	L-.001189	L.0000028	L.0016365	L-.002989

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.000403	L-.000992	L-.001794	L-.003689	L-.074159	L-.007090	L.0002265
SDev	.000428	.006856	.002960	.000867	.040337	.001435	.0003199
%RSD	106.3567	691.3810	164.9916	23.50062	54.39281	20.24369	141.2696

#1	L-.000100	L.0038565	L.0002990	L-.004302	L-.102681	L-.006075	L.0004527
#2	L-.000706	L-.005840	L-.003888	L-.003076	L-.045636	L-.008105	L.0000002

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.044126	L-.003460	L-.012849	L.0023493	L-.022471	L-.017680	L-.001207
SDev	.005673	.001787	.030365	.0291316	.008396	.041958	.000619
%RSD	12.85647	51.65831	236.3299	1240.012	37.36266	237.3200	51.31627

#1	L-.040114	L-.004724	L.0086229	L.0229484	L-.028408	L.0119889	L-.000769
#2	L-.048137	L-.002196	L-.034320	L-.018250	L-.016535	L-.047349	L-.001645

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avg	L-.000980
SDev	.002819
%RSD	287.5715

#1	L.0010131
#2	L-.002974

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv1  
 Run Time: 07/15/01 21:36:35  
 Comment:  
 Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.972731	1.986634	1.984488	1.963946	1.951016	2.031748	1.983175
SDev	.018640	.002297	.031303	.016249	.016224	.010415	.013779
%RSD	.9448591	.1156441	1.577387	.8273585	.8315629	.5125956	.6947986

#1	1.985911	1.985010	2.006623	1.975436	1.962488	2.039113	1.992918
#2	1.959551	1.988259	1.962353	1.952456	1.939544	2.024384	1.973431

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.937779	2.016709	1.929127	1.895697	19.61780	1.923664	1.950169
SDev	.010729	.014235	.015225	.014287	.20169	.031663	.015357
%RSD	.5536614	.7058368	.7892063	.7536289	1.028076	1.645964	.7874683

#1	1.945365	2.026775	1.939892	1.905799	19.76041	1.946053	1.961028
#2	1.930193	2.006644	1.918361	1.885595	19.47518	1.901275	1.939310

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.909455	1.922676	1.994422	1.943376	2.020266	1.966427	1.965872
SDev	.008104	.030774	.027985	.000578	.028202	.045184	.016136
%RSD	.4244272	1.600561	1.403172	.0297508	1.395978	2.297769	.8207979

#1	1.915186	1.944436	2.014210	1.943785	2.040209	1.998376	1.977282
#2	1.903725	1.900916	1.974633	1.942967	2.000325	1.934477	1.954462

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avg	1.927804
SDev	.011892
%RSD	.6168453

#1	1.936212
#2	1.919395

Errors	QC Pass
Value	2.000000
Range	10.00000



Method: METALS Sample Name: icsa  
 Run Time: 07/15/01 21:42:17  
 Comment:  
 Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009470	485.6522	-.013335	.0009905	-.000022	468.3897	-.001035
SDev	.004625	3.5691	.006207	.0014008	.000038	1.6837	.002046
%RSD	48.83546	.7349021	46.54623	141.4213	166.9956	.3594645	197.6838

#1	-.006200	483.1285	-.017723	.0019810	.0000041	467.1991	-.002482
#2	-.012740	488.1759	-.008946	.0000000	-.000049	469.5802	.0004118

Errors Value Range	NOCHECK	QC Pass 500.0000 20.00000	NOCHECK	NOCHECK	NOCHECK	QC Pass 500.0000 20.00000	NOCHECK
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Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm						
Avg	.0012143	.0099267	.0086722	171.3719	-.000000	492.2964	-.015674
SDev	.0004267	.0097001	.0076124	1.0845	.048404	3.0212	.000731
%RSD	35.13612	97.71706	87.77878	.6328559	130e6	.6137029	4.660962

#1	.0015160	.0167857	.0140550	170.6051	-.034227	490.1601	-.015157
#2	.0009126	.0030677	.0032895	172.1388	.0342270	494.4327	-.016190

Errors Value Range	NOCHECK	NOCHECK	NOCHECK	QC Pass 200.0000 20.00000	NOCHECK	QC Pass 500.0000 20.00000	NOCHECK
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Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm						
Avg	-.083667	.0017604	.0304968	.0218315	.0358324	-.056492	-.002253
SDev	.008104	.0063580	.0238528	.0367749	.0085590	.040350	.000222
%RSD	9.686431	361.1663	78.21388	168.4489	23.88614	71.42485	9.849469

#1	-.077937	.0062562	.0473633	-.004172	.0418845	-.027961	-.002410
#2	-.089398	-.002735	.0136304	.0478353	.0297803	-.085024	-.002096

Errors Value Range	NOCHECK						
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Elem	Zn2138
Units	ppm
Avg	.0021567
SDev	.0000086
%RSD	.4002503

#1	.0021628
#2	.0021506

Errors Value Range	NOCHECK
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Method: METALS Sample Name: icsab  
 Run Time: 07/15/01 21:47:59  
 Comment:  
 Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9468044	482.4988	.9028884	.4730586	.4486912	469.9926	.8881965
SDev	.0025983	3.1800	.0425286	.0039222	.0031924	3.4855	.0058540
%RSD	.2744296	.6590769	4.710285	.8291075	.7114944	.7416010	.6590869

#1	.9486417	484.7475	.9329606	.4758320	.4509486	472.4572	.8923358
#2	.9449671	480.2502	.8728161	.4702852	.4464339	467.5280	.8840570

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000000	500.0000	1.000000	.5000000	.5000000	500.0000	1.000000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4276757	.4686796	.4757775	170.8693	-.011409	490.0358	.4280591
SDev	.0032967	.0000374	.0025375	1.0628	.032270	2.9754	.0027904
%RSD	.7708325	.0079855	.5333272	.6220129	282.8418	.6071895	.6518617

#1	.4300068	.4686531	.4775718	171.6208	-.034227	492.1397	.4300322
#2	.4253446	.4687061	.4739833	170.1177	.0114090	487.9318	.4260860

Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.5000000	.5000000	.5000000	200.0000		500.0000	.5000000
Range	20.00000	20.00000	20.00000	20.00000		20.00000	20.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9151862	.8439934	.9403615	.9442235	1.054776	.8499563	.4488546
SDev	.0105356	.0095269	.0110346	.0725875	.001426	.0072528	.0034045
%RSD	1.151199	1.128790	1.173442	7.687533	.1351623	.8533142	.7584805

#1	.9226360	.8372569	.9481642	.9955506	1.053768	.8550848	.4512620
#2	.9077364	.8507299	.9325589	.8928964	1.055784	.8448278	.4464473

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	.5000000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	Zn2138
Units	ppm
Avg	.9202155
SDev	.0042414
%RSD	.4609190

#1	.9172164
#2	.9232147

Errors	QC Pass
Value	1.000000
Range	20.00000



Method: METALS Sample Name: ccb1

Operator: EAJ

Run Time: 07/15/01 21:53:41

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.001197	L.0156354	L.0008530	L-.000396	L-.000076	L.0065461	L-.003408
SDev	.003175	.0213586	.0006947	.000560	.000034	.0046288	.001776
%RSD	265.1547	136.6036	81.44093	141.4214	45.19334	70.71068	52.10252

#1	L.0010476	L.0307383	L.0013443	L.0000000	L-.000051	L.0032731	L-.002153
#2	L-.003442	L.0005326	L.0003618	L-.000792	L-.000100	L.0098192	L-.004664

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.000706	L-.008976	L-.005084	L.0033794	L.0171135	L-.005069	L-.000452
SDev	.002297	.002007	.002537	.0017401	.1210109	.004301	.000000
%RSD	325.3055	22.36085	49.91342	51.49225	707.1085	84.85096	.0285260

#1	L.0009181	L-.007557	L-.003289	L.0021490	L.1026811	L-.002028	L-.000452
#2	L-.002330	L-.010395	L-.006878	L.0046099	L-.068454	L-.008110	L-.000452

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.047564	L.0014068	L-.026148	L.0315302	L.0032265	L-.036795	L-.001957
SDev	.025124	.0127563	.047417	.0124980	.0201935	.007684	.001794
%RSD	52.82025	906.7843	181.3380	39.63831	625.8754	20.88452	91.69326

#1	L-.029799	L-.007613	L.0073804	L.0403676	L-.011053	L-.042229	L-.000688
#2	L-.065329	L.0104269	L-.059677	L.0226928	L.0175054	L-.031361	L-.003226

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avg	L-.001298
SDev	.001043
%RSD	80.36095

#1	L-.002036
#2	L-.000561

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv1  
 Run Time: 07/15/01 21:59:24  
 Comment:  
 Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.989802	2.000580	1.976283	1.981181	1.970270	2.032567	1.987776
SDev	.004243	.017798	.004556	.009245	.006678	.000000	.006593
%RSD	.2132419	.8896263	.2305419	.4666407	.3389554	.0000000	.3316915

#1	1.986802	1.987995	1.973061	1.974643	1.965548	2.032567	1.983114
#2	1.992803	2.013165	1.979504	1.987718	1.974992	2.032567	1.992438

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.939297	2.010508	1.939294	1.909176	19.86880	1.904521	1.960351
SDev	.005149	.005194	.004229	.009648	.12101	.001360	.007999
%RSD	.2655083	.2583600	.2180785	.5053403	.6090557	.0714043	.4080418

#1	1.935656	2.006835	1.936304	1.902354	19.78323	1.905483	1.954694
#2	1.942938	2.014180	1.942285	1.915998	19.95436	1.903560	1.966007

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.917478	1.906033	1.975165	1.937423	2.017618	1.942198	1.978069
SDev	.025934	.016708	.007987	.000664	.013889	.069802	.009210
%RSD	1.352504	.8765775	.4043582	.0342801	.6883730	3.593965	.4656277

#1	1.899140	1.894218	1.980813	1.937893	2.007797	1.991556	1.971556
#2	1.935817	1.917847	1.969518	1.936953	2.027438	1.892841	1.984581

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avg	1.933670
SDev	.004593
%RSD	.2375448

#1	1.930422
#2	1.936918

Errors	QC Pass
Value	2.000000
Range	10.00000



Method: METALS Sample Name: c1f0263-01 Operator: EAJ  
 Run Time: 07/15/01 22:39:18  
 Element:  
 Mode: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.060301	24.47828	-.030897	4.687995	-.027145	1183.422	2.536317
SDev	.004210	.00689	.006248	.012607	.000377	.231	.008023
%RSD	6.981664	.0281550	20.22139	.2689130	1.390594	.0195547	.3163277
#1	-.057324	24.48315	-.026480	4.696909	-.026879	1183.586	2.530644
#2	-.063278	24.47340	-.035315	4.679081	-.027412	1183.258	2.541990
Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0168378	.0478313	.5547249	17.09216	.3422703	8.019299	29.10044
SDev	.0164866	.0252338	.0126873	.06266	.6453913	.093599	.06879
%RSD	97.91438	52.75585	2.287133	.3665804	188.5619	1.167168	.2363849
#1	.0051800	.0656743	.5636961	17.04786	-.114090	7.953114	29.05180
#2	.0284956	.0299883	.5457536	17.13647	.7986308	8.085483	29.14908
Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	13.10888	.3899059	.3457059	20.84549	-.272203	.0442409	.0359752
SDev	.08510	.0371361	.1997200	.15474	.136426	.2606345	.0033176
%RSD	.6491438	9.524384	57.77166	.7423269	50.11943	589.1261	9.221827
#1	13.16905	.3636467	.2044825	20.73607	-.368671	-.140056	.0336293
#2	13.04871	.4161651	.4869292	20.95491	-.175735	.2285373	.0383211
Elem	Zn2138						
Units	ppm						
Avge	.6977085						
SDev	.0047639						
%RSD	.6827924						
#1	.6943399						
#2	.7010771						

Method: METALS Sample Name: c1f0263-01s Operator: EAJ  
 R Time: 07/15/01 22:45:00  
 Count:  
 Mode: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8238507	28.95185	.7540098	4.336371	.8237228	954.1772	2.832956
SDev	.0127310	.12769	.0089970	.016809	.0022443	1.8978	.005075
%RSD	1.545300	.4410500	1.193221	.3876323	.2724554	.1988897	.1791410

#1	.8328528	29.04215	.7603717	4.348257	.8253097	955.5192	2.829367
#2	.8148485	28.86156	.7476480	4.324485	.8221359	952.8353	2.836544

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8327253	.8715401	1.212619	22.69651	9.269823	14.02193	24.26316
SDev	.0064487	.0030731	.008458	.01428	.282359	.05739	.01440
%RSD	.7744116	.3526051	.6975146	.0628994	3.046001	.4093056	.0593384

#1	.8281654	.8737131	1.218600	22.70661	9.070166	14.06251	24.27334
#2	.8372852	.8693671	1.206639	22.68642	9.469482	13.98135	24.25298

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.38682	1.125198	1.154123	17.58960	.6834111	.7621237	.8537274
SDev	.08104	.028481	.042380	.00262	.1858800	.0687553	.0076497
D	.3789280	2.531168	3.672082	.0149058	27.19886	9.021545	.8960398

#1	21.32951	1.105059	1.124156	17.59145	.5519741	.8107411	.8483182
#2	21.44412	1.145337	1.184090	17.58775	.8148482	.7135063	.8591366

Elem	Zn2138
Units	ppm
Avg	1.436246
SDev	.004961
%RSD	.3454100

#1	1.439754
#2	1.432738

Method: METALS Sample Name: c1f0263-01sd Operator: EAJ  
 Run Time: 07/15/01 22:50:42  
 Element:   
 Method: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8357675	37.89864	-.452773	6.812599	.7976040	1486.576	3.983103
SDev	.0000158	.02750	.020490	.016809	.0005434	.145	.025360
%RSD	.0018961	.0725619	4.525453	.2467366	.0681342	.0097257	.6366835

#1	.8357563	37.87920	-.438284	6.800713	.7972198	1486.679	3.965171
#2	.8357787	37.91809	-.467262	6.824485	.7979883	1486.474	4.001035

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8224000	.8993670	1.568481	31.87447	10.12550	17.14540	37.70650
SDev	.0142944	.0010624	.004229	.03180	.44371	.00737	.02720
%RSD	1.738127	.1181224	.2696249	.0997610	4.382071	.0429733	.0721233

#1	.8122923	.9001182	1.571471	31.85199	9.811751	17.14019	37.68727
#2	.8325076	.8986158	1.565490	31.89696	10.43925	17.15061	37.72574

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.46131	1.324264	1.450522	27.49039	.6266813	.9455030	.8267399
SDev	.05673	.080441	.174927	.09959	.0001812	.0041256	.0085079
%RSD	.2065876	6.074384	12.05961	.3622891	.0289192	.4363422	1.029084

#1	27.42120	1.267384	1.574214	27.41997	.6265532	.9425858	.8207239
#2	27.50143	1.381144	1.326829	27.56082	.6268095	.9484203	.8327558

Elem	Zn2138
Units	ppm
Avg	1.880792
SDev	.025193
%RSD	1.339463

#1	1.862979
#2	1.898606

Method: METALS Sample Name: c1f0263-01ps Operator: EAJ  
 Run Time: 07/15/01 22:56:25  
 Content:  
 Method: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.877143	72.84917	4.771789	9.434429	4.769040	1211.104	7.242552
SDev	.022347	.41682	.050883	.093852	.025244	1.470	.002989
%RSD	.4581972	.5721734	1.066324	.9947812	.5293367	.1213534	.0412754

#1	4.861341	72.55443	4.807768	9.368066	4.751189	1210.065	7.244666
#2	4.892944	73.14391	4.735809	9.500792	4.786890	1212.143	7.240438

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.610132	4.841331	5.331938	63.56052	51.91101	54.79577	33.31397
SDev	.001426	.035420	.023260	.21666	1.45213	.21584	.13598
%RSD	.0309373	.7316143	.4362392	.3408684	2.797341	.3938899	.4081727

#1	4.609123	4.866377	5.315490	63.40733	50.88420	54.64315	33.21782
#2	4.611140	4.816286	5.348385	63.71373	52.93782	54.94839	33.41012

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	62.73066	4.961569	5.071583	25.41967	4.857163	4.636366	4.815285
SDev	.84691	.057111	.142712	.08673	.204206	.400315	.025838
%RSD	1.350070	1.151074	2.813952	.3411956	4.204214	8.634244	.5365769

#1	62.13180	5.001953	5.172496	25.35834	4.712769	4.353301	4.797015
#2	63.32951	4.921185	4.970671	25.48100	5.001559	4.919432	4.833555

Elem	Zn2138
Units	ppm
Avge	5.426327
SDev	.009905
%RSD	.1825394

#1	5.419323
#2	5.433331

Method: METALS Sample Name: ccb1

Operator: EAJ

Run Time: 07/15/01 23:02:07

Comment:

Units: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.000296	L.0082564	L-.011652	L-.000594	L.0000484	L.0171835	L-.003109
SDev	.001903	.0027293	.002213	.000840	.0000040	.0081004	.000169
%RSD	642.3976	33.05628	18.99392	141.4214	8.281508	47.14045	5.425179

#1	L.0010496	L.0063266	L-.010087	L.0000000	L.0000513	L.0114557	L-.002990
#2	L-.001642	L.0101863	L-.013217	L-.001189	L.0000456	L.0229114	L-.003228

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0018288	L-.003721	L-.002990	L.0015424	L-.068454	L.0000058	L.0004525
SDev	.0027282	.001829	.000423	.0030453	.112943	.0114564	.0000003
%RSD	149.1815	49.15870	14.14213	197.4305	164.9915	196865.9	.0759529

#1	L-.000100	L-.002428	L-.002691	L.0036957	L-.148317	L.0081067	L.0004523
#2	L.0037579	L-.005015	L-.003289	L-.000611	L.0114090	L-.008095	L.0004527

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.062464	L-.001515	L.0014956	L.0079933	L-.000312	L-.029971	L.0024548
SDev	.000810	.007679	.0168126	.0078541	.006106	.043148	.0023769
%RSD	1.297465	506.9862	1124.142	98.25910	1957.437	143.9645	96.82838

#1	L-.061891	L.0039153	L-.010393	L.0024396	L-.004629	L-.060481	L.0007740
#2	L-.063037	L-.006945	L.0133839	L.0135469	L.0040055	L.0005390	L.0041355

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avg	L-.000909
SDev	.001872
%RSD	205.9575

#1	L-.002232
#2	L.0004147

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv1

Operator: EAJ

Time: 07/15/01 23:07:49

ent:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.997139	2.011709	1.977000	1.982567	1.982463	2.031748	1.987238
SDev	.004021	.002086	.013906	.000560	.003868	.001157	.009385
%RSD	.2013158	.1037147	.7034111	.0282613	.1951016	.0569551	.4722428

#1	1.994296	2.010233	1.967167	1.982964	1.979728	2.030930	1.980602
#2	1.999982	2.013184	1.986833	1.982171	1.985198	2.032567	1.993874

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.937882	1.990649	1.938995	1.912055	19.99430	1.900458	1.955826
SDev	.004011	.004234	.002960	.001097	.00807	.010047	.000960
%RSD	.2069976	.2127108	.1526767	.0573683	.0403511	.5286646	.0490680

#1	1.935045	1.987655	1.936902	1.911279	20.00000	1.893354	1.955147
#2	1.940718	1.993643	1.941089	1.912831	19.98859	1.907563	1.956504

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.885960	1.907000	1.993544	1.963903	2.021162	1.954993	1.983056
SDev	.025124	.006494	.016785	.035246	.006129	.022580	.000156
%RSD	1.332141	.3405121	.8419460	1.794707	.3032579	1.155005	.0078468

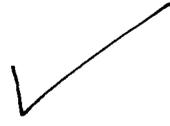
#1	1.903725	1.911592	2.005412	1.988826	2.016828	1.939026	1.983165
#2	1.868195	1.902408	1.981675	1.938981	2.025496	1.970959	1.982945

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avge	1.939799
SDev	.008797
%RSD	.4535123

#1	1.933579
#2	1.946020

Errors	QC Pass
value	2.000000
Range	10.00000



Method: METALS Sample Name: c1f0263-01psd Operator: EAJ  
 F Time: 07/15/01 23:13:31  
 C ent:  
 Mode: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.779035	71.85528	4.669947	9.270998	4.674896	1188.900	7.115353
SDev	.009753	.52717	.023193	.114863	.026912	4.924	.029124
%RSD	.2040743	.7336535	.4966489	1.238946	.5756693	.4141519	.4093189

#1	4.785931	72.22804	4.653547	9.352219	4.693925	1192.382	7.135947
#2	4.772138	71.48251	4.686347	9.189778	4.655866	1185.418	7.094759

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.534788	4.707547	5.227272	62.55529	50.85568	53.81525	32.90449
SDev	.013544	.001145	.014802	.31257	.36303	.06559	.15838
%RSD	.2986608	.0243164	.2831682	.4996772	.7138476	.1218798	.4813255

#1	4.544365	4.706738	5.237739	62.77632	51.11238	53.86163	33.01649
#2	4.525211	4.708356	5.216806	62.33427	50.59898	53.76887	32.79251

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	61.55014	4.843379	5.268073	25.18934	4.677445	4.636916	4.740193
SDev	.59568	.061285	.131090	.18037	.082127	.049388	.029361
D	.9677919	1.265340	2.488390	.7160500	1.755817	1.065098	.6194018

#1	61.97134	4.886715	5.175378	25.31688	4.619371	4.671839	4.760954
#2	61.12893	4.800044	5.360768	25.06180	4.735517	4.601994	4.719432

Elem	Zn2138
Units	ppm
Avge	5.304745
SDev	.037146
%RSD	.7002323

#1	5.331010
#2	5.278479

Method: METALS Sample Name: c1f0263-02

Operator: EAJ

Run Time: 07/15/01 23:19:13

Comment:

Mode: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.017296	22.18413	.0641637	3.870840	-.046042	1015.035	2.178052
SDev	.019045	.00343	.0023744	.008405	.000369	.330	.007607
%RSD	110.1147	.0154786	3.700583	.2171257	.8011342	.0324973	.3492493

#1	-.030763	22.18656	.0658426	3.864897	-.046303	1015.269	2.172674
#2	-.003829	22.18171	.0624847	3.876783	-.045781	1014.802	2.183431

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0178585	.0781412	1.409988	28.91871	.7415856	16.68642	24.73027
SDev	.0114506	.0252112	.016916	.01734	.2420217	.04295	.00640
%RSD	64.11871	32.26367	1.199755	.0599526	32.63570	.2574070	.0258721

#1	.0097616	.0603142	1.398026	28.90645	.5704505	16.65605	24.73479
#2	.0259552	.0959683	1.421950	28.93097	.9127208	16.71679	24.72575

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	14.81662	.4100603	.4102565	15.25519	-.053252	.1452342	.0144131
SDev	.02837	.0284552	.0684334	.18065	.016910	.0323906	.0017893
D	.1914416	6.939280	16.68064	1.184161	31.75446	22.30232	12.41409

#1	14.83668	.3899394	.3618668	15.38293	-.041295	.1681378	.0131479
#2	14.79656	.4301812	.4586463	15.12746	-.065209	.1223305	.0156783

Elem	Zn2138
Units	ppm
Avge	.9527398
SDev	.0066396
%RSD	.6968914

#1	.9574347
#2	.9480450

Method: METALS Sample Name: c1f0263-03

Operator: EAJ

Run Time: 07/15/01 23:24:56

Comment:

Mode: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.080388	35.93861	.2520572	8.522187	-.078131	1472.756	1.183406
SDev	.002114	.08256	.0355525	.019610	.000021	.608	.003381
%RSD	2.630356	.2297381	14.10494	.2301063	.0266483	.0412549	.2856953

#1	-.078893	35.88022	.2771966	8.536054	-.078116	1473.185	1.181015
#2	-.081883	35.99699	.2269178	8.508321	-.078146	1472.326	1.185797

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0196520	.2232717	.6967703	57.71937	.6845406	9.960816	41.51215
SDev	.0014443	.0020845	.0063436	.00648	.1613479	.028621	.00480
%RSD	7.349308	.9336249	.9104301	.0112299	23.57024	.2873333	.0115662

#1	.0186307	.2247457	.7012559	57.71479	.5704505	9.940579	41.51555
#2	.0206732	.2217977	.6922847	57.72395	.7986308	9.981054	41.50876

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	15.44126	.4489385	.4737414	25.79410	-.165708	-.074963	.3305863
SDev	.05268	.0127302	.0566612	.01984	.013644	.058590	.0123345
D	.3411564	2.835628	11.96036	.0769248	8.233704	78.15839	3.731101

#1	15.47851	.4579401	.5138069	25.80813	-.175355	-.033534	.3218644
#2	15.40401	.4399368	.4336759	25.78007	-.156060	-.116392	.3393081

Elem	Zn2138
Units	ppm
Avge	1.550598
SDev	.015119
%RSD	.9750598

#1	1.561289
#2	1.539907

Method: METALS Sample Name: c1f0263-04

Operator: EAJ

Run Time: 07/15/01 23:30:38

Concentration:

Method: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.153571	24.89711	-.029329	6.717512	-.064809	770.6284	.4446747
SDev	.015677	.26224	.039964	.092451	.000019	4.2990	.0134810
%RSD	10.20860	1.053299	136.2625	1.376273	.0290286	.5578571	3.031656

#1	-.164657	25.08254	-.057588	6.782885	-.064796	773.6683	.4542072
#2	-.142486	24.71167	-.001070	6.652139	-.064823	767.5886	.4351422

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0244129	.0526774	1.248505	39.25514	1.083856	18.98913	15.35690
SDev	.0050693	.0231107	.012687	.33167	.242022	.09383	.10878
%RSD	20.76487	43.87213	1.016199	.8449207	22.32970	.4941478	.7083682

#1	.0208284	.0363357	1.257476	39.48967	.9127208	19.05549	15.43382
#2	.0279975	.0690192	1.239534	39.02061	1.254991	18.92278	15.27998

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	17.79942	.3240930	.2117516	10.81088	-.219639	-.142764	.0721033
SDev	.22692	.0354420	.0352215	.13487	.085800	.293671	.0111447
%RSD	1.274880	10.93575	16.63342	1.247563	39.06410	205.7039	15.45652

#1	17.95988	.3491542	.2366570	10.90625	-.158969	-.350421	.0642228
#2	17.63897	.2990317	.1868462	10.71551	-.280309	.0648928	.0799838

Elem	Zn2138
Units	ppm
Avge	.6638901
SDev	.0112259
%RSD	1.690933

#1	.6718281
#2	.6559522

Method: METALS Sample Name: c1f0263-05 Operator: EAJ  
 Run Time: 07/15/01 23:36:20  
 Comment:  
 Mode: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0083106	78.00943	1.273278	14.82766	-.255120	2768.484	1.559570
SDev	.0031590	.07219	.046454	.00280	.000022	1.221	.002538
%RSD	38.01115	.0925373	3.648398	.0188921	.0086980	.0440986	.1627317

#1	.0060769	77.95838	1.306126	14.82567	-.255104	2769.348	1.557776
#2	.0105443	78.06047	1.240430	14.82964	-.255135	2767.621	1.561365

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0437810	.1733046	1.581938	48.28205	2.196235	29.44033	75.73895
SDev	.0021461	.0131864	.002115	.01069	.524380	.09324	.01919
%RSD	4.901859	7.608778	.1336763	.0221347	23.87633	.3167118	.0253432

#1	.0452985	.1826287	1.580442	48.28960	1.825442	29.37439	75.72537
#2	.0422635	.1639804	1.583433	48.27449	2.567028	29.50626	75.75252

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.53295	.7708850	1.568401	45.65838	-.201861	-.134635	1.120047
SDev	.00405	.0147209	.041649	.26955	.065828	.010190	.013147
%RSD	.0158677	1.909608	2.655519	.5903530	32.61044	7.568212	1.173823

#1	25.53009	.7812942	1.538950	45.46778	-.155314	-.141841	1.110750
#2	25.53582	.7604758	1.597851	45.84898	-.248408	-.127430	1.129344

Elem	Zn2138
Units	ppm
Avge	4.521467
SDev	.016303
%RSD	.3605705

#1	4.509939
#2	4.532995

Method: METALS Sample Name: c1f0263-06 Operator: EAJ  
 Run Time: 07/15/01 23:42:02  
 Comment:  
 Mode: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1390589	187.3877	.3639939	22.68918	-.123114	8326.490	7.253134
SDev	.0137613	.4275	.0399396	.07144	.000006	3.003	.004669
%RSD	9.896019	.2281510	10.97260	.3148604	.0051693	.0360672	.0643702

#1	.1487896	187.0854	.3357524	22.63867	-.123109	8328.614	7.256435
#2	.1293282	187.6900	.3922355	22.73970	-.123118	8324.367	7.249833

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0963716	.3681272	1.209629	47.75425	3.223046	20.36880	225.1770
SDev	.0000072	.0181644	.004229	.13051	.201685	.04637	.5647
%RSD	.0074347	4.934269	.3496195	.2732857	6.257588	.2276635	.2507878

#1	.0963665	.3809713	1.212619	47.66196	3.365659	20.40159	224.7777
#2	.0963767	.3552830	1.206639	47.84653	3.080434	20.33601	225.5763

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	70.32951	1.672112	3.743565	156.7457	-.247365	-.082299	1.119515
SDev	.14183	.086351	.014514	.2751	.018533	.001964	.003768
D	.2016639	5.164205	.3876925	.1755224	7.492005	2.386587	.3365379

#1	70.22922	1.733172	3.753828	156.9403	-.234260	-.080911	1.116850
#2	70.42979	1.611053	3.733303	156.5512	-.260469	-.083688	1.122179

Elem	Zn2138
Units	ppm
Avge	2.733904
SDev	.030128
%RSD	1.102023

#1	2.712600
#2	2.755208

Method: METALS Sample Name: c1f0263-07 Operator: EAJ  
 Run Time: 07/15/01 23:47:44  
 Comment:  
 Mode: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1318824	168.6773	.3116877	20.21494	-.110063	7684.874	6.077771
SDev	.0074052	.7622	.0510854	.16669	.001498	50.784	.054495
%RSD	5.614978	.4518421	16.38994	.8246005	1.360663	.6608298	.8966259

#1	.1371187	169.2163	.2755648	20.33281	-.109004	7720.784	6.116304
#2	.1266462	168.1384	.3478105	20.09707	-.111122	7648.965	6.039237

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0879553	.3188677	1.119916	43.61172	3.650884	18.33727	203.0809
SDev	.0144387	.0029845	.021145	.26606	.242022	.20063	1.0878
%RSD	16.41589	.9359624	1.888132	.6100604	6.629126	1.094132	.5356678

#1	.0777456	.3167573	1.134868	43.79986	3.479749	18.47914	203.8502
#2	.0981650	.3209780	1.104964	43.42359	3.822019	18.19540	202.3117

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	62.36103	1.472257	3.298441	141.9601	-.328706	-.010729	.8656630
SDev	.73750	.003968	.080228	.5292	.181043	.042434	.0059684
D	1.182627	.2695096	2.432291	.3728092	55.07747	395.5123	.6894568

#1	62.88252	1.475062	3.241712	142.3343	-.456723	-.040734	.8614428
#2	61.83954	1.469451	3.355171	141.5859	-.200689	.0192764	.8698834

Elem	Zn2138
Units	ppm
Avge	2.499202
SDev	.045462
%RSD	1.819066

#1	2.531348
#2	2.467055

Method: METALS Sample Name: c1f0263-08

Operator: EAJ

Run Time: 07/15/01 23:53:26

Comment:

Mode: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.015032	36.87367	.0932526	8.953051	-.060674	1612.123	4.559022
SDev	.001927	.11725	.0137223	.046225	.000001	7.412	.024923
%RSD	12.81605	.3179862	14.71521	.5163079	.0011679	.4597570	.5466657

#1	-.016394	36.95658	.0835494	8.985737	-.060674	1617.363	4.576645
#2	-.013670	36.79076	.1029557	8.920364	-.060675	1606.882	4.541399

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0198997	.1465595	1.955742	36.82190	.6845406	14.41128	42.03917
SDev	.0006913	.0020257	.014802	.13403	.1613479	.08688	.13918
%RSD	3.474092	1.382165	.7568428	.3639908	23.57024	.6028690	.3310795

#1	.0203885	.1479919	1.966208	36.91667	.7986308	14.47272	42.13759
#2	.0194108	.1451271	1.945275	36.72713	.5704505	14.34985	41.94075

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	17.05444	.8854713	1.454524	26.90719	-.187806	-.118851	.1148577
SDev	.08915	.0226034	.113807	.25548	.018513	.269312	.0004186
D	.5227241	2.552697	7.824362	.9494761	9.857246	226.5963	.3644394

#1	17.11748	.8694884	1.534998	27.08784	-.200896	.0715814	.1145617
#2	16.99140	.9014544	1.374050	26.72654	-.174716	-.309283	.1151537

Elem	Zn2138
Units	ppm
Avge	2.001345
SDev	.001675
%RSD	.0836979

#1	2.002530
#2	2.000161

Method: METALS Sample Name: c1f0263-09  
 Run Time: 07/15/01 23:59:08  
 Element:  
 Mode: CONC Corr. Factor: 5

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0265667	46.78073	-.415322	9.784073	-.005255	2996.179	5.130401
SDev	.0096457	.15873	.038032	.014008	.000011	6.804	.010146
%RSD	36.30770	.3393087	9.157173	.1431673	.2171602	.2270951	.1977543

#1	.0333873	46.89297	-.442214	9.793978	-.005247	3000.990	5.137575
#2	.0197461	46.66850	-.388429	9.774168	-.005263	2991.367	5.123227

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1415346	.2290870	2.733254	44.32002	1.853964	14.26619	77.18510
SDev	.0021807	.0141554	.006344	.00227	.282359	.03575	.00960
%RSD	1.540761	6.179072	.2321023	.0051185	15.22999	.2506111	.0124412

#1	.1399926	.2390964	2.728768	44.32163	1.654307	14.24091	77.19190
#2	.1430765	.2190776	2.737739	44.31842	2.053622	14.29147	77.17831

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	31.30946	2.109449	1.645851	54.61753	-.113797	-.097741	-.002520
SDev	.01216	.046126	.061422	.10734	.102039	.005946	.006760
%RSD	.0388248	2.186646	3.731910	.1965259	89.66788	6.083508	268.2608

#1	31.31805	2.142065	1.689283	54.54163	-.185949	-.101946	-.007300
#2	31.30086	2.076833	1.602420	54.69343	-.041644	-.093537	.0022602

Elem	Zn2138
Units	ppm
Avge	2.054146
SDev	.027250
%RSD	1.326600

#1	2.034877
#2	2.073415

Method: METALS Sample Name: clf0263-10 Operator: EAJ  
 Time: 07/16/01 00:04:50  
 ent:  
 Mode: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0563893	72.72375	1.172064	15.74188	-.245947	2763.121	6.205416
SDev	.0051839	.06185	.011444	.02942	.000390	4.826	.007607
%RSD	9.193056	.0850423	.9763869	.1868634	.1587661	.1746502	.1225810

#1	.0527237	72.76749	1.180156	15.72108	-.246223	2766.533	6.210794
#2	.0600549	72.68002	1.163972	15.76268	-.245671	2759.709	6.200037

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0299940	.1275015	1.362141	47.83196	1.112379	17.44213	77.31623
SDev	.0100321	.0121691	.012687	.01620	.443706	.07173	.01280
%RSD	33.44704	9.544274	.9314293	.0338585	39.88807	.4112334	.0165508

#1	.0229002	.1188966	1.353170	47.84341	.7986308	17.39141	77.30718
#2	.0370878	.1361063	1.371112	47.82051	1.426126	17.49285	77.32528

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.29226	.9162511	.9763062	53.62627	-.047274	-.093529	.0476853
SDev	.11751	.0083808	.0129901	.03671	.045449	.050513	.0110230
D	.4646117	.9146810	1.330538	.0684633	96.13812	54.00770	23.11610

#1	25.37535	.9221772	.9854916	53.65223	-.015137	-.129247	.0554798
#2	25.20917	.9103250	.9671208	53.60031	-.079412	-.057811	.0398909

Elem	Zn2138
Units	ppm
Avge	.8421391
SDev	.0000025
%RSD	.0003003

#1	.8421373
#2	.8421409

Method: METALS Sample Name: ccb3

Operator: EAJ

Print Time: 07/16/01 00:10:32

Content:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0005963	L-.009743	L-.006596	L.0005943	L.0000005	L.0032731	L-.004423
SDev	.0023277	.011734	.001674	.0019611	.0000003	.0000000	.001860
%RSD	390.3574	120.4381	25.37703	329.9832	61.73119	.0000000	42.05431

#1	L-.001050	L-.018041	L-.007779	L-.000792	L.0000008	L.0032731	L-.005739
#2	L.0022423	L-.001446	L-.005412	L.0019810	L.0000003	L.0032731	L-.003108

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0014245	L-.001852	L.0014952	L-.005537	L-.034227	L.0010151	L-.000000
SDev	.0035826	.005648	.0042291	.000870	.129078	.0329540	.000001
%RSD	251.4938	305.0344	282.8427	15.71348	377.1232	3246.456	3224.456

#1	L-.001109	L-.005846	L-.001495	L-.004922	L-.125499	L-.022287	L.0000007
#2	L.0039578	L.0021423	L.0044856	L-.006152	L.0570450	L.0243171	L-.000001

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.097421	L-.006096	L-.021541	L.0119746	L-.028736	L-.024256	L-.000307
SDev	.022692	.000981	.016053	.0077614	.030837	.011720	.000190
%RSD	23.29298	16.09189	74.52428	64.81599	107.3133	48.31781	61.73225

#1	L-.113467	L-.005403	L-.032892	L.0174627	L-.050541	L-.015969	L-.000441
#2	L-.081375	L-.006790	L-.010189	L.0064864	L-.006931	L-.032544	L-.000173

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avg	L-.002280
SDev	.000536
%RSD	23.49829

#1	L-.002659
#2	L-.001902

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv3  
 Run Time: 07/16/01 00:16:14  
 Comment:  
 Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.965359	1.969933	1.929588	1.926506	1.931033	1.987562	1.944140
SDev	.014618	.031507	.018057	.014848	.022249	.008100	.007607
%RSD	.7437976	1.599397	.9358203	.7707261	1.152163	.4075573	.3912957

#1	1.975696	1.992211	1.942357	1.937005	1.946765	1.993290	1.949520
#2	1.955023	1.947654	1.916820	1.916006	1.915301	1.981834	1.938761

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.892023	1.925014	1.882476	1.863957	19.66343	1.869516	1.896551
SDev	.012747	.011413	.021991	.013165	.16941	.001569	.011838
%RSD	.6737043	.5928671	1.168216	.7062969	.8615695	.0839413	.6242011

#1	1.901036	1.933084	1.898026	1.873267	19.78323	1.870626	1.904922
#2	1.883010	1.916944	1.866926	1.854648	19.54364	1.868406	1.888180

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.865329	1.850903	1.908722	1.904018	1.994909	1.881665	1.933658
SDev	.017019	.014280	.024528	.001442	.066976	.056042	.015956
%RSD	.9123893	.7715078	1.285072	.0757485	3.357336	2.978325	.8251696

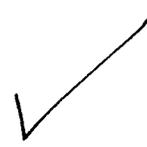
#1	1.877364	1.861000	1.891378	1.905038	2.042269	1.921292	1.944940
#2	1.853295	1.840805	1.926066	1.902998	1.947550	1.842037	1.922375

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avg	1.889827
SDev	.019310
%RSD	1.021804

#1	1.903482
#2	1.876173

Errors	QC Pass
Value	2.000000
Range	10.00000



Method: METALS Sample Name: c1f0263-11 Operator: EAJ  
Run Time: 07/16/01 00:21:56  
Content:  
Mode: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0351818	17.33205	-.446114	8.327061	-.003548	920.7307	1.536497
SDev	.0124596	.18997	.052145	.121866	.000221	5.8266	.000056
%RSD	35.41494	1.096076	11.68867	1.463499	6.241220	.6328183	.0036153

#1	.0439921	17.19772	-.409242	8.240888	-.003705	916.6107	1.536536
#2	.0263716	17.46638	-.482986	8.413233	-.003392	924.8507	1.536458

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0211013	.0927652	1.670155	46.55273	1.140901	24.97491	15.21305
SDev	.0093526	.0523006	.016916	.39607	.564718	.10831	.13278
%RSD	44.32256	56.37961	1.012863	.8508041	49.49750	.4336860	.8727994

#1	.0277146	.1297473	1.682117	46.27266	1.540217	24.89832	15.11916
#2	.0144880	.0557830	1.658194	46.83279	.7415856	25.05149	15.30694

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.61604	.3483702	.3526925	9.905144	-.109088	-.166349	-.000884
SDev	.06078	.0137399	.1152470	.167285	.045367	.033367	.021034
D	.4817819	3.944056	32.67635	1.688865	41.58713	20.05865	2380.005

#1	12.57307	.3580857	.4341845	9.786856	-.077009	-.189943	.0139892
#2	12.65902	.3386546	.2712006	10.02343	-.141167	-.142755	-.015757

Elem	Zn2138
Units	ppm
Avge	1.838857
SDev	.021755
%RSD	1.183055

#1	1.823474
#2	1.854240

Method: METALS Sample Name: c1f0263-12

Operator: EAJ

Run Time: 07/16/01 00:27:38

Content:

Method: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0103137	46.23428	.1742871	9.184826	-.069780	1891.245	4.469154
SDev	.0031270	.04495	.0055472	.018209	.000573	2.650	.037196
%RSD	30.31890	.0972152	3.182782	.1982559	.8211986	.1401154	.8322927

#1	.0081026	46.20250	.1782096	9.171949	-.070185	1893.118	4.442852
#2	.0125249	46.26606	.1703647	9.197702	-.069374	1889.371	4.495456

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0292150	.0770171	1.535586	31.79506	2.110667	26.30990	43.75713
SDev	.0079053	.0211476	.004229	.02659	1.048761	.13642	.05119
%RSD	27.05910	27.45834	.2754062	.0836408	49.68860	.5185155	.1169956

#1	.0348049	.0919707	1.532596	31.77626	2.852253	26.21344	43.72094
#2	.0236251	.0620635	1.538577	31.81387	1.369081	26.40636	43.79333

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	20.56160	.2369504	.8467057	31.39640	-.119442	-.080818	.1344790
SDev	.00810	.0210137	.0952198	.08590	.197149	.146818	.0090100
%RSD	.0394083	8.868405	11.24592	.2735983	165.0588	181.6652	6.699949

#1	20.55587	.2518094	.9140363	31.33565	.0199637	.0229981	.1408501
#2	20.56733	.2220915	.7793751	31.45714	-.258847	-.184634	.1281080

Elem	Zn2138
Units	ppm
Avge	1.925669
SDev	.002770
%RSD	.1438492

#1	1.923710
#2	1.927627

Method: METALS Sample Name: c1f0263-13 Operator: EAJ  
 F Time: 07/16/01 00:33:20  
 ( ent:  
 Mode: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3568950	151.2757	5.581058	34.23732	-.937462	5098.003	3.868750
SDev	.0088628	.7001	.042155	.15969	.000196	15.923	.076898
%RSD	2.483298	.4628075	.7553278	.4664169	.0209102	.3123384	1.987673

#1	.3506281	150.7806	5.551249	34.12441	-.937601	5086.744	3.814375
#2	.3631619	151.7707	5.610866	34.35024	-.937324	5109.262	3.923125

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1421775	.2792569	3.391148	62.95150	3.508272	25.12069	155.7018
SDev	.0001000	.0010393	.023260	.28169	.685729	.05542	.7919
%RSD	.0703226	.3721735	.6859084	.4474789	19.54605	.2206233	.5086020

#1	.1422482	.2785220	3.374701	62.75231	3.993155	25.08150	155.1418
#2	.1421068	.2799918	3.407596	63.15069	3.023388	25.15988	156.2617

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	54.26933	3.055001	1.119057	101.6738	-.046083	-.251018	.0867274
SDev	.37280	.022669	.006701	.5971	.133139	.203471	.0059545
%RSD	.6869479	.7420160	.5987635	.5872824	288.9092	81.05830	6.865735

#1	54.00572	3.071031	1.123795	101.2516	-.140227	-.394894	.0909379
#2	54.53294	3.038972	1.114319	102.0960	.0480603	-.107142	.0825170

Elem	Zn2138
Units	ppm
Avge	1.343816
SDev	.010874
%RSD	.8092114

#1	1.336126
#2	1.351505

Method: METALS Sample Name: c1f0263-15 Operator: EAJ  
 Time: 07/16/01 00:39:03  
 ( ent:  
 Mode: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.012157	6.897401	-.880400	5.250594	-.001533	623.5005	.0703010
SDev	.007349	.034377	.028324	.007003	.000197	1.6317	.0152111
%RSD	60.45058	.4984050	3.217220	.1333841	12.88260	.2616980	21.63712

#1	-.017354	6.921709	-.900428	5.255547	-.001672	624.6543	.0810569
#2	-.006961	6.873093	-.860372	5.245642	-.001393	622.3467	.0595451

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0251210	.0678768	1.226077	40.17252	.7130631	42.98317	4.244185
SDev	.0042921	.0010438	.006344	.05222	.0403369	.12178	.001596
%RSD	17.08582	1.537839	.5173907	.1299934	5.656847	.2833314	.0376008

#1	.0281560	.0671387	1.230562	40.20944	.6845406	43.06929	4.245314
#2	.0220860	.0686149	1.221591	40.13559	.7415856	42.89706	4.243057

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.59026	2.132529	.3972056	2.623812	-.216013	.0875653	.0510908
SDev	.06484	.003518	.0248764	.025664	.183991	.1573151	.0068056
%RSD	.5149643	.1649644	6.262863	.9781340	85.17580	179.6546	13.32060

#1	12.63610	2.130042	.4147959	2.641959	-.085912	.1988038	.0559031
#2	12.54441	2.135017	.3796153	2.605664	-.346115	-.023673	.0462785

Elem	Zn2138
Units	ppm
Avge	.7213846
SDev	.0113871
%RSD	1.578502

#1	.7133328
#2	.7294365

Method: METALS Sample Name: ccb3

Operator: EAJ

Run Time: 07/16/01 00:44:44

Content:

Method: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0022423	L.0029481	L-.011609	L.0001981	L-.000077	L.0130922	L-.005918
SDev	.0033892	.0158153	.003837	.0019611	.000032	.0046288	.000085
%RSD	151.1487	536.4583	33.04989	989.9489	41.18460	35.35534	1.433277

#1	L.0046388	L.0141312	L-.014322	L.0015848	L-.000055	L.0163653	L-.005978
#2	L-.000154	L-.008235	L-.008896	L-.001189	L-.000099	L.0098192	L-.005858

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L.0008158	L-.001561	L-.000299	L-.003847	L.0285225	L.0081033	L-.000226
SDev	.0018614	.006440	.005075	.001967	.2500891	.0143347	.000959
%RSD	228.1663	412.5814	1697.056	51.12292	876.8134	176.9000	423.6180

#1	L.0021320	L.0029927	L.0032895	L-.002457	.2053622	L.0182395	L.0004519
#2	L-.000500	L-.006114	L-.003888	L-.005238	L-.148317	L-.002033	L-.000905

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.100860	L-.002290	L-.011877	L.0083761	L-.004031	L-.001714	L-.001149
SDev	.035659	.002653	.002851	.0357021	.006815	.012926	.003257
%RSD	35.35530	115.8393	24.00788	426.2369	169.0605	754.3230	283.4506

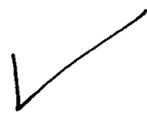
#1	L-.075645	L-.000414	L-.009860	L.0336213	L.0007878	L-.010853	L.0011539
#2	L-.126074	L-.004166	L-.013893	L-.016869	L-.008850	L.0074262	L-.003452

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avg	L-.002061
SDev	.001281
%RSD	62.14982

#1	L-.001155
#2	L-.002967

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv3

Operator: EAJ

F Time: 07/16/01 00:50:26

C ent:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.961446	1.984273	1.889021	1.922543	1.915944	1.960560	1.921784
SDev	.040878	.034717	.034165	.051268	.037132	.018515	.019441
%RSD	2.084091	1.749622	1.808622	2.666681	1.938051	.9443831	1.011616

#1	1.932540	1.959725	1.864862	1.886292	1.889687	1.947467	1.908037
#2	1.990351	2.008822	1.913179	1.958795	1.942200	1.973652	1.935531

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.863352	1.890878	1.873206	1.843481	19.77752	1.837925	1.878452
SDev	.025767	.025037	.042714	.034244	.52438	.011779	.032315
%RSD	1.382856	1.324111	2.280265	1.857563	2.651398	.6408877	1.720322

#1	1.845132	1.873174	1.843002	1.819267	19.40673	1.829596	1.855602
#2	1.881573	1.908583	1.903409	1.867695	20.14832	1.846254	1.901303

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.857306	1.831520	1.895556	1.916811	1.926640	1.878042	1.915364
SDev	.028365	.031949	.010475	.012372	.038295	.001592	.033196
%RSD	1.527221	1.744426	.5526220	.6454666	1.987638	.0847451	1.733154

#1	1.837249	1.808928	1.902964	1.908063	1.899561	1.876917	1.891891
#2	1.877364	1.854111	1.888149	1.925560	1.953718	1.879168	1.938837

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avg	1.869757
SDev	.027337
%RSD	1.462077

#1	1.850427
#2	1.889088

Errors	QC Pass
Value	2.000000
Range	10.00000



Method: METALS Sample Name: icsa  
 Run Time: 07/16/01 00:56:07  
 Comment:  
 Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007439	478.2630	-.068879	.0017829	.0001115	450.5384	.0037883
SDev	.001259	2.8201	.004051	.0002802	.0000758	2.1026	.0009939
%RSD	16.92238	.5896496	5.880839	15.71349	67.97700	.4666933	26.23495

#1	-.008329	480.2571	-.066015	.0019810	.0000579	452.0252	.0030856
#2	-.006549	476.2689	-.071743	.0015848	.0001651	449.0516	.0044911

Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value		500.0000				500.0000	
Range		20.00000				20.00000	

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005026	.0096378	.0083732	165.5289	-.017114	476.4019	-.017007
SDev	.0011467	.0000845	.0012687	.4561	.056472	1.6732	.000050
%RSD	228.1473	.8766940	15.15229	.2755592	329.9824	.3512220	.2951545

#1	-.000308	.0096975	.0074761	165.8514	-.057045	477.5851	-.017042
#2	.0013134	.0095780	.0092703	165.2064	.0228180	475.2188	-.016972

Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value				200.0000		500.0000	
Range				20.00000		20.00000	

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.151862	-.002082	.0067170	.0236094	.1571133	-.001824	-.003758
SDev	.012157	.000581	.0061725	.0317814	.0271085	.012908	.000851
%RSD	8.004961	27.89878	91.89298	134.6138	17.25412	707.5883	22.65414

#1	-.160458	-.002492	.0110816	.0460822	.1379446	-.010952	-.003156
#2	-.143266	-.001671	.0023524	.0011365	.1762819	.0073032	-.004360

Errors	NOCHECK						
Value							
Range							

Elem	Zn2138
Units	ppm
Avg	.0012954
SDev	.0015451
%RSD	119.2732

#1	.0023879
#2	.0002029

Errors	NOCHECK
Value	
Range	



Method: METALS Sample Name: icsab  
 F Time: 07/16/01 01:01:49  
 C ent:  
 Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9431860	479.9110	.8163207	.4647385	.4386968	452.9638	.8622876
SDev	.0057785	3.1338	.0290354	.0033618	.0014462	1.0496	.0089562
%RSD	.6126532	.6530039	3.556860	.7233793	.3296500	.2317161	1.038652

#1	.9391000	477.6950	Q.7957896	.4623613	.4376742	452.2216	.8559547
#2	.9472720	482.1269	.8368518	.4671157	.4397194	453.7059	.8686206

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000000	500.0000	1.000000	.5000000	.5000000	500.0000	1.000000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4109833	.4390295	.4608254	165.4789	-.119795	475.8541	.4099325
SDev	.0011403	.0023233	.0016917	.6454	.088741	2.1818	.0021742
%RSD	.2774473	.5291906	.3670909	.3900137	74.07784	.4584988	.5303872

#1	.4101770	.4373867	.4596292	165.0225	-.057045	474.3113	.4083951
#2	.4117896	.4406723	.4620215	165.9352	-.182544	477.3968	.4114699

Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	.5000000	.5000000	.5000000	200.0000		500.0000	.5000000
Range	20.00000	20.00000	20.00000	20.00000		20.00000	20.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.8469914	Q.7974650	.8600701	.9580003	1.124596	.8405505	.4344884
SDev	.0064836	.0002112	.0103518	.0142419	.012750	.0270328	.0024764
%RSD	.7654881	.0264889	1.203596	1.486626	1.133742	3.216085	.5699531

#1	.8424068	Q.7976143	.8673899	.9680708	1.115580	.8214354	.4327374
#2	.8515760	Q.7973156	.8527503	.9479297	1.133612	.8596656	.4362395

Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	.5000000
Range	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000	20.00000

Elem	Zn2138
Units	ppm
Avge	.8839595
SDev	.0004283
%RSD	.0484520

#1	.8836567
#2	.8842624

Errors	QC Pass
value	1.000000
Range	20.00000



Method: METALS Sample Name: ccb3

Operator: EAJ

Run Time: 07/16/01 01:07:31

Content:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.001796	L-.030241	L-.006971	L-.000198	L-.000106	L.0171835	L-.003945
SDev	.004020	.002060	.005798	.000840	.000001	.0081004	.000338
%RSD	223.8428	6.813048	83.17107	424.2641	.5595440	47.14045	8.572894

#1	L.0010468	L-.028784	L-.011071	L.0003962	L-.000106	L.0114557	L-.003706
#2	L-.004639	L-.031698	L-.002871	L-.000792	L-.000106	L.0229114	L-.004184

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	800.0000	100.0000	80.00000	10.00000	600.0000	100.0000
Low	.0200000	.2000000	.1000000	.0500000	.0100000	.2000000	.0100000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.0009148	L-.005566	L-.001794	L-.003845	L-.022818	L-.004051	L.0000001
SDev	.0008607	.003227	.002960	.000205	.112943	.005737	.0012797
%RSD	94.08806	57.96858	164.9916	5.336473	494.9736	141.6416	1056179.

#1	L.0003062	L-.003284	L.0002990	L-.003990	L-.102681	L.0000063	L.0009050
#2	L.0015233	L-.007847	L-.003888	L-.003700	L.0570450	L-.008108	L-.000905

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.0000	200.0000	100.0000	350.0000	200.0000	800.0000	100.0000
Low	.0100000	.0150000	.0150000	.0500000	.2000000	.1000000	.0200000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.146132	L.0050017	L-.013885	L.0024898	L-.034660	L-.014842	L.0005225
SDev	.010536	.0033346	.003734	.0046664	.012021	.000794	.0003516
%RSD	7.209715	66.67024	26.89210	187.4238	34.68204	5.352162	67.29324

#1	L-.138682	L.0026437	L-.011245	L.0057894	L-.043159	L-.015404	L.0007711
#2	L-.153582	L.0073596	L-.016526	L-.000810	L-.026160	L-.014280	L.0002739

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	600.0000	100.0000	500.0000	100.0000	100.0000	100.0000	100.0000
Low	.2000000	.0500000	.1000000	.1000000	.1000000	.2000000	.0100000

Elem	Zn2138
Units	ppm
Avge	L-.001777
SDev	.000006
%RSD	.3424331

#1	L-.001773
#2	L-.001782

Errors	LC Low
High	100.0000
Low	.0300000



Method: METALS Sample Name: ccv3  
 Run Time: 07/16/01 01:13:13  
 Comment:  
 Mode: CONC Corr. Factor: 1

Operator: EAJ

Elem	Ag3280	Al3082	As1936	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.971778	1.982145	1.884648	1.941759	1.922869	1.963833	1.920648
SDev	.015667	.017125	.005442	.015128	.010920	.004629	.012596
%RSD	.7945703	.8639810	.2887275	.7791015	.5678926	.2357034	.6558425

#1	1.982857	1.994255	1.880800	1.952456	1.930590	1.967106	1.929555
#2	1.960700	1.970036	1.888495	1.931062	1.915147	1.960560	1.911741

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.861226	1.884547	1.883672	1.842636	20.17684	1.860273	1.886596
SDev	.004136	.007821	.010150	.007038	.00807	.005652	.007999
%RSD	.2222031	.4150216	.5388352	.3819309	.0399860	.3038070	.4239982

#1	1.864151	1.890077	1.890849	1.847612	20.17113	1.856277	1.892253
#2	1.858302	1.879016	1.876495	1.837660	20.18255	1.864270	1.880940

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	20.00000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Na5889	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.852149	1.805573	1.908617	1.928487	1.914929	1.877220	1.925574
SDev	.001621	.025715	.009493	.017789	.021051	.025411	.007943
%RSD	.0875182	1.424228	.4973620	.9224198	1.099288	1.353643	.4124827

#1	1.853295	1.823756	1.901904	1.915909	1.900044	1.859251	1.931190
#2	1.851003	1.787389	1.915329	1.941066	1.929814	1.895188	1.919957

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000
Range	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000	10.00000

Elem	Zn2138
Units	ppm
Avge	1.864388
SDev	.008669
%RSD	.4649929

#1	1.870518
#2	1.858257

Errors	QC Pass
Value	2.000000
Range	10.00000



GRAPHICS: SIGNAL DISPLAY SUMMARY REPORT

Data Set: july01  
 Data Set Description:  
 Parameter File: setup2  
 Sample ID: 070901\_1226  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 016  
 Blank: Not Subtracted  
 Dilution Factor: 1  
 Number of Repeats: 375  
 Time: 12:27:17 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35

*year for this  
 run is 2001  
 eg 7/10/01*

	Intensity	Std Dev	RSD
Mg 24	1.160E+04	281.7685	2.43
Rh 103	5.048E+04	1008.6632	2.00
Pb 207	1.181E+04	242.4662	2.05
Pb 208	2.916E+04	520.7681	1.79
220.00	56.9654	11.1250	19.53
Tl 205	73.0880	12.8237	17.55

*Y 399219 - 598829*  
*In 428194 - 642292*  
*Bi 374877 - 562315*

GRAPHICS: SIGNAL DISPLAY SUMMARY REPORT

Data Set: july01  
 Data Set Description:  
 Parameter File: intchk-n  
  
 Sample ID: 070901\_1250  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 017  
 Blank: Not Subtracted  
 Dilution Factor: 1  
 Number of Repeats: 250  
 Time: 12:51:35 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35

	Intensity	Std Dev	RSD
Mg 24	1.145E+04	233.8925	2.04
Rh 103	4.933E+04	860.9846	1.75
Pb 208	2.880E+04	459.5853	1.60
\$Ce 140	5.057E+04	844.5685	1.67
CeO 156	0.0229	1.363E-03	5.94
220.00	56.4720	11.0751	19.61

GRAPHICS: SPECTRAL DISPLAY SUMMARY REPORT

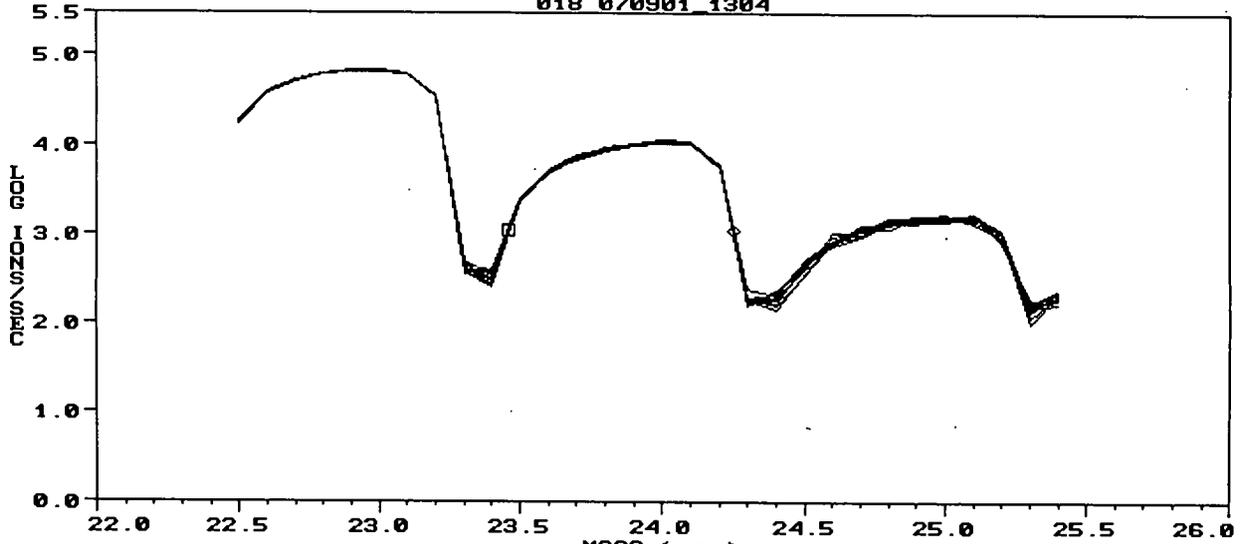
Data Set: july01  
 Data Set Description:  
 Parameter File: LOWRES  
  
 Sample ID: 070901\_1304  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 018  
 Blank: Not Subtracted  
 Dilution Factor: 1  
 Number of Repeats: 10  
 Time: 13:06:18 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Reported Intensities: In Raw Form

Mass	Intensity			Mass	Intensity		
	Intensity	Std Dev	RSD		Intensity	Std Dev	RSD
22.50	17941.3	478.35	2.67	23.50	2407.7	83.72	3.48
22.60	38304.3	769.27	2.01	23.60	5160.9	152.47	2.95
22.70	51588.5	746.06	1.45	23.70	7222.8	334.37	4.63
22.80	60929.7	796.74	1.31	23.80	8923.8	277.78	3.11
22.90	65545.1	1045.29	1.59	23.90	10275.2	270.57	2.63
23.00	66437.6	417.10	0.63	24.00	10939.2	339.73	3.11
23.10	61483.5	524.30	0.85	24.10	10695.0	301.91	2.82
23.20	34360.8	508.66	1.48	24.20	5783.2	156.32	2.70
23.30	405.5	51.72	12.75	24.30	180.5	22.29	12.35
23.40	321.5	50.99	15.86	24.40	189.0	31.43	16.63
24.50	449.5	54.44	12.11	43.50	746.5	73.79	9.88
24.60	842.0	95.52	11.34	43.60	1173.5	77.40	6.60
24.70	1099.5	100.74	9.16	43.70	1526.6	102.04	6.68
24.80	1364.6	114.86	8.42	43.80	1958.1	108.93	5.56
24.90	1496.6	107.25	7.17	43.90	2245.2	94.27	4.20
25.00	1564.6	79.60	5.09	44.00	2525.7	158.13	6.26
25.10	1565.6	115.88	7.40	44.10	2594.2	88.45	3.41
25.20	970.5	83.99	8.65	44.20	1637.1	121.97	7.45
25.30	146.0	24.13	16.53	44.30	108.5	24.27	22.37
25.40	199.0	24.59	12.35	44.40	125.0	21.60	17.28
44.50	159.5	34.68	21.74	45.50	324.0	77.45	23.91
44.60	176.5	36.06	20.43	45.60	547.5	137.77	25.16
44.70	217.0	17.67	8.14	45.70	673.5	190.80	28.33
44.80	259.5	32.36	12.47	45.80	722.5	173.59	24.03
44.90	271.0	46.00	16.97	45.90	968.0	308.40	31.86
45.00	291.0	52.70	18.11	46.00	832.5	233.70	28.07
45.10	316.5	61.06	19.29	46.10	814.5	245.65	30.16
45.20	237.5	34.90	14.70	46.20	524.0	159.60	30.46
45.30	119.5	27.13	22.70	46.30	85.5	23.51	27.49
45.40	147.5	33.52	22.73	46.40	101.0	28.17	27.89

GRAPHICS: SPECTRAL DISPLAY SUMMARY REPORT

Mass	Intensity	Intensity		Mass	Intensity	Intensity	
		Std Dev	RSD			Std Dev	RSD
101.50	65.5	23.27	35.52	102.50	21033.5	491.02	2.33
101.60	63.5	18.27	28.76	102.60	31016.7	980.65	3.16
101.70	63.0	15.31	24.30	102.70	38391.1	1034.10	2.69
101.80	62.0	18.74	30.22	102.80	44790.6	866.75	1.94
101.90	72.5	15.32	21.13	102.90	48819.9	1896.62	3.88
102.00	73.5	29.63	40.32	103.00	49156.0	1489.09	3.03
102.10	123.5	31.10	25.18	103.10	44757.1	1165.71	2.60
102.20	250.5	40.17	16.04	103.20	20192.8	613.78	3.04
102.30	1568.1	144.86	9.24	103.30	552.5	68.20	12.34
102.40	9260.0	372.36	4.02	103.40	75.0	31.62	42.16
103.50	68.5	15.64	22.84	206.50	2016.6	79.63	3.95
103.60	74.5	13.43	18.02	206.60	4710.3	167.98	3.57
103.70	59.0	21.58	36.57	206.70	7918.2	197.61	2.50
103.80	69.5	21.79	31.35	206.80	10617.4	306.77	2.89
103.90	71.0	15.60	21.97	206.90	11757.3	248.05	2.11
104.00	48.0	12.29	25.61	207.00	11596.2	409.25	3.53
104.10	56.0	16.47	29.40	207.10	9907.4	351.57	3.55
104.20	71.5	17.65	24.68	207.20	4829.8	179.65	3.72
104.30	65.0	15.28	23.50	207.30	1217.6	65.63	5.39
104.40	63.0	23.00	36.50	207.40	924.0	91.62	9.92
207.50	4869.8	236.79	4.86	208.50	65.5	22.54	34.41
207.60	11381.5	454.57	3.99	208.60	66.5	22.49	33.82
207.70	19109.3	512.18	2.68	208.70	65.5	19.92	30.42
207.80	25379.5	586.99	2.31	208.80	71.0	23.78	33.50
207.90	29078.6	495.80	1.71	208.90	66.0	22.58	34.22
208.00	28600.6	470.84	1.65	209.00	69.0	21.19	30.71
208.10	24152.4	776.75	3.22	209.10	63.0	16.53	26.24
208.20	11695.8	284.61	2.43	209.20	66.0	16.12	24.43
208.30	2707.8	112.94	4.17	209.30	63.0	20.58	32.66
208.40	164.5	23.86	14.50	209.40	58.5	15.47	26.44

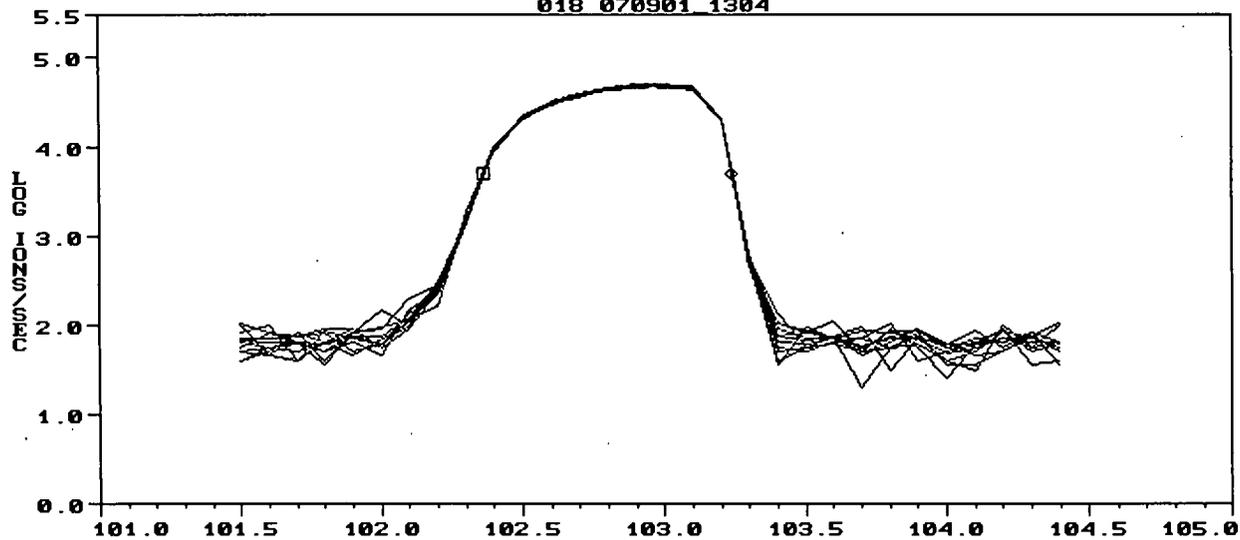
018 070901 1304



CURRENT INTENSITY: 10939.2  
CURRENT MASS: 24.000  
CURSOR STEP SIZE: MEASURED MASS  
Peak Width = 24.248 - 23.461 = 0.787

MASS (amu)  
(N) Next Replicate (X) Exit Graphics  
(A) All Replicates (M) Mark Mass  
(C) Clear Prev. Reps (S) Cursor Step Size  
(H) Hardcopy Screen (W) Peak Width Average

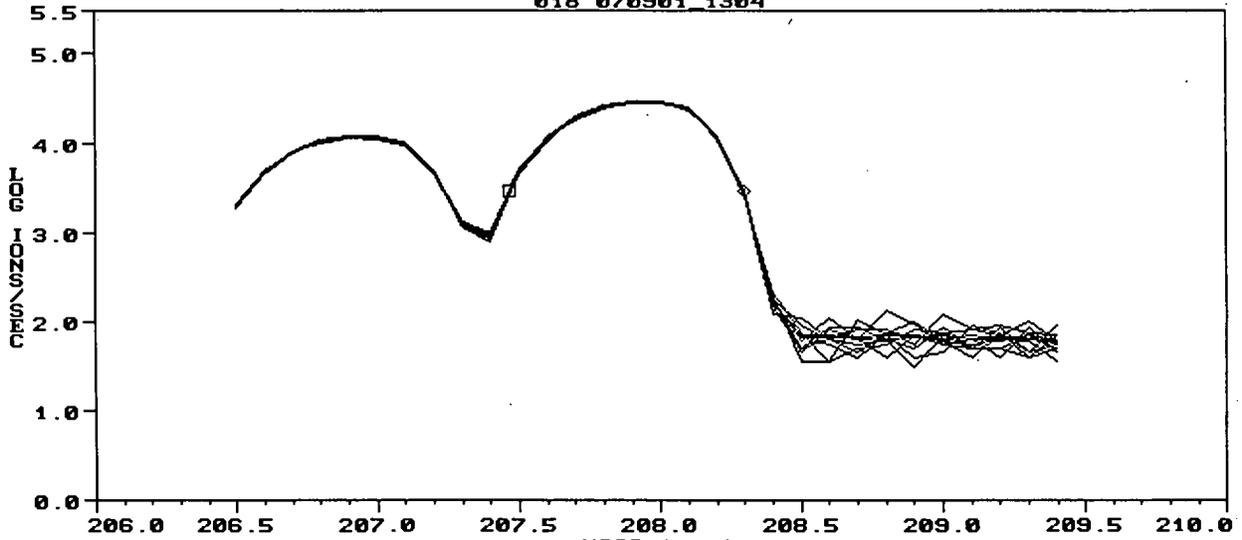
018 070901 1304



CURRENT INTENSITY: 49156.0  
CURRENT MASS: 103.000  
CURSOR STEP SIZE: MEASURED MASS  
Peak Width = 103.239 - 102.364 = 0.875

MASS (amu)  
(N) Next Replicate (X) Exit Graphics  
(A) All Replicates (M) Mark Mass  
(C) Clear Prev. Reps (S) Cursor Step Size  
(H) Hardcopy Screen (W) Peak Width  
Average

018 070901\_1304



CURRENT INTENSITY: 29078.6  
CURRENT MASS: 207.900  
CURSOR STEP SIZE: MEASURED MASS  
Peak Width = 208.295 - 207.469 =

(N) Next Replicate  
(A) All Replicates  
(C) Clear Prev. Reps  
(H) Hardcopy Screen  
0.826

(X) Exit Graphics  
(M) Mark Mass  
(S) Cursor Step Size  
(W) Peak Width  
Average

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: cal blank  
 Sample Description:  
 Sample Type: Blank  
 Sequence Number: 005  
 Blank: Not Subtracted  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 13:36:36 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	927677	1.674E+04		
As 75	107	12.7011		
Y 89	499024	2062.8535		
Cd 111	76	5.9609		
In 115	535243	1.015E+04		
Pb 208	586	11.6096		
Bi 209	468596	3392.8525		

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	927677	1.674E+04			
As 75	2.138E-04	2.545E-05			
Y 89	499024	2062.8535			ions/sec
Cd 111	1.414E-04	1.114E-05			
In 115	535243	1.015E+04			ions/sec
Pb 208	1.251E-03	2.478E-05			
Bi 209	468596	3392.8525			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: blank  
 Sample Description:  
 Sample Type: Standard  
 Sequence Number: 006  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 13:40:17 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	931350	1.731E+04	927677	1.674E+04
As 75	82	22.3930	107	12.7011
Y 89	501705	5512.8911	✓ 499024	2062.8535
Cd 111	78	5.7505	76	5.9609
In 115	541198	1.221E+04	✓ 535243	1.015E+04
Pb 208	580	8.9956	586	11.6096
Bi 209	467870	2711.9575	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	3673	2.408E+04			
As 75	⌋ -5.077E-05	5.138E-05			ppb
Y 89	<⌋ 501705	5512.8911			ions/sec
Cd 111	⌋ 2.899E-06	1.539E-05			ppb
In 115	<⌋ 541198	1.221E+04			ions/sec
Pb 208	⌋ -1.031E-05	3.136E-05			ppb
Bi 209	<⌋ 467870	2711.9575			ions/sec

	Entered Conc.
Ar2 80	
As 75	⌋ 0.0000
Y 89	<⌋

QUANTITATIVE ANALYSIS: SUMMARY REPORT

		Entered Conc.
Cd 111	]	0.0000
In 115	<]	
Pb 208	]	0.0000
Bi 209	<]	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: standard1  
 Sample Description:  
 Sample Type: Standard  
 Sequence Number: 007  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 13:43:58 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	931875	1.418E+04	927677	1.674E+04
As 75	465	6.8561	107	12.7011
Y 89	507626	3434.1038	499024	2062.8535
Cd 111	560	3.1549	76	5.9609
In 115	537088	7174.1167	535243	1.015E+04
Pb 208	6176	5.3790	586	11.6096
Bi 209	467322	422.5760	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	4198	2.194E+04			
As 75	7.030E-04	2.881E-05			ppb
Y 89	507626	3434.1038			ions/sec
Cd 111	9.018E-04	1.259E-05			ppb
In 115	537088	7174.1167			ions/sec
Pb 208	0.0120	2.732E-05			ppb
Bi 209	467322	422.5760			ions/sec

	Entered Conc.
Ar2 80	
As 75	1.0000
Y 89	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

		Entered Conc.
Cd 111	]	1.0000
In 115	<]	
Pb 208	]	1.0000
Bi 209	<]	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb

Sample ID: standard2  
 Sample Description:  
 Sample Type: Standard  
 Sequence Number: 008  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 13:47:40 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35

Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	930024	5327.3716	927677	1.674E+04
As 75	3935	89.8436	107	12.7011
Y 89	511466	2472.4587	✓ 499024	2062.8535
Cd 111	4805	55.1905	76	5.9609
In 115	543124	2805.3516	✓ 535243	1.015E+04
Pb 208	57937	510.9457	586	11.6096
Bi 209	472107	6086.8325	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	2347	1.757E+04			
As 75	7.481E-03	1.775E-04	10.0000	0.2357	2.3570
Y 89	511466	2472.4587			ions/sec
Cd 111	8.706E-03	1.022E-04	10.0000	0.1179	1.1789
In 115	543124	2805.3516			ions/sec
Pb 208	0.1215	1.083E-03	10.0000	0.0890	0.8897
Bi 209	472107	6086.8325			ions/sec

**Entered  
Conc.**

Ar2 80

As 75 } 10.0000  
 Y 89 <|

QUANTITATIVE ANALYSIS: SUMMARY REPORT

		Entered Conc.
Cd 111	]	10.0000
In 115	<]	
Pb 208	]	10.0000
Bi 209	<]	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: standard3  
 Sample Description:  
 Sample Type: Standard  
 Sequence Number: 009  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 13:51:23 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	948638	5839.9321	927677	1.674E+04
As 75	38856	81.6240	✓ 107	12.7011
Y 89	502598	4109.2363	✓ 499024	2062.8535
Cd 111	46000	409.2697	✓ 76	5.9609
In 115	538607	3734.7588	✓ 535243	1.015E+04
Pb 208	558251	5045.2100	✓ 586	11.6096
Bi 209	465063	950.8065	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	20960	1.773E+04			
As 75	↵ 0.0771	1.644E-04	101.0855	0.2154 ppb	0.2131
Y 89	<↵ 502598	4109.2363		ions/sec	
Cd 111	↵ 0.0853	7.599E-04	99.2225	0.8848 ppb	0.8917
In 115	<↵ 538607	3734.7588		ions/sec	
Pb 208	↵ 1.1991	0.0108	99.3513	0.8988 ppb	0.9046
Bi 209	<↵ 465063	950.8065		ions/sec	

	Entered Conc.
Ar2 80	
As 75	↵ 100.0000
Y 89	<↵

QUANTITATIVE ANALYSIS: SUMMARY REPORT

		Entered Conc.
Cd 111	]	100.0000
In 115	<]	
Pb 208	]	100.0000
Bi 209	<]	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: memory rinse  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 010  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 13:55:04 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	919567	1.268E+04	927677	1.674E+04
As 75	139	31.0994	107	12.7011
Y 89	85	12.9253	499024	2062.8535
Cd 111	73	10.3329	76	5.9609
In 115	182	23.6976	535243	1.015E+04
Pb 208	224	55.6518	586	11.6096
Bi 209	500	143.7102	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-8110	2.100E+04			
As 75	1.6311	0.3653	2137.0198	478.6223	22.3967
Y 89	85	12.9253			ions/sec
Cd 111	0.4020	0.0568	467.9879	66.0944	14.1231
In 115	182	23.6976			ions/sec
Pb 208	0.4476	0.1114	37.0868	9.2257	24.8758
Bi 209	500	143.7102			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: cal blank  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 011  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 13:58:43 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	936455	3306.7859	927677	1.674E+04
As 75	82	25.0152	107	12.7011
Y 89	500230	6039.0156	✓ 499024	2062.8535
Cd 111	75	8.2043	76	5.9609
In 115	537953	2468.8313	✓ 535243	1.015E+04
Pb 208	571	38.0551	586	11.6096
Bi 209	464131	3744.8042	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Ar2 80	8778	1.707E+04				
As 75	↗ -4.947E-05	5.611E-05	0.0152	0.0735	ppb	482.1722
Y 89	↙ 500230	6039.0156			ions/sec	
Cd 111	↗ -1.766E-06	1.888E-05	0.0000	n/a	ppb	n/a
In 115	↙ 537953	2468.8313			ions/sec	
Pb 208	↗ -2.062E-05	8.565E-05	6.358E-03	7.096E-03	ppb	111.6072
Bi 209	↙ 464131	3744.8042			ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: crdl  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 012  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 14:02:24 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35

Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	931011	5584.9028	927677	1.674E+04
As 75	458	19.2887	107	12.7011
Y 89	507153	7446.0288	✓ 499024	2062.8535
Cd 111	538	40.8144	76	5.9609
In 115	533767	7666.7788	✓ 535243	1.015E+04
Pb 208	6063	74.8306	586	11.6096
Bi 209	461110	1475.7643	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	3334	1.765E+04			
As 75	6.899E-04	4.576E-05	0.9839	0.0600 ppb	6.0939
Y 89	<J 507153	7446.0288		ions/sec	
Cd 111	8.673E-04	7.727E-05	0.9591	0.0900 ppb	9.3799
In 115	<J 533767	7666.7788		ions/sec	
Pb 208	0.0119	1.642E-04	0.9937	0.0136 ppb	1.3686
Bi 209	<J 461110	1475.7643		ions/sec	

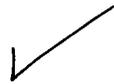


QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: mrcc  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 013  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 14:06:06 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	934689	1.110E+04	927677	1.674E+04
As 75	3923	128.0273	✓ 107	12.7011
Y 89	505205	1.133E+04	✓ 499024	2062.8535
Cd 111	4731	153.8975	✓ 76	5.9609
In 115	540629	7325.0835	✓ 535243	1.015E+04
Pb 208	57081	809.5980	✓ 586	11.6096
Bi 209	466998	6676.0073	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	7012	2.009E+04			
As 75	7.552E-03	2.547E-04	9.9746	0.3337 ppb	3.3453
Y 89	<J 505205	1.133E+04		ions/sec	
Cd 111	8.610E-03	2.849E-04	9.9742	0.3317 ppb	3.3255
In 115	<J 540629	7325.0835		ions/sec	
Pb 208	0.1210	1.734E-03	10.0307	0.1436 ppb	1.4320
Bi 209	<J 466998	6676.0073		ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: icv  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 014  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 14:09:51 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	941579	1.751E+04	927677	1.674E+04
As 75	3952	128.7812	107	12.7011
Y 89	509495	1.234E+04	499024	2062.8535
Cd 111	4724	117.6605	76	5.9609
In 115	542891	7688.5000	535243	1.015E+04
Pb 208	56770	473.4204	586	11.6096
Bi 209	465016	2903.5947	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	13902	2.423E+04			
As 75	7.543E-03	2.540E-04	9.9623	0.3328	3.3409
Y 89	509495	1.234E+04			ions/sec
Cd 111	8.561E-03	2.170E-04	9.9165	0.2527	2.5480
In 115	542891	7688.5000			ions/sec
Pb 208	0.1208	1.018E-03	10.0184	0.0844	0.8421
Bi 209	465016	2903.5947			ions/sec



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: lcs  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 015  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 14:13:37 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	937441	2.215E+04	927677	1.674E+04
As 75	7734	160.6114	107	12.7011
Y 89	495969	6310.8633	499024	2062.8535
Cd 111	9127	174.0795	76	5.9609
In 115	531206	1.235E+04	535243	1.015E+04
Pb 208	112074	1560.0522	586	11.6096
Bi 209	462290	7122.4907	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	9764	2.777E+04			
As 75	0.0154	3.248E-04	20.2288	0.4256 ppb	2.1038
Y 89	495969	6310.8633		ions/sec	
Cd 111	0.0170	3.279E-04	19.7892	0.3818 ppb	1.9292
In 115	531206	1.235E+04		ions/sec	
Pb 208	0.2412	3.375E-03	19.9891	0.2796 ppb	1.3987
Bi 209	462290	7122.4907		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: ics  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 016  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 14:17:22 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	954743	2188.1482	927677	1.674E+04
As 75	38933	485.3618	107	12.7011
Y 89	499146	3987.2283	✓ 499024	2062.8535
Cd 111	45579	737.1522	76	5.9609
In 115	537780	4070.1570	✓ 535243	1.015E+04
Pb 208	547144	6462.0918	586	11.6096
Bi 209	465272	3499.0503	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	27066	1.689E+04			
As 75	0.0778	9.727E-04	101.9892	1.2744	1.2495
Y 89	<] 499146	3987.2283			ions/sec
Cd 111	0.0846	1.371E-03	98.4631	1.5960	1.6209
In 115	<] 537780	4070.1570			ions/sec
Pb 208	1.1747	0.0139	97.3291	1.1506	1.1822
Bi 209	<] 465272	3499.0503			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: cal blank  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 017  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 14:21:05 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	939552	1.027E+04	927677	1.674E+04
As 75	179	39.5553	✓ 107	12.7011
Y 89	506820	9571.7598	✓ 499024	2062.8535
Cd 111	71	7.2778	✓ 76	5.9609
In 115	540929	4453.1777	✓ 535243	1.015E+04
Pb 208	598	25.3204	✓ 586	11.6096
Bi 209	463093	1591.8875	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Ar2 80	11875	1.964E+04				
As 75	1.402E-04	8.209E-05	0.2638	0.1076	ppb	40.7746
Y 89	<J 506820	9571.7598			ions/sec	
Cd 111	1.055E-05	1.747E-05	0.0000	n/a	ppb	n/a
In 115	<J 540929	4453.1777			ions/sec	
Pb 208	4.004E-05	6.003E-05	0.0114	4.973E-03	ppb	43.6883
Bi 209	<J 463093	1591.8875			ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: mrccs  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 018  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 14:24:47 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	933936	1.138E+04	927677	1.674E+04
As 75	3923	104.4800	107	12.7011
Y 89	506850	1.009E+04	499024	2062.8535
Cd 111	4666	9.0528	76	5.9609
In 115	534709	7700.4189	535243	1.015E+04
Pb 208	56416	215.1556	586	11.6096
Bi 209	461314	2723.5010	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	6259	2.025E+04			
As 75	7.526E-03	2.077E-04	9.9402	0.2721	2.7375
Y 89	506850	1.009E+04			ions/sec
Cd 111	8.586E-03	2.026E-05	9.9454	0.0236	0.2372
In 115	534709	7700.4189			ions/sec
Pb 208	0.1210	4.671E-04	10.0360	0.0387	0.3855
Bi 209	461314	2723.5010			ions/sec

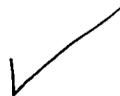


QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: ccv  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 019  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 14:28:32 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	940208	2496.4541	927677	1.674E+04
As 75	19328	149.5045	107	12.7011
Y 89	506563	3296.8774	✓ 499024	2062.8535
Cd 111	23189	396.4316	76	5.9609
In 115	533913	3670.1733	✓ 535243	1.015E+04
Pb 208	274979	1069.5212	586	11.6096
Bi 209	456103	1709.3445	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	12531	1.693E+04			
As 75	0.0379	2.962E-04	49.7882	0.3881 ppb	0.7795
Y 89	<J 506563	3296.8774		ions/sec	
Cd 111	0.0433	7.426E-04	50.3521	0.8646 ppb	1.7171
In 115	<J 533913	3670.1733		ions/sec	
Pb 208	0.6016	2.345E-03	49.8515	0.1943 ppb	0.3897
Bi 209	<J 456103	1709.3445		ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: 7-5 blk  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 020  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 14:32:16 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	937275	5782.8110	927677	1.674E+04
As 75	150	20.6314	✓ 107	12.7011
Y 89	493849	4713.7817	✓ 499024	2062.8535
Cd 111	63	5.3082	✓ 76	5.9609
In 115	529745	3366.1289	✓ 535243	1.015E+04
Pb 208	539	10.7886	✓ 586	11.6096
Bi 209	449524	1777.6688	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	9598	1.771E+04			
As 75	7 9.037E-05	4.892E-05	3.9690	1.2818 ppb	32.2956
Y 89	<7 493849	4713.7817		ions/sec	
Cd 111	7 -2.240E-05	1.498E-05	0.0000	n/a ppb	n/a
In 115	<7 529745	3366.1289		ions/sec	
Pb 208	7 -5.140E-05	3.449E-05	0.0762	0.0572 ppb	75.0445
Bi 209	<7 449524	1777.6688		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: 7-5 blk 2  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 021  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 14:35:57 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	940287	1.232E+04	927677	1.674E+04
As 75	101	26.2048	✓ 107	12.7011
Y 89	500065	4554.8037	✓ 499024	2062.8535
Cd 111	72	7.3822	✓ 76	5.9609
In 115	531290	6214.9658	✓ 535243	1.015E+04
Pb 208	1137	19.1198	✓ 586	11.6096
Bi 209	453007	4924.5527	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Ar2 80	12610	2.079E+04				
As 75	↗ -1.246E-05	5.826E-05	1.2747	1.5265	ppb	119.7481
Y 89	↙ 500065	4554.8037			ions/sec	
Cd 111	↗ -5.278E-06	1.781E-05	0.0000	n/a	ppb	n/a
In 115	↙ 531290	6214.9658			ions/sec	
Pb 208	↗ 1.260E-03	4.894E-05	2.2489	0.0811	ppb	3.6058
Bi 209	↙ 453007	4924.5527			ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: 7-5 blkspk  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 022  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 14:39:38 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	947822	3932.3484	927677	1.674E+04
As 75	18567	497.1756	107	12.7011
Y 89	503998	9488.5703	499024	2062.8535
Cd 111	22451	718.8765	76	5.9609
In 115	531777	4465.8135	535243	1.015E+04
Pb 208	265767	4147.0825	586	11.6096
Bi 209	450896	5466.7979	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	20145	1.720E+04			
As 75	0.0366	9.868E-04	961.3129	25.8566	2.6897
Y 89	503998	9488.5703			ions/sec
Cd 111	0.0421	1.352E-03	978.7794	31.4799	3.2162
In 115	531777	4465.8135			ions/sec
Pb 208	0.5882	9.197E-03	974.7155	15.2395	1.5635
Bi 209	450896	5466.7979			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: 7-5 blkspk 2  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 023  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 14:43:19 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	948760	1.014E+04	927677	1.674E+04
As 75	19279	131.7933	107	12.7011
Y 89	508588	1251.6738	499024	2062.8535
Cd 111	22619	421.3254	76	5.9609
In 115	540807	9687.1865	535243	1.015E+04
Pb 208	269304	312.8289	586	11.6096
Bi 209	456240	2685.9470	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	21083	1.957E+04			
As 75	0.0377	2.604E-04	989.2769	6.8227 ppb	0.6897
Y 89	508588	1251.6738		ions/sec	
Cd 111	0.0417	7.791E-04	969.6191	18.1432 ppb	1.8712
In 115	540807	9687.1865		ions/sec	
Pb 208	0.5890	6.861E-04	976.1190	1.1368 ppb	0.1165
Bi 209	456240	2685.9470		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: 7-5 lcs  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 024  
 Blank: Subtracted (005)  
 Dilution Factor: 100  
 Number of Repeats: 3  
 Time: 14:47:01 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	940913	3658.5605	927677	1.674E+04
As 75	6654	114.4245	107	12.7011
Y 89	509284	6924.2490	499024	2062.8535
Cd 111	28191	416.1695	76	5.9609
In 115	527138	1355.7552	535243	1.015E+04
Pb 208	372680	4165.6528	586	11.6096
Bi 209	442320	3287.8621	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	13236	1.714E+04			
As 75	0.0129	2.261E-04	1691.6439	29.6240	1.7512
Y 89	509284	6924.2490		ions/sec	
Cd 111	0.0533	7.896E-04	6205.1069	91.9291	1.4815
In 115	527138	1355.7552		ions/sec	
Pb 208	0.8413	9.418E-03	6970.7251	78.0227	1.1193
Bi 209	442320	3287.8621		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: 7-5 lcs 2  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 025  
 Blank: Subtracted (005)  
 Dilution Factor: 100  
 Number of Repeats: 3  
 Time: 14:50:44 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	934509	1.153E+04	927677	1.674E+04
As 75	7123	130.7513	107	12.7011
Y 89	516348	5653.6206	✓ 499024	2062.8535
Cd 111	29361	747.8371	✓ 76	5.9609
In 115	524264	6168.7329	✓ 535243	1.015E+04
Pb 208	386273	1491.6565	✓ 586	11.6096
Bi 209	445144	2870.8867	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	6832	2.033E+04			
As 75	0.0136	2.545E-04	1787.2233	33.3428	1.8656
Y 89	516348	5653.6206			ions/sec
Cd 111	0.0559	1.426E-03	6499.0859	166.0866	2.5555
In 115	524264	6168.7329			ions/sec
Pb 208	0.8665	3.351E-03	7179.4219	27.7622	0.3867
Bi 209	445144	2870.8867			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: clf0263-01  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 026  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 14:54:27 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	933804	2035.9816	927677	1.674E+04
As 75	432	18.1872	107	12.7011
Y 89	> 3000000	0.0000	↑ 499024	2062.8535
Cd 111	40318	354.6507	76	5.9609
In 115	513496	4525.6104	✓ 535243	1.015E+04
Pb 208	94233	232.5899	586	11.6096
Bi 209	434472	293.0997	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	6127	1.687E+04			
As 75	⌋ -6.990E-05	2.616E-05	0.0000	n/a	ppb n/a
Y 89	<⌋ 3000000	0.0000			ions/sec
Cd 111	⌋ 0.0784	6.907E-04	1824.0339	16.0848	ppb 0.8818
In 115	<⌋ 513496	4525.6104			ions/sec
Pb 208	⌋ 0.2156	5.359E-04	357.4597	0.8880	ppb 0.2484
Bi 209	<⌋ 434472	293.0997			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: clf0263-01s  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 027  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 14:58:06 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	939838	4904.4731	927677	1.674E+04
As 75	17212	146.2992	107	12.7011
Y 89	> 3000000	0.0000	↑ 499024	2062.8535
Cd 111	59357	576.4844	76	5.9609
In 115	515406	2737.7766	✓ 535243	1.015E+04
Pb 208	312829	1674.2375	✓ 586	11.6096
Bi 209	432085	3306.4060	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	12161	1.745E+04			
As 75	5.523E-03	5.501E-05	146.3309	1.4414 ppb	0.9850
Y 89	<↓ 3000000	0.0000		ions/sec	
Cd 111	0.1150	1.119E-03	2677.4189	26.0468 ppb	0.9728
In 115	<↓ 515406	2737.7766		ions/sec	
Pb 208	0.7227	3.875E-03	1197.7046	6.4204 ppb	0.5361
Bi 209	<↓ 432085	3306.4060		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: clf0263-01sd  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 028  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 15:01:46 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	937669	4457.3657	927677	1.674E+04
As 75	17555	20.4294	107	12.7011
Y 89	> 3000000	0.0000	↑ 499024	2062.8535
Cd 111	71990	202.5755	76	5.9609
In 115	516466	974.6268	✓ 535243	1.015E+04
Pb 208	346179	1257.4648	586	11.6096
Bi 209	432405	2106.4885	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	9992	1.733E+04			
As 75	⌋ 5.638E-03	2.635E-05	149.3300	0.6904 ppb	0.4623
Y 89	<⌋ 3000000	0.0000		ions/sec	
Cd 111	⌋ 0.1392	3.924E-04	3241.5232	9.1372 ppb	0.2819
In 115	<⌋ 516466	974.6268		ions/sec	
Pb 208	⌋ 0.7993	2.908E-03	1324.6096	4.8186 ppb	0.3638
Bi 209	<⌋ 432405	2106.4885		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: clf0263-01ps  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 029  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 15:05:26 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	937785	5316.8477	927677	1.674E+04
As 75	10087	62.7797	107	12.7011
Y 89	> 3000000	0.0000	↑ 499024	2062.8535
Cd 111	52004	269.3701	76	5.9609
In 115	519083	3796.2490	✓ 535243	1.015E+04
Pb 208	220343	955.6097	586	11.6096
Bi 209	430685	608.6269	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	10108	1.757E+04			
As 75	↘ 3.149E-03	3.295E-05	84.1045	0.8634 ppb	1.0266
Y 89	<↘ 3000000	0.0000		ions/sec	
Cd 111	↘ 0.1000	5.191E-04	2328.5869	12.0867 ppb	0.5191
In 115	<↘ 519083	3796.2490		ions/sec	
Pb 208	↘ 0.5104	2.219E-03	845.7919	3.6766 ppb	0.4347
Bi 209	<↘ 430685	608.6269		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: cal blank  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 030  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 15:09:04 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35

Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	940444	9602.9492	927677	1.674E+04
As 75	75	10.3817	107	12.7011
Y 89	503416	1.095E+04	499024	2062.8535
Cd 111	58	6.6418	76	5.9609
In 115	530721	5961.3218	535243	1.015E+04
Pb 208	548	14.0966	586	11.6096
Bi 209	449044	1949.5552	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Ar2 80	12767	1.930E+04				
As 75	-6.443E-05	3.276E-05	0.0000	n/a	ppb	n/a
Y 89	503416	1.095E+04			ions/sec	
Cd 111	-3.227E-05	1.675E-05	0.0000	n/a	ppb	n/a
In 115	530721	5961.3218			ions/sec	
Pb 208	-2.957E-05	3.999E-05	5.616E-03	3.313E-03	ppb	58.9932
Bi 209	449044	1949.5552			ions/sec	

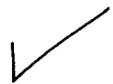


QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: mrccs  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 031  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 15:12:46 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	946897	2.446E+04	927677	1.674E+04
As 75	3904	54.0806	107	12.7011
Y 89	513487	1.114E+04	✓ 499024	2062.8535
Cd 111	4658	85.8693	76	5.9609
In 115	538109	1.480E+04	✓ 535243	1.015E+04
Pb 208	55563	395.0740	586	11.6096
Bi 209	453387	3524.6560	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	19220	2.964E+04			
As 75	7.389E-03	1.084E-04	9.7600	0.1420 ppb	1.4545
Y 89	<J 513487	1.114E+04		ions/sec	
Cd 111	8.514E-03	1.600E-04	9.8622	0.1862 ppb	1.8885
In 115	<J 538109	1.480E+04		ions/sec	
Pb 208	0.1213	8.717E-04	10.0574	0.0722 ppb	0.7181
Bi 209	<J 453387	3524.6560		ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: ccv  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 032  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 15:16:31 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	951655	3.444E+04	927677	1.674E+04
As 75	19370	269.2479	107	12.7011
Y 89	524678	5354.2217	✓ 499024	2062.8535
Cd 111	23909	1158.6705	76	5.9609
In 115	536085	1.598E+04	✓ 535243	1.015E+04
Pb 208	271199	4530.0098	586	11.6096
Bi 209	442118	8125.4731	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	23977	3.829E+04			
As 75	0.0367	5.138E-04	48.1673	0.6731	1.3975
Y 89	524678	5354.2217			ions/sec
Cd 111	0.0445	2.161E-03	51.7108	2.5165	4.8665
In 115	536085	1.598E+04			ions/sec
Pb 208	0.6122	0.0102	50.7231	0.8489	1.6735
Bi 209	442118	8125.4731			ions/sec



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: clf0263-01psd  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 033  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 15:20:17 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	936720	1475.7755	927677	1.674E+04
As 75	9991	137.3319	107	12.7011
Y 89	> 3000000	0.0000	↑ 499024	2062.8535
Cd 111	51570	421.4633	76	5.9609
In 115	513039	2277.3911	✓ 535243	1.015E+04
Pb 208	219684	1251.1228	586	11.6096
Bi 209	429222	2819.2351	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	9042	1.681E+04			
As 75	⌋ 3.117E-03	5.238E-05	83.2650	1.3724 ppb	1.6483
Y 89	<⌋ 3000000	0.0000		ions/sec	
Cd 111	⌋ 0.1004	8.216E-04	2336.3657	19.1312 ppb	0.8188
In 115	<⌋ 513039	2277.3911		ions/sec	
Pb 208	⌋ 0.5106	2.915E-03	846.1352	4.8299 ppb	0.5708
Bi 209	<⌋ 429222	2819.2351		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: clf0263-02  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 034  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 15:23:58 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	932117	2051.4211	927677	1.674E+04
As 75	498	13.2046	107	12.7011
Y 89	> 3000000	0.0000	499024	2062.8535
Cd 111	52054	131.0060	76	5.9609
In 115	511072	1950.5594	✓ 535243	1.015E+04
Pb 208	135228	98.5782	586	11.6096
Bi 209	420621	1382.1141	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	4440	1.687E+04			
As 75	⌋ -4.778E-05	2.583E-05	0.3491	0.6768 ppb	193.8815
Y 89	<⌋ 3000000	0.0000		ions/sec	
Cd 111	⌋ 0.1017	2.566E-04	2367.4377	5.9747 ppb	0.2524
In 115	<⌋ 511072	1950.5594		ions/sec	
Pb 208	⌋ 0.3202	2.357E-04	530.7863	0.3905 ppb	0.0736
Bi 209	<⌋ 420621	1382.1141		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: clf0263-03  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 035  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 15:27:40 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	921901	1887.9491	927677	1.674E+04
As 75	964	37.9330	107	12.7011
Y 89	> 3000000	0.0000	↑ 499024	2062.8535
Cd 111	35796	173.5600	76	5.9609
In 115	509000	596.7827	✓ 535243	1.015E+04
Pb 208	206465	1486.1533	586	11.6096
Bi 209	420890	1511.9673	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-5776	1.685E+04			
As 75	⌋ 1.076E-04	2.842E-05	4.4197	0.7447 ppb	16.8491
Y 89	<⌋ 3000000	0.0000		ions/sec	
Cd 111	⌋ 0.0702	3.412E-04	1633.2878	7.9443 ppb	0.4864
In 115	<⌋ 509000	596.7827		ions/sec	
Pb 208	⌋ 0.4893	3.531E-03	810.8856	5.8507 ppb	0.7215
Bi 209	<⌋ 420890	1511.9673		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdbp  
  
 Sample ID: c1f0263-04  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 036  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 15:31:22 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	949639	4979.3936	927677	1.674E+04
As 75	441	41.8509	107	12.7011
Y 89	> 3000000	0.0000	499024	2062.8535
Cd 111	8038	18.4228	76	5.9609
In 115	523796	2975.5930	✓ 535243	1.015E+04
Pb 208	67205	605.6623	✓ 586'	11.6096
Bi 209	428960	2053.0706	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	21962	1.747E+04			
As 75	⌋ -6.691E-05	2.902E-05	0.0000	n/a	ppb n/a
Y 89	<⌋ 3000000	0.0000			ions/sec
Cd 111	⌋ 0.0152	3.689E-05	353.0264	0.8591	ppb 0.2433
In 115	<⌋ 523796	2975.5930			ions/sec
Pb 208	⌋ 0.1554	1.412E-03	257.6775	2.3398	ppb 0.9080
Bi 209	<⌋ 428960	2053.0706			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: c1f0263-05  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 037  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 15:35:04 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	911351	4686.1387	927677	1.674E+04
As 75	1546	40.7487	107	12.7011
Y 89	> 3000000	0.0000	499024	2062.8535
Cd 111	32718	475.5529	76	5.9609
In 115	494925	1566.8055	✓ 535243	1.015E+04
Pb 208	480687	3342.3875	✓ 586	11.6096
Bi 209	413296	1244.8390	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-16326	1.739E+04			
As 75	⌈ 3.015E-04	2.885E-05	9.5012	0.7559 ppb	7.9562
Y 89	<⌋ 3000000	0.0000		ions/sec	
Cd 111	⌈ 0.0660	9.609E-04	1535.0537	22.3760 ppb	1.4577
In 115	<⌋ 494925	1566.8055		ions/sec	
Pb 208	⌈ 1.1618	8.087E-03	1925.1892	13.3999 ppb	0.6960
Bi 209	<⌋ 413296	1244.8390		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: c1f0263-06  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 038  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 15:38:42 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	885635	1730.6711	927677	1.674E+04
As 75	2167	26.2946	107	12.7011
Y 89	> 3000000	0.0000	↑ 499024	2062.8535
Cd 111	155095	336.2685	76	5.9609
In 115	479329	3134.0869	✓ 535243	1.015E+04
Pb 208	959952	4933.8672	586	11.6096
Bi 209	399576	1477.3030	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-42042	1.683E+04			
As 75	⌈ 5.085E-04	2.692E-05	14.9242	0.7053	ppb 4.7262
Y 89	<⌋ 3000000	0.0000			ions/sec
Cd 111	⌈ 0.3234	7.016E-04	7530.2754	16.3381	ppb 0.2170
In 115	<⌋ 479329	3134.0869			ions/sec
Pb 208	⌈ 2.4012	0.0123	3978.7378	20.4594	ppb 0.5142
Bi 209	<⌋ 399576	1477.3030			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdbp  
  
 Sample ID: clf0263-07  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 039  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 15:42:18 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	887776	3471.7412	927677	1.674E+04
As 75	2262	48.0816	107	12.7011
Y 89	> 3000000	0.0000	↑ 499024	2062.8535
Cd 111	138510	459.6665	76	5.9609
In 115	476244	1850.2585	✓ 535243	1.015E+04
Pb 208	954639	2146.5710	586	11.6096
Bi 209	396837	1060.5034	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-39901	1.710E+04			
As 75	⌋ 5.401E-04	3.008E-05	15.7536	0.7881	ppb 5.0028
Y 89	<⌋ 3000000	0.0000			ions/sec
Cd 111	⌋ 0.2907	9.653E-04	6768.1465	22.4769	ppb 0.3321
In 115	<⌋ 476244	1850.2585			ions/sec
Pb 208	⌋ 2.4044	5.409E-03	3984.0313	8.9628	ppb 0.2250
Bi 209	<⌋ 396837	1060.5034			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: clf0263-08  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 040  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 15:45:54 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	953284	6440.2031	927677	1.674E+04
As 75	1058	28.0773	107	12.7011
Y 89	> 3000000	0.0000	↑ 499024	2062.8535
Cd 111	117888	1204.3376	76	5.9609
In 115	528301	5087.0771	✓ 535243	1.015E+04
Pb 208	347904	1564.7366	586	11.6096
Bi 209	430834	2503.5581	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	25606	1.794E+04			
As 75	1.389E-04	2.712E-05	5.2413	0.7106 ppb	13.5570
Y 89	<J 3000000	0.0000		ions/sec	
Cd 111	0.2230	2.280E-03	5191.8530	53.0843 ppb	1.0225
In 115	<J 528301	5087.0771		ions/sec	
Pb 208	0.8063	3.632E-03	1336.0781	6.0179 ppb	0.4504
Bi 209	<J 430834	2503.5581		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: c1f0263-09  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 041  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 15:49:30 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	957922	2270.0378	927677	1.674E+04
As 75	621	29.7270	107	12.7011
Y 89	1854976	1225.5803	499024	2062.8535
Cd 111	97396	902.7701	76	5.9609
In 115	529547	1906.4331	535243	1.015E+04
Pb 208	406355	1626.6953	586	11.6096
Bi 209	424656	874.2159	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	30245	1.690E+04			
As 75	1.209E-04	3.008E-05	4.7686	0.7881	ppb 16.5269
Y 89	1854976	1225.5803			ions/sec
Cd 111	0.1838	1.705E-03	4278.5264	39.6986	ppb 0.9279
In 115	529547	1906.4331			ions/sec
Pb 208	0.9557	3.831E-03	1583.6104	6.3472	ppb 0.4008
Bi 209	424656	874.2159			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb

Sample ID: clf0263-10  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 042  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 15:53:11 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35

Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	934784	4281.4575	927677	1.674E+04
As 75	1694	3.2619	107	12.7011
Y 89	> 3000000	0.0000	↑ 499024	2062.8535
Cd 111	134575	697.4889	76	5.9609
In 115	507449	2102.0562	✓ 535243	1.015E+04
Pb 208	267935	983.3489	586	11.6096
Bi 209	415279	1636.0022	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	7107	1.728E+04			
As 75	3.509E-04	2.548E-05	10.7952	0.6675 ppb	6.1835
Y 89	<↓ 3000000	0.0000		ions/sec	
Cd 111	0.2651	1.375E-03	6171.0850	32.0076 ppb	0.5187
In 115	<↓ 507449	2102.0562		ions/sec	
Pb 208	0.6439	2.368E-03	1067.1260	3.9237 ppb	0.3677
Bi 209	<↓ 415279	1636.0022		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: cal blank  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 043  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 15:56:48 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	975054	1.223E+04	927677	1.674E+04
As 75	88	15.5396	107	12.7011
Y 89	519688	3449.3823	499024	2062.8535
Cd 111	75	3.2802	76	5.9609
In 115	548417	7839.2656	535243	1.015E+04
Pb 208	561	10.0635	586	11.6096
Bi 209	455387	4827.3887	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	47377	2.074E+04			
As 75	-4.497E-05	3.927E-05	0.0211	0.0514 ppb	243.3676
Y 89	519688	3449.3823		ions/sec	
Cd 111	-5.417E-06	1.264E-05	0.0000	n/a ppb	n/a
In 115	548417	7839.2656		ions/sec	
Pb 208	-1.986E-05	3.320E-05	6.420E-03	2.750E-03 ppb	42.8392
Bi 209	455387	4827.3887		ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: mrcc  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 044  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 16:00:30 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	980488	3.222E+04	927677	1.674E+04
As 75	4064	51.6826	✓ 107	12.7011
Y 89	534890	9175.5518	✓ 499024	2062.8535
Cd 111	4981	273.0084	✓ 76	5.9609
In 115	562207	1.965E+04	✓ 535243	1.015E+04
Pb 208	56120	436.0226	✓ 586	11.6096
Bi 209	458642	9052.6836	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	52811	3.631E+04			
As 75	7.385E-03	9.992E-05	9.7549	0.1309 ppb	1.3420
Y 89	534890	9175.5518		ions/sec	
Cd 111	8.718E-03	4.857E-04	10.1001	0.5655 ppb	5.5993
In 115	562207	1.965E+04		ions/sec	
Pb 208	0.1211	9.510E-04	10.0416	0.0788 ppb	0.7846
Bi 209	458642	9052.6836		ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: ccv  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 045  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 16:04:15 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	984592	1.153E+04	927677	1.674E+04
As 75	19813	247.9406	107	12.7011
Y 89	527397	3914.0063	✓ 499024	2062.8535
Cd 111	23957	704.0369	76	5.9609
In 115	553970	6091.1489	✓ 535243	1.015E+04
Pb 208	272268	1885.6400	586	11.6096
Bi 209	448901	3611.7510	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	56915	2.033E+04			
As 75	0.0374	4.708E-04	49.0193	0.6168 ppb	1.2583
Y 89	<] 527397	3914.0063		ions/sec	
Cd 111	0.0431	1.271E-03	50.1349	1.4798 ppb	2.9515
In 115	<] 553970	6091.1489		ions/sec	
Pb 208	0.6053	4.201E-03	50.1526	0.3480 ppb	0.6939
Bi 209	<] 448901	3611.7510		ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: ics  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 046  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 16:08:46 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	973580	1.205E+04	927677	1.674E+04
As 75	39872	320.9863	107	12.7011
Y 89	523935	4843.9121	✓ 499024	2062.8535
Cd 111	46761	270.5735	76	5.9609
In 115	538747	4078.2124	✓ 535243	1.015E+04
Pb 208	533946	1293.6184	586	11.6096
Bi 209	446970	2802.9150	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	45903	2.063E+04			
As 75	0.0759	6.132E-04	99.5033	0.8033 ppb	0.8073
Y 89	<┘ 523935	4843.9121		ions/sec	
Cd 111	0.0867	5.024E-04	100.8415	0.5849 ppb	0.5800
In 115	<┘ 538747	4078.2124		ions/sec	
Pb 208	1.1933	2.894E-03	98.8720	0.2398 ppb	0.2425
Bi 209	<┘ 446970	2802.9150		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: crdl  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 047  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 16:12:29 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	978881	5366.2954	927677	1.674E+04
As 75	545	46.1153	107	12.7011
Y 89	527582	8612.6113	499024	2062.8535
Cd 111	542	24.4403	76	5.9609
In 115	546586	7541.3613	535243	1.015E+04
Pb 208	5946	40.0002	586	11.6096
Bi 209	450231	3313.9153	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Ar2 80	51204	1.758E+04				
As 75	8.201E-04	9.104E-05	1.1544	0.1193	ppb	10.3317
Y 89	527582	8612.6113			ions/sec	
Cd 111	8.497E-04	4.608E-05	0.9387	0.0537	ppb	5.7157
In 115	546586	7541.3613			ions/sec	
Pb 208	0.0120	9.223E-05	0.9985	7.641E-03	ppb	0.7653
Bi 209	450231	3313.9153			ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: clf0263-11  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 048  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 16:16:10 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	959073	1.592E+04	927677	1.674E+04
As 75	321	11.3811	107	12.7011
Y 89	1521570	6816.3516	499024	2062.8535
Cd 111	34007	582.3026	76	5.9609
In 115	522992	9676.5322	535243	1.015E+04
Pb 208	91402	276.4009	586	11.6096
Bi 209	428527	2546.1985	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	31396	2.310E+04			
As 75	-2.575E-06	2.653E-05	1.5337	0.6951	45.3221
Y 89	1521570	6816.3516			ions/sec
Cd 111	0.0649	1.113E-03	1509.8147	25.9280	1.7173
In 115	522992	9676.5322			ions/sec
Pb 208	0.2120	6.455E-04	351.4997	1.0695	0.3043
Bi 209	428527	2546.1985			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdbp  
  
 Sample ID: clf0263-12  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 049  
 Blank: ~~Subtracted~~ (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 16:19:52 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	941569	2878.2368	927677	1.674E+04
As 75	827	33.6091	107	12.7011
Y 89	> 3000000	0.0000	↑ 499024	2062.8535
Cd 111	115020	1038.0354	76	5.9609
In 115	502336	372.7332	✓ 535243	1.015E+04
Pb 208	263103	1233.3660	586	11.6096
Bi 209	409947	514.4661	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	13892	1.699E+04			
As 75	γ 6.187E-05	2.781E-05	3.2223	0.7287 ppb	22.6129
Y 89	<J 3000000	0.0000		ions/sec	
Cd 111	γ 0.2288	2.066E-03	5327.4619	48.1192 ppb	0.9032
In 115	<J 502336	372.7332		ions/sec	
Pb 208	γ 0.6405	3.009E-03	1061.5018	4.9852 ppb	0.4696
Bi 209	<J 409947	514.4661		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb

Sample ID: clf0263-13  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 050  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 16:23:30 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35

Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	889917	1625.0530	927677	1.674E+04
As 75	4722	73.2084	107	12.7011
Y 89	> 3000000	0.0000	499024	2062.8535
Cd 111	75386	159.4475	76	5.9609
In 115	485762	441.3140	535243	1.015E+04
Pb 208	448491	1335.4017	586	11.6096
Bi 209	401858	1185.3700	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-37760	1.682E+04			
As 75	1.360E-03	3.526E-05	37.2398	0.9239	2.4810
Y 89	< 3000000	0.0000			ions/sec
Cd 111	0.1550	3.284E-04	3609.4619	7.6478	0.2119
In 115	485762	441.3140			ions/sec
Pb 208	1.1148	3.323E-03	1847.2924	5.5062	0.2981
Bi 209	401858	1185.3700			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: c1f0263-15  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 051  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 16:27:08 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	978543	2.295E+04	927677	1.674E+04
As 75	143	10.1316	107	12.7011
Y 89	829231	2466.2551	499024	2062.8535
Cd 111	1680	66.2698	76	5.9609
In 115	530278	1.287E+04	535243	1.015E+04
Pb 208	76023	388.2079	586	11.6096
Bi 209	433127	3803.5413	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	50865	2.841E+04			
As 75	-4.075E-05	2.823E-05	0.5334	0.7398	138.6931
Y 89	829231	2466.2551			ions/sec
Cd 111	3.026E-03	1.255E-04	69.4496	2.9216	4.2068
In 115	530278	1.287E+04			ions/sec
Pb 208	0.1743	8.966E-04	288.9163	1.4857	0.5142
Bi 209	433127	3803.5413			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: clg0003-12  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 052  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 16:30:51 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	978041	2.346E+04	927677	1.674E+04
As 75	4719	135.7922	107	12.7011
Y 89	559947	1.344E+04	499024	2062.8535
Cd 111	116	4.9202	76	5.9609
In 115	539316	1.042E+04	535243	1.015E+04
Pb 208	80270	1388.2679	586	11.6096
Bi 209	439738	7501.7568	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	50364	2.882E+04			
As 75	8.215E-03	2.438E-04	216.8444	6.3893	2.9465
Y 89	559947	1.344E+04			ions/sec
Cd 111	7.452E-05	1.440E-05	0.7214	0.3352	46.4695
In 115	539316	1.042E+04			ions/sec
Pb 208	0.1813	3.157E-03	300.5435	5.2311	1.7406
Bi 209	439738	7501.7568			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: clg0003-12s  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 053  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 16:34:35 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	998668	1.455E+04	927677	1.674E+04
As 75	18761	83.2942	107	12.7011
Y 89	572461	668.7404	✓ 499024	2062.8535
Cd 111	18732	220.7613	76	5.9609
In 115	547587	4485.9453	✓ 535243	1.015E+04
Pb 208	296930	2859.5366	586	11.6096
Bi 209	440748	5085.0034	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	70990	2.218E+04			
As 75	0.0326	1.477E-04	854.7224	3.8704 ppb	0.4528
Y 89	572461	668.7404		ions/sec	
Cd 111	0.0341	4.033E-04	792.2462	9.3914 ppb	1.1854
In 115	547587	4485.9453		ions/sec	
Pb 208	0.6724	6.488E-03	1114.3553	10.7501 ppb	0.9647
Bi 209	440748	5085.0034		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: clg0003-12sd  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 054  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 16:38:21 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	981984	1.046E+04	927677	1.674E+04
As 75	14672	566.3942	107	12.7011
Y 89	569076	2.144E+04	499024	2062.8535
Cd 111	16811	548.2296	76	5.9609
In 115	540927	5388.3491	535243	1.015E+04
Pb 208	251598	4183.8223	586	11.6096
Bi 209	438084	6899.9624	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	54307	1.974E+04			
As 75	0.0256	9.956E-04	671.5461	26.0877	3.8847
Y 89	569076	2.144E+04			ions/sec
Cd 111	0.0309	1.014E-03	719.3966	23.6018	3.2808
In 115	540927	5388.3491			ions/sec
Pb 208	0.5731	9.550E-03	949.6856	15.8242	1.6663
Bi 209	438084	6899.9624			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: c1g0003-12ps  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 055  
 Blank: Subtracted (005)  
 Dilution Factor: 20  
 Number of Repeats: 3  
 Time: 16:42:06 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	975790	2.989E+04	927677	1.674E+04
As 75	14481	263.8163	107	12.7011
Y 89	556453	8854.2559	✓ 499024	2062.8535
Cd 111	11707	407.2235	76	5.9609
In 115	536724	1.607E+04	✓ 535243	1.015E+04
Pb 208	213634	2458.8613	586	11.6096
Bi 209	439511	8660.1816	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	48113	3.426E+04			
As 75	0.0258	4.748E-04	677.9119	12.4407 ppb	1.8351
Y 89	556453	8854.2559		ions/sec	
Cd 111	0.0217	7.588E-04	503.6104	17.6694 ppb	3.5086
In 115	536724	1.607E+04		ions/sec	
Pb 208	0.4848	5.595E-03	803.4751	9.2698 ppb	1.1537
Bi 209	439511	8660.1816		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb

Sample ID: cal blank  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 056  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 16:45:49 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35

Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	980646	1.270E+04	927677	1.674E+04
As 75	114	13.9655	107	12.7011
Y 89	529627	6258.6807	✓ 499024	2062.8535
Cd 111	62	5.5691	76	5.9609
In 115	551517	5103.0527	✓ 535243	1.015E+04
Pb 208	519	31.5364	586	11.6096
Bi 209	458404	7505.7510	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Ar2 80	52969	2.102E+04				
As 75	1.475E-06	3.665E-05	0.0820	0.0480	ppb	58.5597
Y 89	529627	6258.6807			ions/sec	
Cd 111	-2.845E-05	1.503E-05	0.0000	n/a	ppb	n/a
In 115	551517	5103.0527			ions/sec	
Pb 208	-1.177E-04	7.312E-05	0.0000	n/a	ppb	n/a
Bi 209	458404	7505.7510			ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: mrcc  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 057  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 16:49:31 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	988568	1.686E+04	927677	1.674E+04
As 75	4065	149.7280	107	12.7011
Y 89	535385	1.641E+04	✓ 499024	2062.8535
Cd 111	4846	164.9713	76	5.9609
In 115	557717	9799.7393	✓ 535243	1.015E+04
Pb 208	55968	961.7413	586	11.6096
Bi 209	456241	6890.5664	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	60891	2.376E+04			
As 75	7.378E-03	2.808E-04	9.7468	0.3679	ppb 3.7747
Y 89	<] 535385	1.641E+04			ions/sec
Cd 111	8.548E-03	2.960E-04	9.9018	0.3446	ppb 3.4806
In 115	<] 557717	9799.7393			ions/sec
Pb 208	0.1214	2.108E-03	10.0673	0.1746	ppb 1.7348
Bi 209	<] 456241	6890.5664			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: ccv  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 058  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 16:53:15 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	1023128	4.305E+04	927677	1.674E+04
As 75	20051	1079.1847	107	12.7011
Y 89	534391	2.443E+04	✓ 499024	2062.8535
Cd 111	24132	2304.2234	76	5.9609
In 115	572843	2.846E+04	✓ 535243	1.015E+04
Pb 208	277016	8376.1846	586	11.6096
Bi 209	463366	1.644E+04	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	95451	4.619E+04			
As 75	0.0373	2.020E-03	48.9582	2.6460 ppb	5.4046
Y 89	<J 534391	2.443E+04		ions/sec	
Cd 111	0.0420	4.022E-03	48.8335	4.6833 ppb	9.5904
In 115	<J 572843	2.846E+04		ions/sec	
Pb 208	0.5966	0.0181	49.4328	1.4976 ppb	3.0296
Bi 209	<J 463366	1.644E+04		ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: cal blank  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 069  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 17:34:02 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	975126	1.912E+04	927677	1.674E+04
As 75	98	9.7237	107	12.7011
Y 89	523956	1.362E+04	✓ 499024	2062.8535
Cd 111	61	5.8799	76	5.9609
In 115	541366	1.342E+04	✓ 535243	1.015E+04
Pb 208	493	14.8583	586	11.6096
Bi 209	434872	4542.6768	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Ar2 80	47449	2.542E+04				
As 75	] -2.588E-05	3.150E-05	0.0462	0.0413	ppb	89.4221
Y 89	<] 523956	1.362E+04			ions/sec	
Cd 111	] -2.919E-05	1.556E-05	0.0000	n/a	ppb	n/a
In 115	<] 541366	1.342E+04			ions/sec	
Pb 208	] -1.167E-04	4.220E-05	0.0000	n/a	ppb	n/a
Bi 209	<] 434872	4542.6768			ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: mrccs  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 070  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 17:37:44 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	983655	1.915E+04	927677	1.674E+04
As 75	3993	64.2495	107	12.7011
Y 89	537953	5747.5142	✓ 499024	2062.8535
Cd 111	4830	64.1749	76	5.9609
In 115	550690	1.401E+04	✓ 535243	1.015E+04
Pb 208	53670	830.9750	586	11.6096
Bi 209	437243	8905.0449	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	55978	2.544E+04			
As 75	7.208E-03	1.221E-04	9.5234	0.1600 ppb	1.6799
Y 89	537953	5747.5142		ions/sec	
Cd 111	8.629E-03	1.171E-04	9.9959	0.1363 ppb	1.3636
In 115	550690	1.401E+04		ions/sec	
Pb 208	0.1215	1.901E-03	10.0736	0.1575 ppb	1.5631
Bi 209	437243	8905.0449		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: ccv  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 071  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 17:41:29 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	988232	5217.9741	927677	1.674E+04
As 75	20132	244.9731	107	12.7011
Y 89	528432	8308.8506	✓ 499024	2062.8535
Cd 111	23669	163.4976	76	5.9609
In 115	545686	4014.4915	✓ 535243	1.015E+04
Pb 208	264807	1039.6563	586	11.6096
Bi 209	439112	563.9432	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	60555	1.754E+04			
As 75	0.0379	4.643E-04	49.7119	0.6083 ppb	1.2236
Y 89	<] 528432	8308.8506		ions/sec	
Cd 111	0.0432	2.998E-04	50.2852	0.3491 ppb	0.6942
In 115	<] 545686	4014.4915		ions/sec	
Pb 208	0.6018	2.368E-03	49.8651	0.1962 ppb	0.3934
Bi 209	<] 439112	563.9432		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: cal blank  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 078  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 18:07:37 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	969269	1.470E+04	927677	1.674E+04
As 75	4	29.1750	107	12.7011
Y 89	504336	2.170E+04	✓ 499024	2062.8535
Cd 111	51	0.5254	76	5.9609
In 115	544003	4458.1699	✓ 535243	1.015E+04
Pb 208	518	18.2444	586	11.6096
Bi 209	424320	9963.4590	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Ar2 80	41591	2.228E+04				
As 75	]-2.064E-04	6.320E-05	0.0000	n/a	ppb	n/a
Y 89	<]-504336	2.170E+04			ions/sec	
Cd 111	]-4.813E-05	1.118E-05	0.0000	n/a	ppb	n/a
In 115	<]-544003	4458.1699			ions/sec	
Pb 208	]-3.043E-05	4.962E-05	5.545E-03	4.111E-03	ppb	74.1367
Bi 209	<]-424320	9963.4590			ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdbp  
  
 Sample ID: mrccs  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 079  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 18:11:19 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	963312	4.279E+04	927677	1.674E+04
As 75	3767	216.8344	107	12.7011
Y 89	528546	2.886E+04	✓ 499024	2062.8535
Cd 111	4707	209.7318	76	5.9609
In 115	539979	2.568E+04	✓ 535243	1.015E+04
Pb 208	51640	1107.2499	586	11.6096
Bi 209	420690	1.100E+04	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	35635	4.595E+04			
As 75	6.913E-03	4.110E-04	9.1374	0.5385 ppb	5.8935
Y 89	528546	2.886E+04		ions/sec	
Cd 111	8.576E-03	3.886E-04	9.9345	0.4524 ppb	4.5539
In 115	539979	2.568E+04		ions/sec	
Pb 208	0.1215	2.632E-03	10.0740	0.2181 ppb	2.1646
Bi 209	420690	1.100E+04		ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: ccv  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 080  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 18:15:04 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	954940	2.741E+04	927677	1.674E+04
As 75	19212	240.8691	107	12.7011
Y 89	510757	3539.1892	✓ 499024	2062.8535
Cd 111	22861	680.0471	76	5.9609
In 115	525814	1.389E+04	✓ 535243	1.015E+04
Pb 208	253368	3686.5066	586	11.6096
Bi 209	419780	9801.7813	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	27263	3.212E+04			
As 75	0.0374	4.723E-04	49.0810	0.6187 ppb	1.2607
Y 89	<┘ <┘ 510757	3539.1892		ions/sec	
Cd 111	0.0433	1.293E-03	50.4045	1.5059 ppb	2.9876
In 115	<┘ <┘ 525814	1.389E+04		ions/sec	
Pb 208	0.6023	8.782E-03	49.9084	0.7276 ppb	1.4578
Bi 209	<┘ <┘ 419780	9801.7813		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: ics  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 081  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 18:18:50 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	979692	2.665E+04	927677	1.674E+04
As 75	39327	746.4319	107	12.7011
Y 89	528192	7902.5322	✓ 499024	2062.8535
Cd 111	45872	828.0502	76	5.9609
In 115	535976	1.395E+04	✓ 535243	1.015E+04
Pb 208	503183	2549.3833	586	11.6096
Bi 209	424551	3217.1475	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	52015	3.148E+04			
As 75	0.0742	1.413E-03	97.3473	1.8518 ppb	1.9022
Y 89	528192	7902.5322		ions/sec	
Cd 111	0.0854	1.545E-03	99.4332	1.7988 ppb	1.8091
In 115	535976	1.395E+04		ions/sec	
Pb 208	1.1840	6.005E-03	98.0949	0.4975 ppb	0.5071
Bi 209	424551	3217.1475		ions/sec	



**QUANTITATIVE ANALYSIS: SUMMARY REPORT**

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: crdl  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 082  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 18:22:33 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	948587	3707.4600	927677	1.674E+04
As 75	481	34.5474	107	12.7011
Y 89	508032	5799.7207	✓ 499024	2062.8535
Cd 111	512	10.3223	76	5.9609
In 115	530081	4419.3013	✓ 535243	1.015E+04
Pb 208	5617	24.8077	586	11.6096
Bi 209	425055	2106.9390	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	20909	1.715E+04			
As 75	7.339E-04	7.261E-05	1.0416	0.0951 ppb	9.1327
Y 89	508032	5799.7207		ions/sec	
Cd 111	8.250E-04	2.243E-05	0.9098	0.0261 ppb	2.8707
In 115	530081	4419.3013		ions/sec	
Pb 208	0.0120	6.340E-05	0.9991	5.253E-03 ppb	0.5257
Bi 209	425055	2106.9390		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: 7-6 trec blk  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 083  
 Blank: Subtracted (005)  
 Dilution Factor: 5  
 Number of Repeats: 3  
 Time: 18:26:16 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	934603	3.010E+04	927677	1.674E+04
As 75	52	15.5940	✓ 107	12.7011
Y 89	491077	1.136E+04	✓ 499024	2062.8535
Cd 111	70	3.0130	✓ 76	5.9609
In 115	514429	1.273E+04	✓ 535243	1.015E+04
Pb 208	1761	170.9772	✓ 586	11.6096
Bi 209	400352	1.565E+04	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Ar2 80	6926	3.444E+04				
As 75	⌋ -1.083E-04	4.070E-05	0.0000	n/a	ppb	n/a
Y 89	<⌋ 491077	1.136E+04			ions/sec	
Cd 111	⌋ -5.854E-06	1.258E-05	0.0000	n/a	ppb	n/a
In 115	<⌋ 514429	1.273E+04			ions/sec	
Pb 208	⌋ 3.147E-03	4.278E-04	1.3441	0.1772	ppb	13.1839
Bi 209	<⌋ 400352	1.565E+04			ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: 7-6 blkspk  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 084  
 Blank: Subtracted (005)  
 Dilution Factor: 5  
 Number of Repeats: 3  
 Time: 18:30:02 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	893444	1.850E+04	927677	1.674E+04
As 75	1372	58.6221	107	12.7011
Y 89	495248	6722.4956	499024	2062.8535
Cd 111	1841	55.4590	76	5.9609
In 115	497702	4485.0674	535243	1.015E+04
Pb 208	20233	217.6021	586	11.6096
Bi 209	391902	7400.8594	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-34233	2.495E+04			
As 75	2.556E-03	1.211E-04	17.1465	0.7931 ppb	4.6255
Y 89	495248	6722.4956		ions/sec	
Cd 111	3.557E-03	1.120E-04	20.4528	0.6519 ppb	3.1874
In 115	497702	4485.0674		ions/sec	
Pb 208	0.0504	5.558E-04	20.9085	0.2302 ppb	1.1011
Bi 209	391902	7400.8594		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: 7-6 lcs  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 085  
 Blank: Subtracted (005)  
 Dilution Factor: 5  
 Number of Repeats: 3  
 Time: 18:33:44 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	912033	1.227E+04	927677	1.674E+04
As 75	67482	788.8990	107	12.7011
Y 89	479118	5257.8721	499024	2062.8535
Cd 111	81549	2660.5591	76	5.9609
In 115	483257	6851.8950	535243	1.015E+04
Pb 208	889215	1.035E+04	586	11.6096
Bi 209	381663	4177.3320	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-15644	2.076E+04			
As 75	0.1406	1.647E-03	921.6313	10.7874	ppb 1.1705
Y 89	479118	5257.8721			ions/sec
Cd 111	0.1686	5.505E-03	981.2939	32.0501	ppb 3.2661
In 115	483257	6851.8950			ions/sec
Pb 208	2.3286	0.0271	964.6182	11.2330	ppb 1.1645
Bi 209	381663	4177.3320			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: cal blank  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 091  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 18:55:45 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	904771	1.833E+04	927677	1.674E+04
As 75	78	24.8931	107	12.7011
Y 89	491478	6585.5918	499024	2062.8535
Cd 111	51	2.4765	76	5.9609
In 115	510283	8320.6719	535243	1.015E+04
Pb 208	443	47.8656	586	11.6096
Bi 209	401064	7041.8579	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-22906	2.483E+04			
As 75	-5.486E-05	5.668E-05	8.183E-03	0.0743	907.6025
Y 89	491478	6585.5918			ions/sec
Cd 111	-4.141E-05	1.215E-05	0.0000	n/a	ppb
In 115	510283	8320.6719			ions/sec
Pb 208	-1.469E-04	1.219E-04	0.0000	n/a	ppb
Bi 209	401064	7041.8579			ions/sec



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: mrccs  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 092  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 18:59:27 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	968565	5.696E+04	927677	1.674E+04
As 75	3852	253.6990	107	12.7011
Y 89	521776	2.548E+04	499024	2062.8535
Cd 111	4606	642.1794	76	5.9609
In 115	551900	3.570E+04	535243	1.015E+04
Pb 208	50331	2272.3596	586	11.6096
Bi 209	418178	2.434E+04	468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	40888	5.937E+04			
As 75	7.169E-03	4.869E-04	9.4730	0.6379	6.7337
Y 89	521776	2.548E+04			ions/sec
Cd 111	8.205E-03	1.164E-03	9.5019	1.3548	14.2584
In 115	551900	3.570E+04			ions/sec
Pb 208	0.1191	5.434E-03	9.8756	0.4502	4.5586
Bi 209	418178	2.434E+04			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: ccv  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 093  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 19:03:12 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	964553	7.101E+04	927677	1.674E+04
As 75	19273	324.7982	✓ 107	12.7011
Y 89	518534	478.9415	✓ 499024	2062.8535
Cd 111	23196	2380.4707	✓ 76	5.9609
In 115	539549	4.030E+04	✓ 535243	1.015E+04
Pb 208	248131	9220.8184	✓ 586	11.6096
Bi 209	413294	2.237E+04	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	36876	7.296E+04			
As 75	0.0370	6.269E-04	48.4947	0.8213 ppb	1.6936
Y 89	<J 518534	478.9415		ions/sec	
Cd 111	0.0429	4.412E-03	49.8401	5.1369 ppb	10.3067
In 115	<J 539549	4.030E+04		ions/sec	
Pb 208	0.5991	0.0223	49.6433	1.8484 ppb	3.7233
Bi 209	<J 413294	2.237E+04		ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: ics  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 094  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 19:06:58 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	958112	2.719E+04	927677	1.674E+04
As 75	39020	379.1657	107	12.7011
Y 89	527056	6526.5190	✓ 499024	2062.8535
Cd 111	46079	1424.4553	76	5.9609
In 115	530819	1.575E+04	✓ 535243	1.015E+04
Pb 208	489061	6872.2993	586	11.6096
Bi 209	408428	8731.3105	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	30434	3.193E+04			
As 75	0.0738	7.199E-04	96.7953	0.9431 ppb	0.9743
Y 89	527056	6526.5190		ions/sec	
Cd 111	0.0867	2.684E-03	100.8542	3.1244 ppb	3.0980
In 115	530819	1.575E+04		ions/sec	
Pb 208	1.1962	0.0168	99.1064	1.3940 ppb	1.4066
Bi 209	408428	8731.3105		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 070901\_1  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: crdl  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 095  
 Blank: Subtracted (005)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 19:10:41 Jul 9 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	939854	1.353E+04	927677	1.674E+04
As 75	501	20.9308	✓ 107	12.7011
Y 89	513678	6827.0898	✓ 499024	2062.8535
Cd 111	517	26.2305	✓ 76	5.9609
In 115	527138	1.067E+04	✓ 535243	1.015E+04
Pb 208	5477	30.4148	✓ 586	11.6096
Bi 209	414077	2830.5405	✓ 468596	3392.8525

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	12176	2.153E+04			
As 75	7.616E-04	4.804E-05	1.0779	0.0629	ppb 5.8394
Y 89	513678	6827.0898			ions/sec
Cd 111	8.397E-04	5.099E-05	0.9270	0.0594	ppb 6.4043
In 115	527138	1.067E+04			ions/sec
Pb 208	0.0120	7.752E-05	1.0003	6.422E-03	ppb 0.6420
Bi 209	414077	2830.5405			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: cal blank  
 Sample Description:  
 Sample Type: Blank  
 Sequence Number: 001  
 Blank: Not Subtracted  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 17:20:39 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

The year is 2001 MKO

Y	304041	456061
In	303958	455938
Bi	231514	347270

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	735636	3.428E+04		
As 75	63	16.1650		
Y 89	380051	1.090E+04		
Cd 111	35	2.3002		
In 115	379948	1.638E+04		
Pb 208	200	5.9648		
Bi 209	289392	9827.2168		

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	735636	3.428E+04			
As 75	1.661E-04	4.253E-05			
Y 89	380051	1.090E+04			ions/sec
Cd 111	9.261E-05	6.054E-06			
In 115	379948	1.638E+04			ions/sec
Pb 208	6.897E-04	2.061E-05			
Bi 209	289392	9827.2168			ions/sec

**QUANTITATIVE ANALYSIS: SUMMARY REPORT**

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: blank  
 Sample Description:  
 Sample Type: Standard  
 Sequence Number: 002  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 17:24:20 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	715727	3972.3518	735636	3.428E+04
As 75	61	14.0981	63	16.1650
Y 89	361548	4517.4766	380051	1.090E+04
Cd 111	41	2.1833	35	2.3002
In 115	368381	4524.8457	379948	1.638E+04
Pb 208	195	12.1579	200	5.9648
Bi 209	287009	832.1580	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-19909	3.451E+04			
As 75	2.101E-06	5.770E-05			ppb
Y 89	361548	4517.4766			ions/sec
Cd 111	1.801E-05	8.472E-06			ppb
In 115	368381	4524.8457			ions/sec
Pb 208	-1.021E-05	4.711E-05			ppb
Bi 209	287009	832.1580			ions/sec

	Entered Conc.
Ar2 80	
As 75	0.0000
Y 89	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

		Entered Conc.
Cd 111	]	0.0000
In 115	<]	
Pb 208	]	0.0000
Bi 209	<]	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: standard1  
 Sample Description:  
 Sample Type: Standard  
 Sequence Number: 003  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 17:28:01 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	718767	2.197E+04	735636	3.428E+04
As 75	330	22.3740	63	16.1650
Y 89	364529	3117.3896	✓ 380051	1.090E+04
Cd 111	344	13.6535	35	2.3002
In 115	370105	1.163E+04	✓ 379948	1.638E+04
Pb 208	3718	48.2786	200	5.9648
Bi 209	286993	5654.8091	✓ 289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-16870	4.072E+04			
As 75	] 7.399E-04	7.468E-05			ppb
Y 89	<] 364529	3117.3896			ions/sec
Cd 111	] 8.358E-04	3.738E-05			ppb
In 115	<] 370105	1.163E+04			ions/sec
Pb 208	] 0.0123	1.695E-04			ppb
Bi 209	<] 286993	5654.8091			ions/sec

	Entered Conc.
Ar2 80	
As 75	] 1.0000
Y 89	<]

QUANTITATIVE ANALYSIS: SUMMARY REPORT

		Entered Conc.
Cd 111	]	1.0000
In 115	<]	
Pb 208	]	1.0000
Bi 209	<]	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: standard2  
 Sample Description:  
 Sample Type: Standard  
 Sequence Number: 004  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 17:31:43 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	722309	2303.3347	735636	3.428E+04
As 75	2748	64.5027	63	16.1650
Y 89	367458	4616.0977	✓ 380051	1.090E+04
Cd 111	3149	103.1435	35	2.3002
In 115	377138	347.4392	✓ 379948	1.638E+04
Pb 208	35386	286.5291	200	5.9648
Bi 209	295311	3615.2017	✓ 289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-13328	3.436E+04			
As 75	7.312E-03	1.806E-04	10.0000	0.2473	2.4733
Y 89	367458	4616.0977			ions/sec
Cd 111	8.256E-03	2.736E-04	10.0000	0.3318	3.3180
In 115	377138	347.4392			ions/sec
Pb 208	0.1191	9.705E-04	10.0000	0.0817	0.8173
Bi 209	295311	3615.2017			ions/sec

Entered Conc.  
 Ar2 80  
 As 75 10.0000  
 Y 89

QUANTITATIVE ANALYSIS: SUMMARY REPORT

		Entered Conc.
Cd 111	]	10.0000
In 115	<]	
Pb 208	]	10.0000
Bi 209	<]	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: standard3  
 Sample Description:  
 Sample Type: Standard  
 Sequence Number: 005  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 17:35:26 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	729731	1.699E+04	735636	3.428E+04
As 75	27316	831.9644	63	16.1650
Y 89	364054	8171.4155	✓ 380051	1.090E+04
Cd 111	31729	1409.4211	35	2.3002
In 115	376168	1.052E+04	✓ 379948	1.638E+04
Pb 208	347336	6934.6069	200	5.9648
Bi 209	289830	6133.8057	✓ 289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-5905	3.826E+04			
As 75	γ 0.0749	2.286E-03	101.1143	3.0869 ppb	3.0529
Y 89	<γ 364054	8171.4155		ions/sec	
Cd 111	γ 0.0843	3.747E-03	100.9698	4.4901 ppb	4.4470
In 115	<γ 376168	1.052E+04		ions/sec	
Pb 208	γ 1.1977	0.0239	100.3721	2.0056 ppb	1.9982
Bi 209	<γ 289830	6133.8057		ions/sec	

	Entered Conc.
Ar2 80	
As 75	γ 100.0000
Y 89	<γ

QUANTITATIVE ANALYSIS: SUMMARY REPORT

		Entered Conc.
Cd 111	↵	100.0000
In 115	↵	
Pb 208	↵	100.0000
Bi 209	↵	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: memory rinse  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 006  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 17:39:07 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	751561	1531.7308	735636	3.428E+04
As 75	101	34.0724	63	16.1650
Y 89	83	10.0394	380051	1.090E+04
Cd 111	41	8.0771	35	2.3002
In 115	139	15.2423	379948	1.638E+04
Pb 208	143	18.6511	200	5.9648
Bi 209	397	88.8710	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	15925	3.431E+04			
As 75	1.2198	0.4114	1647.3942	555.6187	33.7271
Y 89	83	10.0394			ions/sec
Cd 111	0.2952	0.0583	353.7179	69.8827	19.7566
In 115	139	15.2423			ions/sec
Pb 208	0.3600	0.0470	30.1496	3.9388	13.0643
Bi 209	397	88.8710			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdbp  
  
 Sample ID: cal blank  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 007  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 17:42:46 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	706907	4.244E+04	735636	3.428E+04
As 75	65	10.0985	63	16.1650
Y 89	360817	7483.5400	✓ 380051	1.090E+04
Cd 111	33	4.7296	35	2.3002
In 115	367396	2.510E+04	✓ 379948	1.638E+04
Pb 208	208	10.2116	200	5.9648
Bi 209	288187	1.156E+04	✓ 289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-28729	5.455E+04			
As 75	1.450E-05	5.092E-05	0.0215	0.0688	320.2268
Y 89	360817	7483.5400			ions/sec
Cd 111	-2.679E-06	1.423E-05	0.0000	n/a	ppb
In 115	367396	2.510E+04			ions/sec
Pb 208	3.145E-05	4.099E-05	0.0000	n/a	ppb
Bi 209	288187	1.156E+04			ions/sec



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdbp  
  
 Sample ID: crdl  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 008  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 17:46:27 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	737947	3.305E+04	735636	3.428E+04
As 75	334	5.9574	63	16.1650
Y 89	389089	5145.3647	✓ 380051	1.090E+04
Cd 111	366	15.4514	35	2.3002
In 115	382031	1.493E+04	✓ 379948	1.638E+04
Pb 208	3741	41.8446	200	5.9648
Bi 209	290319	6361.9409	✓ 289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	2311	4.762E+04			
As 75	⌋ 6.936E-04	4.521E-05	0.9386	0.0611 ppb	6.5045
Y 89	<⌋ 389089	5145.3647		ions/sec	
Cd 111	⌋ 8.666E-04	4.090E-05	1.0378	0.0490 ppb	4.7223
In 115	<⌋ 382031	1.493E+04		ions/sec	
Pb 208	⌋ 0.0122	1.456E-04	0.9947	0.0122 ppb	1.2270
Bi 209	<⌋ 290319	6361.9409		ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: mrcc  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 009  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 17:50:09 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	714330	3.429E+04	735636	3.428E+04
As 75	2753	19.5596	63	16.1650
Y 89	374652	1456.6575	380051	1.090E+04
Cd 111	3208	191.5602	35	2.3002
In 115	376974	2.095E+04	379948	1.638E+04
Pb 208	35280	1219.4161	200	5.9648
Bi 209	290844	1.349E+04	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-21307	4.849E+04			
As 75	7.183E-03	6.734E-05	9.7026	0.0909	0.9374
Y 89	374652	1456.6575			ions/sec
Cd 111	8.416E-03	5.082E-04	10.0854	0.6090	6.0385
In 115	376974	2.095E+04			ions/sec
Pb 208	0.1206	4.193E-03	10.0826	0.3515	3.4858
Bi 209	290844	1.349E+04			ions/sec



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: icv  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 010  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 17:53:54 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	735979	4674.5576	735636	3.428E+04
As 75	2806	99.2659	63	16.1650
Y 89	366898	8324.6934	380051	1.090E+04
Cd 111	3245	56.2921	35	2.3002
In 115	382500	2283.3196	379948	1.638E+04
Pb 208	35132	737.7744	200	5.9648
Bi 209	292937	4621.0386	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	343	3.460E+04			
As 75	7.481E-03	2.739E-04	10.1053	0.3699 ppb	3.6603
Y 89	366898	8324.6934		ions/sec	
Cd 111	8.390E-03	1.473E-04	10.0540	0.1765 ppb	1.7557
In 115	382500	2283.3196		ions/sec	
Pb 208	0.1192	2.519E-03	9.9678	0.2111 ppb	2.1181
Bi 209	292937	4621.0386		ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: lcs  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 011  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 17:57:40 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	722717	1.455E+04	735636	3.428E+04
As 75	5520	343.8826	63	16.1650
Y 89	371691	1.891E+04	✓ 380051	1.090E+04
Cd 111	6467	216.6709	35	2.3002
In 115	372493	5841.0464	✓ 379948	1.638E+04
Pb 208	69585	1301.9806	200	5.9648
Bi 209	285883	3211.2039	✓ 289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-12920	3.724E+04			
As 75	0.0147	9.262E-04	19.8362	1.2508 ppb	6.3058
Y 89	<J 371691	1.891E+04		ions/sec	
Cd 111	0.0173	5.817E-04	20.6932	0.6971 ppb	3.3688
In 115	<J 372493	5841.0464		ions/sec	
Pb 208	0.2427	4.554E-03	20.3179	0.3818 ppb	1.8790
Bi 209	<J 285883	3211.2039		ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: ics  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 012  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 18:01:25 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	727759	4.778E+04	735636	3.428E+04
As 75	27309	1653.7323	63	16.1650
Y 89	384814	1.639E+04	✓ 380051	1.090E+04
Cd 111	33169	3571.6272	35	2.3002
In 115	374488	2.125E+04	✓ 379948	1.638E+04
Pb 208	346286	1.402E+04	200	5.9648
Bi 209	283711	1.665E+04	✓ 289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-7877	5.880E+04			
As 75	0.0708	4.298E-03	95.6220	5.8043 ppb	6.0700
Y 89	<J 384814	1.639E+04		ions/sec	
Cd 111	0.0885	9.537E-03	106.0329	11.4295 ppb	10.7792
In 115	<J 374488	2.125E+04		ions/sec	
Pb 208	1.2199	0.0494	102.2286	4.1413 ppb	4.0510
Bi 209	<J 283711	1.665E+04		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: cal blank  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 013  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 18:05:08 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	736670	3.791E+04	735636	3.428E+04
As 75	109	18.2333	63	16.1650
Y 89	364722	4699.6563	✓ 380051	1.090E+04
Cd 111	41	6.2994	35	2.3002
In 115	384426	1.857E+04	✓ 379948	1.638E+04
Pb 208	217	13.7872	200	5.9648
Bi 209	294225	9474.8711	✓ 289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	1034	5.111E+04			
As 75	1.322E-04	6.564E-05	0.1804	0.0886	49.1331
Y 89	364722	4699.6563			ions/sec
Cd 111	1.329E-05	1.747E-05	0.0152	0.0209	137.3219
In 115	384426	1.857E+04			ions/sec
Pb 208	4.813E-05	5.119E-05	0.0000	n/a	ppb
Bi 209	294225	9474.8711			ions/sec



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: mrcc  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 014  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 18:08:50 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	711542	2.519E+04	735636	3.428E+04
As 75	2796	189.7204	63	16.1650
Y 89	380696	1.818E+04	380051	1.090E+04
Cd 111	3305	125.5252	35	2.3002
In 115	374531	1.297E+04	379948	1.638E+04
Pb 208	35163	741.8981	200	5.9648
Bi 209	288833	5329.2866	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-24094	4.254E+04			
As 75	7.178E-03	5.002E-04	9.6960	0.6755 ppb	6.9667
Y 89	380696	1.818E+04		ions/sec	
Cd 111	8.731E-03	3.352E-04	10.4627	0.4017 ppb	3.8395
In 115	374531	1.297E+04		ions/sec	
Pb 208	0.1211	2.569E-03	10.1197	0.2153 ppb	2.1278
Bi 209	288833	5329.2866		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: ccv  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 015  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 18:12:35 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	716855	1.101E+04	735636	3.428E+04
As 75	13609	394.7698	63	16.1650
Y 89	370607	8728.9619	380051	1.090E+04
Cd 111	15968	370.5101	35	2.3002
In 115	377243	3450.6714	379948	1.638E+04
Pb 208	173145	989.4453	200	5.9648
Bi 209	294141	2525.5364	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-18781	3.601E+04			
As 75	0.0366	1.066E-03	49.3728	1.4398	2.9161
Y 89	370607	8728.9619			ions/sec
Cd 111	0.0422	9.822E-04	50.6133	1.1770	2.3255
In 115	377243	3450.6714			ions/sec
Pb 208	0.5880	3.364E-03	49.2579	0.2820	0.5725
Bi 209	294141	2525.5364			ions/sec



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: c1f0263-01  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 016  
 Blank: Subtracted (001)  
 Dilution Factor: 200  
 Number of Repeats: 3  
 Time: 18:16:19 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	709933	4885.4858	735636	3.428E+04
As 75	122	9.8453	63	16.1650
Y 89	797384	1.358E+04	380051	1.090E+04
Cd 111	2837	69.2262	35	2.3002
In 115	361709	2890.1162	379948	1.638E+04
Pb 208	6054	71.3324	200	5.9648
Bi 209	281282	1591.8496	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-25703	3.463E+04			
As 75	-1.277E-05	4.429E-05	0.0000	n/a	n/a
Y 89	797384	1.358E+04			ions/sec
Cd 111	7.752E-03	1.915E-04	1857.7921	45.8941	ppb
In 115	361709	2890.1162			ions/sec
Pb 208	0.0208	2.544E-04	343.7570	4.2656	ppb
Bi 209	281282	1591.8496			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: clf0263-01s  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 017  
 Blank: Subtracted (001)  
 Dilution Factor: 200  
 Number of Repeats: 3  
 Time: 18:20:01 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	710002	2.830E+04	735636	3.428E+04
As 75	1294	57.9678	63	16.1650
Y 89	771505	2.281E+04	380051	1.090E+04
Cd 111	4173	164.8504	35	2.3002
In 115	359755	1.532E+04	379948	1.638E+04
Pb 208	20598	309.7329	200	5.9648
Bi 209	280526	5819.2773	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-25634	4.445E+04			
As 75	1.511E-03	8.634E-05	408.5830	23.3213	5.7079
Y 89	771505	2.281E+04			ions/sec
Cd 111	0.0115	4.583E-04	2758.0471	109.8371	3.9824
In 115	359755	1.532E+04			ions/sec
Pb 208	0.0727	1.104E-03	1213.9036	18.5138	1.5251
Bi 209	280526	5819.2773			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdbp  
 Sample ID: clf0263-01sd  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 018  
 Blank: ~~Subtracted~~ (001)  
 Dilution Factor: 200  
 Number of Repeats: 3  
 Time: 18:23:44 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	698713	4194.7979	735636	3.428E+04
As 75	1288	34.9484	↑ 63	16.1650
Y 89	901203	2.169E+04	↑ 380051	1.090E+04
Cd 111	5016	55.0062	✓ 35	2.3002
In 115	354688	2071.0002	✓ 379948	1.638E+04
Pb 208	22684	139.6528	✓ 200	5.9648
Bi 209	278031	2036.8530	✓ 289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-36923	3.454E+04			
As 75	1.263E-03	5.756E-05	341.5837	15.5473	4.5515
Y 89	901203	2.169E+04			ions/sec
Cd 111	0.0140	1.552E-04	3367.1340	37.1984	1.1047
In 115	354688	2071.0002			ions/sec
Pb 208	0.0809	5.027E-04	1350.7562	8.4280	0.6240
Bi 209	278031	2036.8530			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: clf0263-01ps  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 019  
 Blank: Subtracted (001)  
 Dilution Factor: 200  
 Number of Repeats: 3  
 Time: 18:27:27 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	711857	1.593E+04	735636	3.428E+04
As 75	6584	75.7423	63	16.1650
Y 89	806098	2.012E+04	380051	1.090E+04
Cd 111	10622	104.2741	35	2.3002
In 115	352620	7964.4336	379948	1.638E+04
Pb 208	89387	692.5005	200	5.9648
Bi 209	272766	1962.1729	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-23780	3.780E+04			
As 75	8.001E-03	1.031E-04	2161.6321	27.8594	1.2888
Y 89	806098	2.012E+04			ions/sec
Cd 111	0.0300	2.958E-04	7197.7949	70.8907	0.9849
In 115	352620	7964.4336			ions/sec
Pb 208	0.3270	2.539E-03	5476.8877	42.5647	0.7772
Bi 209	272766	1962.1729			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: clf0263-01psd  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 020  
 Blank: Subtracted (001)  
 Dilution Factor: 200  
 Number of Repeats: 3  
 Time: 18:31:10 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	710067	3.345E+04	735636	3.428E+04
As 75	6770	401.0991	63	16.1650
Y 89	823270	4.422E+04	380051	1.090E+04
Cd 111	10886	619.4111	35	2.3002
In 115	361132	1.649E+04	379948	1.638E+04
Pb 208	91900	3128.9983	200	5.9648
Bi 209	277943	9394.6357	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-25569	4.790E+04			
As 75	8.057E-03	4.891E-04	2176.6509	132.0995	6.0689
Y 89	823270	4.422E+04			ions/sec
Cd 111	0.0301	1.715E-03	7202.2539	411.0967	5.7079
In 115	361132	1.649E+04			ions/sec
Pb 208	0.3300	0.0113	5526.1914	188.7365	3.4153
Bi 209	277943	9394.6357			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: clf0263-02  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 021  
 Blank: Subtracted (001)  
 Dilution Factor: 200  
 Number of Repeats: 3  
 Time: 18:34:54 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	715384	2.709E+04	735636	3.428E+04
As 75	118	18.8698	63	16.1650
Y 89	1425003	2.225E+04	380051	1.090E+04
Cd 111	3781	145.1894	35	2.3002
In 115	361916	1.338E+04	379948	1.638E+04
Pb 208	9173	62.8532	200	5.9648
Bi 209	280569	6761.7334	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-20253	4.369E+04			
As 75	-8.327E-05	4.455E-05	0.0000	n/a	n/a
Y 89	1425003	2.225E+04			
Cd 111	0.0104	4.012E-04	2481.3259	96.1622	3.8754
In 115	361916	1.338E+04			
Pb 208	0.0320	2.250E-04	531.0551	3.7716	0.7102
Bi 209	280569	6761.7334			

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: clf0263-03  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 022  
 Blank: Subtracted (001)  
 Dilution Factor: 200  
 Number of Repeats: 3  
 Time: 18:38:39 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	719101	4.096E+04	735636	3.428E+04
As 75	158	15.7588	63	16.1650
Y 89	2446561	3.199E+04	380051	1.090E+04
Cd 111	2595	145.5517	35	2.3002
In 115	364221	1.879E+04	379948	1.638E+04
Pb 208	13863	403.3708	200	5.9648
Bi 209	280847	1.196E+04	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-16535	5.341E+04			
As 75	-1.017E-04	4.302E-05	0.0000	n/a	ppb
Y 89	2446561	3.199E+04			ions/sec
Cd 111	7.033E-03	3.997E-04	1685.5244	95.7923	ppb
In 115	364221	1.879E+04			ions/sec
Pb 208	0.0487	1.436E-03	810.4625	24.0816	ppb
Bi 209	280847	1.196E+04			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: clf0263-04  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 023  
 Blank: Subtracted (001)  
 Dilution Factor: 200  
 Number of Repeats: 3  
 Time: 18:42:24 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35

Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	701893	3.362E+04	735636	3.428E+04
As 75	110	16.3242	63	16.1650
Y 89	1473029	9.010E+04	380051	1.090E+04
Cd 111	604	46.8957	35	2.3002
In 115	354919	2.100E+04	379948	1.638E+04
Pb 208	4501	56.2668	200	5.9648
Bi 209	272233	5555.7373	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Ar2 80	-33743	4.801E+04				
As 75	-9.122E-05	4.395E-05	0.0000	n/a	ppb	n/a
Y 89	1473029	9.010E+04			ions/sec	
Cd 111	1.609E-03	1.323E-04	385.6100	31.7020	ppb	8.2213
In 115	354919	2.100E+04			ions/sec	
Pb 208	0.0158	2.077E-04	260.1191	3.4823	ppb	1.3387
Bi 209	272233	5555.7373			ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: clf0263-05  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 024  
 Blank: Subtracted (001)  
 Dilution Factor: 200  
 Number of Repeats: 3  
 Time: 18:46:09 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	712805	5015.2695	735636	3.428E+04
As 75	250	25.2498	63	16.1650
Y 89	> 3000000	0.0000	380051	1.090E+04
Cd 111	2463	39.7569	35	2.3002
In 115	362072	3046.4014	379948	1.638E+04
Pb 208	32066	401.5590	200	5.9648
Bi 209	278972	2206.1411	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Ar2 80	-22831	3.465E+04				
As 75	⌋ -8.270E-05	4.336E-05	0.0000	n/a	ppb	n/a
Y 89	<⌋ 3000000	0.0000			ions/sec	
Cd 111	⌋ 6.709E-03	1.100E-04	1607.9689	26.3575	ppb	1.6392
In 115	<⌋ 362072	3046.4014			ions/sec	
Pb 208	⌋ 0.1143	1.440E-03	1909.9233	24.1346	ppb	1.2636
Bi 209	<⌋ 278972	2206.1411			ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: clf0263-06  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 025  
 Blank: ~~Subtracted~~ (001)  
 Dilution Factor: 200  
 Number of Repeats: 3  
 Time: 18:49:51 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	712088	7586.5210	735636	3.428E+04
As 75	295	1.3451	63	16.1650
Y 89	3060724	2.457E+04	380051	1.090E+04
Cd 111	12413	53.4470	35	2.3002
In 115	362164	2285.3979	379948	1.638E+04
Pb 208	66609	908.1173	200	5.9648
Bi 209	273412	3179.9629	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Ar2 80	-23548	3.511E+04				
As 75	-6.985E-05	4.254E-05	0.0000	n/a	ppb	n/a
Y 89	3060724	2.457E+04			ions/sec	
Cd 111	0.0342	1.477E-04	8192.5283	35.4006	ppb	0.4321
In 115	362164	2285.3979			ions/sec	
Pb 208	0.2429	3.321E-03	4067.2100	55.6850	ppb	1.3691
Bi 209	273412	3179.9629			ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb

Sample ID: cal blank  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 026  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 18:53:35 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35

Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	708392	1827.6304	735636	3.428E+04
As 75	56	5.7395	63	16.1650
Y 89	366040	7422.0776 ✓	380051	1.090E+04
Cd 111	39	5.3798	35	2.3002
In 115	367927	1392.1976 ✓	379948	1.638E+04
Pb 208	205	10.0030	200	5.9648
Bi 209	285576	4142.9170 ✓	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.		% RSD
Ar2 80	-27244	3.433E+04				
As 75	⌋ -1.301E-05	4.533E-05	0.0000	n/a	ppb	n/a
Y 89	<⌋ 366040	7422.0776			ions/sec	
Cd 111	⌋ 1.330E-05	1.583E-05	0.0153	0.0190	ppb	124.2729
In 115	<⌋ 367927	1392.1976			ions/sec	
Pb 208	⌋ 2.888E-05	4.064E-05	0.0000	n/a	ppb	n/a
Bi 209	<⌋ 285576	4142.9170			ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdbp  
  
 Sample ID: mrccs  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 027  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 18:57:17 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	707972	3934.6218	735636	3.428E+04
As 75	2738	99.6472	63	16.1650
Y 89	371722	1.641E+04	✓ 380051	1.090E+04
Cd 111	3256	129.9743	35	2.3002
In 115	374159	6162.5991	✓ 379948	1.638E+04
Pb 208	34948	598.4107	200	5.9648
Bi 209	290788	2521.3901	✓ 289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-27664	3.451E+04			
As 75	7.200E-03	2.714E-04	9.7254	0.3666 ppb	3.7692
Y 89	<J 371722	1.641E+04		ions/sec	
Cd 111	8.610E-03	3.474E-04	10.3171	0.4164 ppb	4.0356
In 115	<J 374159	6162.5991		ions/sec	
Pb 208	0.1195	2.058E-03	9.9890	0.1725 ppb	1.7270
Bi 209	<J 290788	2521.3901		ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: ccv  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 028  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 19:01:02 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	710349	1.476E+04	735636	3.428E+04
As 75	13458	678.1203	63	16.1650
Y 89	375121	1.470E+04	380051	1.090E+04
Cd 111	16152	1155.0248	35	2.3002
In 115	374739	9876.2207	379948	1.638E+04
Pb 208	170647	5343.7432	200	5.9648
Bi 209	285913	9123.8076	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-25288	3.732E+04			
As 75	0.0357	1.808E-03	48.2324	2.4421	5.0633
Y 89	375121	1.470E+04			ions/sec
Cd 111	0.0430	3.082E-03	51.5398	3.6937	7.1667
In 115	374739	9876.2207			ions/sec
Pb 208	0.5962	0.0187	49.9457	1.5667	3.1368
Bi 209	285913	9123.8076			ions/sec



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdbp  
 Sample ID: clf0263-07  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 029  
 Blank: Subtracted (001)  
 Dilution Factor: 200  
 Number of Repeats: 3  
 Time: 19:04:49 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35

Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	715065	3.395E+04	735636	3.428E+04
As 75	307	28.5283	63	16.1650
Y 89	> 3057277	9.922E+04	380051	1.090E+04
Cd 111	10883	1001.3544	35	2.3002
In 115	350631	1.511E+04	379948	1.638E+04
Pb 208	64147	2383.7517	200	5.9648
Bi 209	264547	9928.9336	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-20571	4.824E+04			
As 75	] -6.570E-05	4.355E-05	0.0000	n/a	ppb n/a
Y 89	<] 3057277	9.922E+04			ions/sec
Cd 111	] 0.0309	2.856E-03	7416.5757	684.4904	ppb 9.2292
In 115	<] 350631	1.511E+04			ions/sec
Pb 208	] 0.2418	9.011E-03	4048.1064	151.0655	ppb 3.7318
Bi 209	<] 264547	9928.9336			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: clf0263-08  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 030  
 Blank: Subtracted (001)  
 Dilution Factor: 200  
 Number of Repeats: 3  
 Time: 19:08:31 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	730887	4.301E+04	735636	3.428E+04
As 75	171	16.6736	63	16.1650
Y 89	1856293	5.137E+04	380051	1.090E+04
Cd 111	8497	1040.1868	35	2.3002
In 115	371395	2.483E+04	379948	1.638E+04
Pb 208	23148	717.0129	200	5.9648
Bi 209	280383	1.329E+04	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-4749	5.500E+04			
As 75	-7.398E-05	4.347E-05	0.0000	n/a	ppb
Y 89	1856293	5.137E+04			ions/sec
Cd 111	0.0228	2.801E-03	5460.9141	671.2814	ppb
In 115	371395	2.483E+04			ions/sec
Pb 208	0.0819	2.557E-03	1366.9990	42.8741	ppb
Bi 209	280383	1.329E+04			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdbp  
  
 Sample ID: clf0263-09  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 031  
 Blank: Subtracted (001)  
 Dilution Factor: 200  
 Number of Repeats: 3  
 Time: 19:12:10 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	717611	1.734E+04	735636	3.428E+04
As 75	95	5.2954	63	16.1650
Y 89	458894	9469.5596	380051	1.090E+04
Cd 111	6793	212.5673	35	2.3002
In 115	365790	1.135E+04	379948	1.638E+04
Pb 208	26689	379.3539	200	5.9648
Bi 209	278029	2147.6343	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-18025	3.842E+04			
As 75	4.189E-05	4.407E-05	11.6934	11.9042	101.8028
Y 89	458894	9469.5596			ions/sec
Cd 111	0.0185	5.812E-04	4428.8979	139.2890	3.1450
In 115	365790	1.135E+04			ions/sec
Pb 208	0.0953	1.365E-03	1592.2545	22.8776	1.4368
Bi 209	278029	2147.6343			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdbp  
  
 Sample ID: c1f0263-10  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 032  
 Blank: Subtracted (001)  
 Dilution Factor: 200  
 Number of Repeats: 3  
 Time: 19:15:50 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	709151	1505.4143	735636	3.428E+04
As 75	284	22.0301	63	16.1650
Y 89	> 3000000	0.0000	↑ 380051	1.090E+04
Cd 111	9824	145.1452	✓ 35	2.3002
In 115	360912	1800.0806	✓ 379948	1.638E+04
Pb 208	17955	160.5297	✓ 200	5.9648
Bi 209	275943	1397.8531	✓ 289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-26485	3.431E+04			
As 75	⌈ -7.142E-05	4.316E-05	0.0000	n/a	ppb n/a
Y 89	<⌋ 3000000	0.0000			ions/sec
Cd 111	⌈ 0.0271	4.022E-04	6501.8828	96.4005	ppb 1.4827
In 115	<⌋ 360912	1800.0806			ions/sec
Pb 208	⌈ 0.0644	5.821E-04	1073.7943	9.7592	ppb 0.9089
Bi 209	<⌋ 275943	1397.8531			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdbp  
  
 Sample ID: c1f0263-11  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 033  
 Blank: Subtracted (001)  
 Dilution Factor: 200  
 Number of Repeats: 3  
 Time: 19:19:26 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	707093	5.631E+04	735636	3.428E+04
As 75	98	29.0746	63	16.1650
Y 89	419415	1.942E+04	✓ 380051	1.090E+04
Cd 111	2325	198.3117	35	2.3002
In 115	358000	2.779E+04	✓ 379948	1.638E+04
Pb 208	6047	312.5444	200	5.9648
Bi 209	277133	1.601E+04	✓ 289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-28543	6.593E+04			
As 75	6.864E-05	8.133E-05	18.9192	21.9683	116.1162
Y 89	419415	1.942E+04			ions/sec
Cd 111	6.402E-03	5.540E-04	1534.2616	132.7761	8.6541
In 115	358000	2.779E+04			ions/sec
Pb 208	0.0211	1.128E-03	348.7134	18.9105	5.4229
Bi 209	277133	1.601E+04			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: clf0263-12  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 034  
 Blank: Subtracted (001)  
 Dilution Factor: 200  
 Number of Repeats: 3  
 Time: 19:23:07 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	691477	2437.9260	735636	3.428E+04
As 75	130	20.1313	63	16.1650
Y 89	2030884	2.992E+04	380051	1.090E+04
Cd 111	8304	313.8351	35	2.3002
In 115	350907	991.9821	379948	1.638E+04
Pb 208	17446	144.2044	200	5.9648
Bi 209	268245	2377.5137	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-44160	3.437E+04			
As 75	> -1.023E-04	4.367E-05	0.0000	n/a	ppb n/a
Y 89	<J 2030884	2.992E+04			ions/sec
Cd 111	> 0.0236	8.944E-04	5649.5205	214.3622	ppb 3.7943
In 115	<J 350907	991.9821			ions/sec
Pb 208	> 0.0643	5.380E-04	1073.2781	9.0193	ppb 0.8403
Bi 209	<J 268245	2377.5137			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: clf0263-13  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 035  
 Blank: Subtracted (001)  
 Dilution Factor: 200  
 Number of Repeats: 3  
 Time: 19:26:48 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	704128	1177.0531	735636	3.428E+04
As 75	797	12.5670	63	16.1650
Y 89	> 3000000	0.0000	↑ 380051	1.090E+04
Cd 111	5805	96.6140	35	2.3002
In 115	359259	2815.7319	✓ 379948	1.638E+04
Pb 208	31060	356.8899	200	5.9648
Bi 209	274320	1571.6309	✓ 289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-31508	3.430E+04			
As 75	∩ 9.961E-05	4.274E-05	27.2856	11.5445 ppb	42.3097
Y 89	<∩ 3000000	0.0000		ions/sec	
Cd 111	∩ 0.0161	2.690E-04	3850.5669	64.4719 ppb	1.6743
In 115	<∩ 359259	2815.7319		ions/sec	
Pb 208	∩ 0.1125	1.301E-03	1881.1299	21.8141 ppb	1.1596
Bi 209	<∩ 274320	1571.6309		ions/sec	

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: c1f0263-15  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 036  
 Blank: Subtracted (001)  
 Dilution Factor: 200  
 Number of Repeats: 3  
 Time: 19:30:26 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	736412	2.080E+04	735636	3.428E+04
As 75	64	33.1677	63	16.1650
Y 89	407967	3082.5366	380051	1.090E+04
Cd 111	156	6.0205	35	2.3002
In 115	374791	9207.1748	379948	1.638E+04
Pb 208	5166	29.6507	200	5.9648
Bi 209	279117	2304.7734	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	776	4.010E+04			
As 75	-8.173E-06	9.175E-05	0.0000	n/a	n/a
Y 89	407967	3082.5366			ions/sec
Cd 111	3.232E-04	1.717E-05	77.3279	4.1145	ppb
In 115	374791	9207.1748			ions/sec
Pb 208	0.0178	1.082E-04	293.1797	1.8142	ppb
Bi 209	279117	2304.7734			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: cal blank  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 039  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 19:41:39 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	698710	4.057E+04	735636	3.428E+04
As 75	67	12.8155	63	16.1650
Y 89	365044	2.254E+04	✓ 380051	1.090E+04
Cd 111	36	2.6624	35	2.3002
In 115	365220	2.098E+04	✓ 379948	1.638E+04
Pb 208	204	19.3421	200	5.9648
Bi 209	279289	9603.6318	✓ 289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-36926	5.311E+04			
As 75	⌋ 1.623E-05	5.515E-05	0.0238	0.0745 ppb	312.7590
Y 89	<⌋ 365044	2.254E+04		ions/sec	
Cd 111	⌋ 6.876E-06	9.476E-06	7.563E-03	0.0114 ppb	150.1506
In 115	<⌋ 365220	2.098E+04		ions/sec	
Pb 208	⌋ 4.243E-05	7.226E-05	0.0000	n/a ppb	n/a
Bi 209	<⌋ 279289	9603.6318		ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdbp  
  
 Sample ID: mrcs  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 040  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 19:45:21 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	707463	2.202E+04	735636	3.428E+04
As 75	2753	149.3270	63	16.1650
Y 89	367722	1.539E+04	✓ 380051	1.090E+04
Cd 111	3217	155.4244	35	2.3002
In 115	371107	1.152E+04	✓ 379948	1.638E+04
Pb 208	34527	872.7088	200	5.9648
Bi 209	286217	8682.0605	✓ 289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-28173	4.075E+04			
As 75	7.321E-03	4.083E-04	9.8897	0.5514 ppb	5.5759
Y 89	<J 367722	1.539E+04		ions/sec	
Cd 111	8.577E-03	4.189E-04	10.2775	0.5020 ppb	4.8840
In 115	<J 371107	1.152E+04		ions/sec	
Pb 208	0.1199	3.049E-03	10.0265	0.2556 ppb	2.5492
Bi 209	<J 286217	8682.0605		ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: ccv  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 041  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 19:49:06 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	728099	1.844E+04	735636	3.428E+04
As 75	13582	195.7414	63	16.1650
Y 89	368153	1838.2021	✓ 380051	1.090E+04
Cd 111	15663	372.2734	35	2.3002
In 115	376934	4902.0405	✓ 379948	1.638E+04
Pb 208	170214	2272.1362	200	5.9648
Bi 209	289718	4840.6660	✓ 289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-7537	3.893E+04			
As 75	0.0367	5.334E-04	49.6015	0.7204 ppb	1.4523
Y 89	368153	1838.2021		ions/sec	
Cd 111	0.0415	9.877E-04	49.6844	1.1836 ppb	2.3822
In 115	376934	4902.0405		ions/sec	
Pb 208	0.5868	7.843E-03	49.1634	0.6574 ppb	1.3372
Bi 209	289718	4840.6660		ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdbp  
  
 Sample ID: cal blank  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 049  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 20:18:57 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	701335	1.558E+04	735636	3.428E+04
As 75	66	12.5992	✓ 63	16.1650
Y 89	355493	1118.5397	✓ 380051	1.090E+04
Cd 111	42	2.1754	✓ 35	2.3002
In 115	362070	8503.7656	✓ 379948	1.638E+04
Pb 208	208	1.5945	✓ 200	5.9648
Bi 209	275540	5053.3062	✓ 289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-34301	3.766E+04			
As 75	2.092E-05	5.536E-05	0.0302	0.0748	247.9726
Y 89	<J 355493	1118.5397			ions/sec
Cd 111	2.291E-05	8.529E-06	0.0268	0.0102	38.1631
In 115	<J 362070	8503.7656			ions/sec
Pb 208	6.549E-05	2.141E-05	0.0000	n/a	ppb
Bi 209	<J 275540	5053.3062			ions/sec



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: mrcc  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 050  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 20:22:39 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	711682	1.063E+04	735636	3.428E+04
As 75	2739	60.2629	63	16.1650
Y 89	362372	8262.8115	380051	1.090E+04
Cd 111	3141	46.8343	35	2.3002
In 115	367588	7967.2061	379948	1.638E+04
Pb 208	33746	588.4006	200	5.9648
Bi 209	281951	6200.5996	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-23954	3.589E+04			
As 75	7.394E-03	1.717E-04	9.9875	0.2318	2.3212
Y 89	362372	8262.8115			ions/sec
Cd 111	8.452E-03	1.276E-04	10.1278	0.1529	1.5093
In 115	367588	7967.2061			ions/sec
Pb 208	0.1190	2.087E-03	9.9473	0.1749	1.7587
Bi 209	281951	6200.5996			ions/sec

QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: ccv  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 051  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 20:26:24 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	716485	1.209E+04	735636	3.428E+04
As 75	13467	313.9415	63	16.1650
Y 89	361287	8133.6470	380051	1.090E+04
Cd 111	15527	621.7275	35	2.3002
In 115	370658	5614.1484	379948	1.638E+04
Pb 208	167011	2977.2961	200	5.9648
Bi 209	284978	4849.7559	289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-19151	3.635E+04			
As 75	0.0371	8.700E-04	50.1204	1.1750 ppb	2.3443
Y 89	361287	8133.6470		ions/sec	
Cd 111	0.0418	1.677E-03	50.0891	2.0101 ppb	4.0131
In 115	370658	5614.1484		ions/sec	
Pb 208	0.5854	0.0104	49.0404	0.8758 ppb	1.7858
Bi 209	284978	4849.7559		ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
  
 Sample ID: ics  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 052  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 20:30:10 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	713051	6896.2852	735636	3.428E+04
As 75	27099	1308.4369	63	16.1650
Y 89	363250	1.568E+04	✓ 380051	1.090E+04
Cd 111	31368	1208.2317	35	2.3002
In 115	363850	376.0117	✓ 379948	1.638E+04
Pb 208	330648	7518.1196	200	5.9648
Bi 209	275905	3890.8821	✓ 289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-22586	3.497E+04			
As 75	0.0744	3.602E-03	100.5325	4.8651 ppb	4.8393
Y 89	<J 363250	1.568E+04		ions/sec	
Cd 111	0.0861	3.321E-03	103.2019	3.9795 ppb	3.8560
In 115	<J 363850	376.0117		ions/sec	
Pb 208	1.1977	0.0272	100.3720	2.2842 ppb	2.2757
Bi 209	<J 275905	3890.8821		ions/sec	



QUANTITATIVE ANALYSIS: SUMMARY REPORT

Data Set: 071201\_2  
 Data Set Description:  
 Parameter File: ascdpb  
 Sample ID: crdl  
 Sample Description:  
 Sample Type: Sample  
 Sequence Number: 053  
 Blank: Subtracted (001)  
 Dilution Factor: 1  
 Number of Repeats: 3  
 Time: 20:33:53 Jul 12 1997  
 Signal Profile Processing: Average  
 Spectral Peak Processing: Average  
 Deadtime Correction: 35  
 Calibration File: [Untitled]  
 Calibration: External Standard

	Sample Intensity	Std. Dev.	Blank Intensity	Std. Dev.
Ar2 80	704317	8249.1855	735636	3.428E+04
As 75	380	28.0424	63	16.1650
Y 89	360500	2905.0835	✓ 380051	1.090E+04
Cd 111	342	18.8277	35	2.3002
In 115	362892	6408.5249	✓ 379948	1.638E+04
Pb 208	3556	90.0143	200	5.9648
Bi 209	279404	7200.8330	✓ 289392	9827.2168

	Net Ratio/ Intensity	Std. Dev.	Conc.	Std. Dev.	% RSD
Ar2 80	-31320	3.526E+04			
As 75	8.873E-04	8.866E-05	1.2002	0.1197 ppb	9.9763
Y 89	360500	2905.0835		ions/sec	
Cd 111	8.512E-04	5.223E-05	1.0194	0.0626 ppb	6.1407
In 115	362892	6408.5249		ions/sec	
Pb 208	0.0120	3.228E-04	0.9814	0.0271 ppb	2.7575
Bi 209	279404	7200.8330		ions/sec	

10:30:51 11 Jul 2001

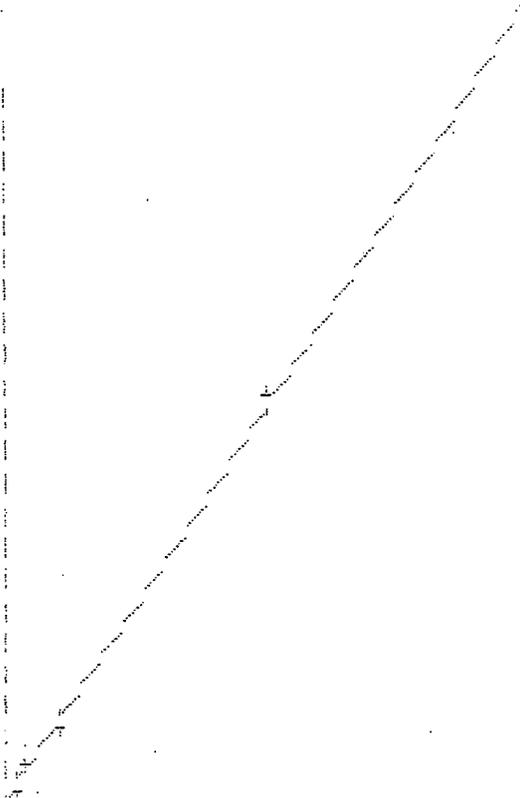
Folder: july01  
Protocol: npanel

na	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Sec: 42	10:30:51 11 Jul 2001 HG			
Hg	.000		-772e					
*** Standard: 2 Rep: 1				Sec: 43	10:32:19 11 Jul 2001 HG			

\*\*\* Standard: 3 Rep: 1                      Sec: 44                      10:33:41 11 Jul 2001 HB  
 Hg        .500                      18912  
 \* Standard: 4 Rep: 1                      Sec: 45                      10:34:50 11 Jul 2001 HB  
 Hg        1.00                      50671  
 \*\*\* Standard: 5 Rep: 1                      Sec: 46                      10:36:01 11 Jul 2001 HB  
 Hg        5.00                      239044  
 \*\*\* Standard: 6 Rep: 1                      Sec: 47                      10:37:22 11 Jul 2001 HB  
 Hg        10.0                      479615  
 X  
 6

RunDate: 10/01/01	RunTime: 10:37:22	Sec: 47	Batch: 1
RunFold: 10/01	RunTime: 10:37:22	Sec: 47	Batch: 1
Print: R/T On	Print: R/T On		
Run: 4.0	10:34:45 11 Jul 2001 AM11.01	Sec: 46	Batch: 1
REV: 1.0	10:37:22 11 Jul 2001 AM11.01	Sec: 47	Batch: 1
File	User: LAS	A/S: On	

LINE NO.	CONC.	Calc.	Dev.	Method
S1	.000	.000	.000	Linear
S1	.000	-.007	-.007	quadratic
S2	.200	.200	.000	Linear
S3	.500	.446	-.054	Linear
S3	.500	.446	-.054	Linear
S4	1.000	1.000	.000	Linear
S4	1.000	1.000	.000	Linear
S5	5.000	4.96	-.040	Linear
S6	10.00	10.00	.000	Linear
S6	10.00	10.00	.000	Linear
A	1.0476	1.0	.0476	Linear
H	1.0476E-12	1	.047613	Linear
B	2.02367E-5	0	6.26041E-2	Linear



LINE NO.	MEAN	SDEN	SDEN
S1	.000	0	.000
S2	11156	0	11156
S3	10312	0	10312
S4	50671	0	50671
S5	220044	0	220044
S6	470015	0	470015

Relative Absorbance  
RELATIVE ABSORBANCE

NEW CAL COEFFICIENTS STORED

Folder: july01  
Protocol: hganal

10:57:14 11 Jul 2001

LINE	CONC.	UNITS	SD/RSD	1	2	3	4	5
*** Check Standard:	2	Ck25 ppb		Seq: 48	10:57:14	11 Jul 2001	HG	
Line Flag	XRcv.	Found	True	Units	SD/RSD			
Hg	102.	5.09	5.00	✓	.000			
*** Check Standard:	1	Ck1BLANK		Seq: 49	10:58:23	11 Jul 2001	HG	









✓

```

*** Sample ID: f0263-5          Seq: 98      11:58:19 11 Jul 2001 HG
Hg      25.6          .000      25.6
      10x
*** Sample ID: f0263-6          Seq: 99      11:59:51 11 Jul 2001 HG
Hg      54.2          .000      54.2
      10x
*** Sample ID: f0263-7          Seq: 100     12:01:49 11 Jul 2001 HG
Hg      53.5          .000      53.5
      10x
*** Sample ID: f0263-8          Seq: 101     12:03:07 11 Jul 2001 HG
Hg      30.1          .000      30.1
      10x
*** Sample ID: f0263-9          Seq: 102     12:04:37 11 Jul 2001 HG
Hg      25.1          .000      25.1
      10x
*** Sample ID: f0263-10         Seq: 103     12:05:56 11 Jul 2001 HG
Hg      43.4          .000      43.4
      10x
*** Sample ID: f0263-11         Seq: 104     12:07:14 11 Jul 2001 HG
Hg      24.5          .000      24.5
      10x
*** Sample ID: f0263-11s       Seq: 105     12:08:47 11 Jul 2001 HG
      25.4          .000      25.4
      10x
*** Sample ID: f0263-11sd      Seq: 106     12:10:21 11 Jul 2001 HG
Hg      25.0          .000      25.0
      10x
*** Sample ID: f0263-12         Seq: 107     12:11:34 11 Jul 2001 HG
Hg      44.6          .000      44.6
      10x

```

12:12:53 11 Jul 2001

Folder: July01  
 Protocol: ncanal

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Line	Conc.	Units	SD/RSD	1	2	3	4	5
------	-------	-------	--------	---	---	---	---	---

```

*** Check Standard: 2 Cx25 cpb      Seq: 108     12:12:53 11 Jul 2001 HG
Line Flag XRev. Found True Units SD/RSD
Hg      93.5      4.68  5.00      .000

```

```

*** Check Standard: 1 Cx1BLANK      Seq: 109     12:13:59 11 Jul 2001 HG

```







```

*** Sample ID: f0263-13          Seq: 146      14:01:06 11 Jul 2001 HG
                100x
Hg      4.72          .000      4.72

* Sample ID: f0263-15          Seq: 147      14:02:22 11 Jul 2001 HG
                100x
Hg      2.49          .000      2.49

*** Sample ID: f0263-1sd       Seq: 148      14:03:37 11 Jul 2001 HG
                100x
Hg      2.94          .000      2.94

*** Sample ID: 7-6 ext 1      Seq: 149      14:04:51 11 Jul 2001 HG
Hg      -.041        .000      -.041

*** Check Standard: 2 Ck25 ppb  Seq: 150      14:06:00 11 Jul 2001 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg          104.    5.18   5.00  ✓      .000

*** Check Standard: 1 Ck1BLANK  Seq: 151      14:07:06 11 Jul 2001 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg          -.097    .200  ✓      .000

*** Check Standard: 2 Ck25 ppb  Seq: 152      14:08:21 11 Jul 2001 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg          101.    5.05   5.00  ✓      .000

*** Check Standard: 1 Ck1BLANK  Seq: 153      14:09:41 11 Jul 2001 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg          -.024    .200  ✓      .000

*** Sample ID: f0263-11s      Seq: 154      14:11:00 11 Jul 2001 HG
                100x
Hg      2.59          .000      2.59

*** Sample ID: f0263-11sd     Seq: 155      14:12:26 11 Jul 2001 HG
                100x
Hg      2.55          .000      2.55

```

Folder: 111701  
Protocol: general

14:13:37 11 Jul 2001

```

#   Date.  units  SD/RSD  1  2  3  4  5
-----
*** Check Standard: 2 Ck25 ppb  Seq: 156      14:13:37 11 Jul 2001 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg          101.    5.07   5.00  ✓      .000

*** Check Standard: 1 Ck1BLANK  Seq: 157      14:15:34 11 Jul 2001 HG

```

✓

14:53:56 11 Jul 2001

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Check Standard: 2								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		93.8	4.69	5.00		.000		
Seq: 173							14:53:56	11 Jul 2001 HG
*** Check Standard: 1								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg	L	-.304	.200		.000			
Seq: 174							14:55:07	11 Jul 2001 HG
*** Standard: 1	Rep: 1							
Hg		.000					14:56:37	11 Jul 2001 HG
Seq: 175								
*** Standard: 1	Rep: 1							
Hg		.000					14:58:55	11 Jul 2001 HG
Seq: 176								
*** Standard: 1	Rep: 1							
Hg		.000					15:00:55	11 Jul 2001 HG
Seq: 177								
*** Standard: 2	Rep: 1							
Hg		.200					15:02:15	11 Jul 2001 HG
Seq: 178								
*** Standard: 3	Rep: 1							
Hg		.500					15:03:24	11 Jul 2001 HG
Seq: 179								
*** Standard: 4	Rep: 1							
Hg		1.00					15:04:53	11 Jul 2001 HG
Seq: 180								
*** Standard: 1	Rep: 1							
Hg		.000					15:07:46	11 Jul 2001 HG
Seq: 181								
*** Standard: 1	Rep: 1							
Hg		.000					15:13:45	11 Jul 2001 HG
Seq: 182								
*** Standard: 2	Rep: 1							
Hg		.200					15:11:56	11 Jul 2001 HG
Seq: 183								
*** Standard: 1	Rep: 1							
Hg		.000					15:24:44	11 Jul 2001 HG
Seq: 184								

09/18/01

15:25:52 11 Jul 2001

Folder: july01  
Protocol: hganal

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Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 2 Rep: 1				Seq: 185		15:25:52	11 Jul 2001	HG
Hg	.200		18382					
*** Standard: 3 Rep: 1				Seq: 186		15:27:05	11 Jul 2001	HG
Hg	.500		40979					
*** Standard: 4 Rep: 1				Seq: 187		15:28:17	11 Jul 2001	HG
Hg	1.00		72376					
*** Standard: 5 Rep: 1				Seq: 188		15:29:28	11 Jul 2001	HG
Hg	5.00		289831					
*** Standard: 6 Rep: 1				Seq: 189		15:31:03	11 Jul 2001	HG
Hg	10.0		575854					

X



Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Creep Standard: 2 D225 ppb Seq: 190 15:33:26 11 Jul 2001 HG								
Line	Flag	XPrct	Found	True	Units	SD/RSD		
Hg		98.0	4.91	5.00	✓	.000		
*** Creep Standard: 1 CRIBLANK Seq: 191 15:34:35 11 Jul 2001 HG								
Line	Flag	Found	Range	Units	SD/RSD			
Hg		1.001	1.500	✓	.000			
*** Sample ID: blank Seq: 192 15:35:45 11 Jul 2001 HG								
Hg		.019	✓	.000	.019			
*** Sample ID: blank Seq: 193 15:37:00 11 Jul 2001 HG								
Hg		.149	✓	.000	.149			
*** Sample ID: blanklike Seq: 194 15:38:13 11 Jul 2001 HG								
Hg		3.03	✓	.000	3.03			
*** Sample ID: blanklike Seq: 195 15:39:47 11 Jul 2001 HG								
Hg		2.96	✓	.000	2.96			
*** Sample ID: lcs 5x Seq: 196 15:40:52 11 Jul 2001 HG								
Hg		8.08	✓	.000	8.08			
*** Sample ID: lcs 5x Seq: 197 15:42:06 11 Jul 2001 HG								
Hg		7.67	✓	.000	7.67			
*** Sample ID: 3ref Seq: 198 15:43:20 11 Jul 2001 HG								
Hg		2.90	✓	.000	2.90			
*** Sample ID: 3ref Seq: 199 15:44:50 11 Jul 2001 HG								
Hg		2.98	✓	.000	2.98			
*** Sample ID: 5ref Seq: 200 15:45:09 11 Jul 2001 HG								
Hg		5.09	✓	.000	5.09			
*** Sample ID: 5ref Seq: 201 15:47:37 11 Jul 2001 HG								
Hg		5.13	✓	.000	5.13			

15:48:55 11 Jul 2001

Folder: july01  
Protocol: nganal

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Check Standard: 2 Ck25 ppb Seq: 202 15:48:55 11 Jul 2001 HG								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		99.1	4.95	5.00	✓	.000		
*** Check Standard: 1 Ck1BLANK Seq: 203 15:50:13 11 Jul 2001 HG								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-0.071	.500	✓	.000			
*** Sample ID: g0016-1 Seq: 204 15:51:21 11 Jul 2001 HG								
Hg	1.32		.000	1.32				
*** Sample ID: g0016-1s Seq: 205 15:52:36 11 Jul 2001 HG								
Hg	5.08		.000	5.08				
*** Sample ID: g0016-1sd Seq: 206 15:54:04 11 Jul 2001 HG								
Hg	5.91		.000	5.91				
*** Sample ID: g0016-2 Seq: 207 15:55:33 11 Jul 2001 HG								
Hg	1.38		.000	1.38				
*** Sample ID: g0016-3 Seq: 208 15:56:41 11 Jul 2001 HG								
Hg	.591		.000	.591				
*** Sample ID: g0016-4 Seq: 209 15:57:57 11 Jul 2001 HG								
Hg	1.69		.000	1.69				
*** Sample ID: g0016-5 Seq: 210 15:59:05 11 Jul 2001 HG								
Hg	2.45		.000	2.45				
*** Sample ID: g0003-12 Seq: 211 16:00:42 11 Jul 2001 HG								
Hg	.022		.000	.022				
*** Sample ID: g0003-12s Seq: 212 16:02:08 11 Jul 2001 HG								
Hg	3.10		.000	3.10				
*** Sample ID: g0003-12sd Seq: 213 16:03:14 11 Jul 2001 HG								
	2.95		.000	2.95				

14:04:22 11 Jul 2001

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Check Standard: 2 Ck25 ppb								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		95.4	4.77	5.00	✓	.000		
*** Check Standard: 1 Ck1BLANK								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.137	.500	✓	.000			
*** Sample ID: g0003-13								
Hg		.126	.000	.126				
*** Sample ID: g0003-14								
Hg		.014	.000	.014				
*** Sample ID: g0003-17								
Hg		.319	.000	.319				
*** Sample ID: g0003-18								
Hg		.965	.000	.965				
*** Sample ID: g0003-25								
Hg		1.77	.000	1.77				
*** Sample ID: g0032-1								
Hg		.341	.000	.341				
*** Sample ID: g0032-2								
Hg		.065	.000	.065				
*** Sample ID: f0263-1								
Hg		1.77	.000	1.77				
*** Sample ID: f0263-1a								
Hg		1.39	.000	1.39				
*** Sample ID: f0263-1ac								
Hg		1.90	.000	1.90				

BQ 7/12/01

16:19:24 11 Jul 2001

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Check Standard: 2	Ck25	ppb		Seq: 226		16:19:24	11 Jul 2001	HG
Line Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg	92.3	4.61	5.00		.000			
*** Check Standard: 1	Ck1BLANK			Seq: 227		16:20:42	11 Jul 2001	HG
Line Flag	Found	Range(+/-)	Units	SD/RSD				
Hg	-.329	.500		.000				
*** Check Standard: 2	Ck25	ppb		Seq: 228		16:22:09	11 Jul 2001	HG
Line Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg	L 89.2	4.46	5.00		.000			
*** Check Standard: 2	Ck25	ppb		Seq: 229		16:23:18	11 Jul 2001	HG
Line Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg	91.3	4.57	5.00		.000			
*** Check Standard: 1	Ck1BLANK			Seq: 230		16:24:28	11 Jul 2001	HG
Line Flag	Found	Range(+/-)	Units	SD/RSD				
Hg	-.199	.500		.000				
*** Sample ID: g0003-13				Seq: 231		16:25:34	11 Jul 2001	HG
	-.055	.000	-.055					
*** Sample ID: g0003-14				Seq: 232		16:26:39	11 Jul 2001	HG
Hg	.143	.000	.143					
*** Sample ID: g0003-17				Seq: 233		16:27:55	11 Jul 2001	HG
Hg	.289	.000	.289					
*** Sample ID: g0003-18				Seq: 234		16:29:11	11 Jul 2001	HG
Hg	.894	.000	.894					
*** Sample ID: g0003-25				Seq: 235		16:30:17	11 Jul 2001	HG
Hg	1.76	.000	1.76					
*** Sample ID: g0032-1				Seq: 236		16:31:23	11 Jul 2001	HG
Hg	.037	.000	.037					
*** Sample ID: g0032-2				Seq: 237		16:32:34	11 Jul 2001	HG
Hg	.174	.000	.174					

BQ 7/12/01

16:33:43 11 Jul 2001

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: f0263-1				Seq: 238	16:33:43	11 Jul 2001	Hg	
Hg	1.86		.000	1.86				
*** Sample ID: f0263-1e				Seq: 239	16:35:19	11 Jul 2001	Hg	
Hg	1.42		.000	1.42				
*** Sample ID: f0263-1sd				Seq: 240	16:36:24	11 Jul 2001	Hg	
Hg	2.18		.000	2.18				
*** Check Standard: 2 Ck25 ppb				Seq: 241	16:37:44	11 Jul 2001	Hg	
Line Flag %Rcv. Found True Units SD/RSD								
Hg L 80.9 4.04 5.00 .000								
*** Check Standard: 1 Ck1BLANK				Seq: 242	16:38:53	11 Jul 2001	Hg	
Line Flag Found Range(+/-) Units SD/RSD								
Hg -.265 .500 .000								
*** Check Standard: 2 Ck25 ppb				Seq: 243	16:41:28	11 Jul 2001	Hg	
Line Flag %Rcv. Found True Units SD/RSD								
Hg 93.4 4.67 5.00 .000								
*** Check Standard: 1 Ck1BLANK				Seq: 244	16:42:38	11 Jul 2001	Hg	
Line Flag Found Range(+/-) Units SD/RSD								
Hg -.113 .500 .000								
*** Sample ID: g0003-13				Seq: 245	16:44:07	11 Jul 2001	Hg	
Hg	.067		.000	.067				
*** Sample ID: g0003-14				Seq: 246	16:45:15	11 Jul 2001	Hg	
Hg	.295		.000	.295				
*** Sample ID: g0003-17				Seq: 247	16:46:55	11 Jul 2001	Hg	
Hg	.289		.000	.289				
*** Sample ID: g0003-18				Seq: 248	16:48:14	11 Jul 2001	Hg	
Hg	.842		.000	.842				
*** Sample ID: g0003-25				Seq: 249	16:49:33	11 Jul 2001	Hg	
Hg	1.80		.000	1.80				

BQ 7/12/01

16:50:42 11 Jul 2001

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: g0032-1				Seq: 250	16:50:42	11 Jul 2001	HG	
Hg	.030		.000	.030				
*** Sample ID: g0032-2				Seq: 251	16:52:00	11 Jul 2001	HG	
Hg	.164		.000	.164				
*** Sample ID: f0263-15				Seq: 252	16:53:08	11 Jul 2001	HG	
Hg	.466		.000	.466				
*** Check Standard: 2 Ck25 ppb				Seq: 253	16:54:26	11 Jul 2001	HG	
Line Flag %Rcv. Found True Units					SD/RSD			
Hg L 89.2 4.46 5.00				✓	.000			
*** Check Standard: 1 Ck1BLANK				Seq: 254	16:56:05	11 Jul 2001	HG	
Line Flag Found Range(+/-) Units					SD/RSD			
Hg -.073 .500				✓	.000			
*** Check Standard: 2 Ck25 ppb				Seq: 255	16:59:00	11 Jul 2001	HG	
Line Flag %Rcv. Found True Units					SD/RSD			
Hg L 88.3 4.42 5.00					.000			
*** Check Standard: 2 Ck25 ppb				Seq: 256	17:00:10	11 Jul 2001	HG	
Line Flag %Rcv. Found True Units					SD/RSD			
Hg 93.9 4.69 5.00				✓	.000			
*** Check Standard: 1 Ck1BLANK				Seq: 257	17:01:31	11 Jul 2001	HG	
Line Flag Found Range(+/-) Units					SD/RSD			
Hg -.079 .500				✓	.000			
*** Sample ID: g0016-1ps				Seq: 258	17:02:50	11 Jul 2001	HG	
Hg	4.53		.000	4.53				
*** Sample ID: g0016-1psd				Seq: 259	17:04:08	11 Jul 2001	HG	
Hg	4.50		.000	4.50				
*** Check Standard: 2 Ck25 ppb				Seq: 260	17:05:29	11 Jul 2001	HG	
Line Flag %Rcv. Found True Units					SD/RSD			
Hg L 82.4 4.12 5.00				✓	.000			
*** Check Standard: 1 Ck1BLANK				Seq: 261	17:06:36	11 Jul 2001	HG	
Line Flag Found Range(+/-) Units					SD/RSD			
Hg -.215 .500				✓	.000			

X*** Standard: 1 Rep: 1	Sec: 302	14:35:26 15 Jul 2001 HF
Hg .000	03741	
*** Standard: 2 Rep: 1	Sec: 303	14:36:34 15 Jul 2001 HF
Hg .200	13801	
*** Standard: 3 Rep: 1	Sec: 304	14:37:46 15 Jul 2001 HF
Hg .500	23557	
*** Standard: 4 Rep: 1	Sec: 305	14:39:18 15 Jul 2001 HF
Hg 1.00	69360	
*** Standard: 5 Rep: 1	Sec: 306	14:40:28 15 Jul 2001 HF
Hg 5.00	330499	
*** Standard: 6 Rep: 1	Sec: 307	14:41:39 15 Jul 2001 HF
Hg 10.0	622556	

X  
d

Unit: hussel  
 num100: hussel

Runfold: ulu001 Ser: 300 Batch:

Print: R/T On  
 11:00: 11/1/00

REV: 4.0 14.42.00 45 1.1 2004 V.11. 000 GDS: 0.70 10M  
 REV: 4.0 14.42.00 13 JUL 2001 AM11. VII GDS: 0.70 LGH

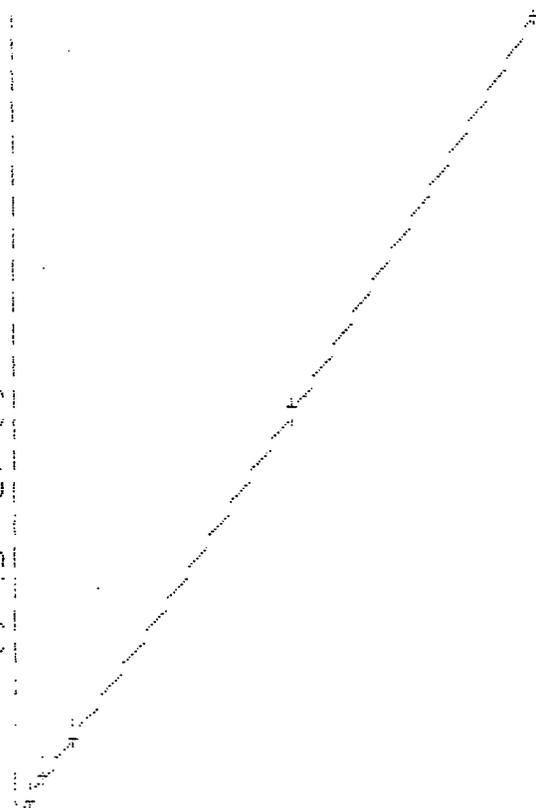
Idle

User: LAX

A/S: On

CALIBRATION: Line photo: hussel  
 CONDITION: Line proto: hussel

NO	Conc	Calc	Dev	Method	Accepted
01	0.000	0.022	0.022	Linear	
01	0.000	0.022	0.022	Quadratic	
02	0.200	0.239	0.039	Wtd linear	
03	0.500	0.453	0.047		C
03	0.500	0.453	0.047		C
04	1.000	0.700	0.024	Linear	
04	1.000	0.700	0.024	Accepted	U
05	5.000	5.011	0.014		n
06	10.000	10.000	0.004		C
06	10.000	10.000	0.004		C
A	2.00100e-12		0.00000		
B	1.43132e-5		-3.09921e-2		



NO	Mass	WOBH	WOBV
01	3674	0	3674
02	10001	0	10001
03	33307	0	33307
04	69368	0	69368
05	330499	0	330499
06	550172	0	550172
07	600557	0	600557
08	622550	0	622550

Relative Absorbance  
 RELATIVE ABSORBANCE

New cal coefficients stored  
 NEW CAL COEFFICIENTS STORED

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Check Standard: 2 Dk25 ppb Seq: 308 14:45:39 15 Jul 2001 HG								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		107.	5.34	5.00	✓	.000		
*** Check Standard: 1 Dk1BLANK Seq: 309 14:46:47 15 Jul 2001 HG								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.019	.500	✓	.000			
*** Sample ID: blank Seq: 310 14:47:55 15 Jul 2001 HG								
Hg	.076	✓	.000	.076				
*** Sample ID: blankspike Seq: 311 14:48:59 15 Jul 2001 HG								
Hg	3.26	✓	.000	3.26				
*** Sample ID: lcs 5x Seq: 312 14:50:23 15 Jul 2001 HG								
Hg	8.04		.000	8.04				
*** Sample ID: 3ref Seq: 313 14:51:57 15 Jul 2001 HG								
	3.11	✓	.000	3.11				
*** Sample ID: 5ref Seq: 314 14:53:04 15 Jul 2001 HG								
Hg	5.21	✓	.000	5.21				
*** Sample ID: f0263-1 Seq: 315 14:54:08 15 Jul 2001 HG								
Hg	2.67		500x .000	2.67				
*** Sample ID: f0263-1a Seq: 316 14:55:11 15 Jul 2001 HG								
Hg	1.78		500x .000	1.78				
*** Sample ID: f0263-1sd Seq: 317 14:56:16 15 Jul 2001 HG								
Hg	2.39		500x .000	2.39				
*** Sample ID: f0263-2 Seq: 318 14:57:21 15 Jul 2001 HG								
Hg	2.05		500x .000	2.05				
*** Sample ID: f0263-3 Seq: 319 14:58:51 15 Jul 2001 HG								
	.385		500x .000	.385				

14:59:57 15 Jul 2001

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Protocol: hganal

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Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Check Standard: 2 Ck25 ppb								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		102.	5.12	5.00	✓	.000		
Seq: 320 14:59:57 15 Jul 2001 HG								
*** Check Standard: 1 Ck1BLANK								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.004	.500		✓	.000		
Seq: 321 15:01:09 15 Jul 2001 HG								
*** Sample ID: f0263-4								
Hg	.846		500x	.000		.846		
Seq: 322 15:02:16 15 Jul 2001 HG								
*** Sample ID: f0263-5								
Hg	2.25		500x	.000		2.25		
Seq: 323 15:03:24 15 Jul 2001 HG								
*** Sample ID: f0263-6								
Hg	35.8		500x	.000		35.8		
Seq: 324 15:04:32 15 Jul 2001 HG								
*** Sample ID: f0263-7								
Hg	26.4		500x	.000		26.4		
Seq: 325 15:05:56 15 Jul 2001 HG								
*** Sample ID: f0263-8								
Hg	1.73		500x	.000		1.73		
Seq: 326 15:07:10 15 Jul 2001 HG								
*** Sample ID: f0263-9								
Hg	2.03		500x	.000		2.03		
Seq: 327 15:08:28 15 Jul 2001 HG								
*** Sample ID: f0263-10								
Hg	3.21		500x	.000		3.21		
Seq: 328 15:09:53 15 Jul 2001 HG								
*** Sample ID: f0263-11								
Hg	1.92		500x	.000		1.92		
Seq: 329 15:11:02 15 Jul 2001 HG								
*** Sample ID: f0263-11s								
Hg	1.95		500x	.000		1.95		
Seq: 330 15:12:07 15 Jul 2001 HG								
*** Sample ID: f0263-11sd								
Hg	1.73		500x	.000		1.73		
Seq: 331 15:13:32 15 Jul 2001 HG								

14:47 15 Jul 2001

Folder: july01  
Protocol: nganal

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Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Check Standard: 2 Ck25 ppb								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		102.	5.12	5.00	✓	.000		
Seq: 332 15:14:47 15 Jul 2001 HG								
*** Check Standard: 1 Ck1BLANK								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.011	.500	✓	.000			
Seq: 333 15:15:55 15 Jul 2001 HG								
*** Sample ID: f0263-12								
			500x					
Hg	2.29		.000	2.29				
Seq: 334 15:17:14 15 Jul 2001 HG								
*** Sample ID: f0263-13								
			500x					
Hg	16.4		.000	16.4				
Seq: 335 15:18:33 15 Jul 2001 HG								
*** Sample ID: f0263-15								
			500x					
Hg	.948		.000	.948				
Seq: 336 15:19:53 15 Jul 2001 HG								
*** Sample ID: g0076-1								
			<del>500x</del>					
Hg	.526		.000	.526	Bq 7/15/01			
Seq: 337 15:21:02 15 Jul 2001 HG								
*** Sample ID: g0076-1a								
			<del>500x</del>					
Hg	3.26		.000	3.26	Bq 7/15/01			
Seq: 338 15:22:09 15 Jul 2001 HG								
*** Sample ID: g0076-1ed								
			<del>500x</del>					
Hg	2.99		.000	2.99	Bq 7/15/01			
Seq: 339 15:23:18 15 Jul 2001 HG								
*** Check Standard: 2 Ck25 ppb								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		97.9	4.87	5.00	✓	.000		
Seq: 340 15:24:08 15 Jul 2001 HG								
*** Check Standard: 1 Ck1BLANK								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		.001	.500	✓	.000			
Seq: 341 15:25:48 15 Jul 2001 HG								
*** Int. Standard: 2 I-01 ppb								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		99.0	4.80	5.00	✓	.000		
Seq: 342 15:42:52 15 Jul 2001 HG								
*** Int. Standard: 1 I-1BLANK								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		.005	.500	✓	.000			
Seq: 343 15:44:10 15 Jul 2001 HG								

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: f0263-3								
				Seq:	344	15:45:37	15 Jul 2001	HG
			100x					
Hg	1.57		.000		1.57			
*** Sample ID: f0263-4								
				Seq:	345	15:47:05	15 Jul 2001	HG
			100x					
Hg	4.28		.000		4.28			
*** Sample ID: f0263-6								
				Seq:	346	15:48:10	15 Jul 2001	HG
			2500x					
Hg	5.35		.000		5.35			
*** Sample ID: f0263-7								
				Seq:	347	15:49:16	15 Jul 2001	HG
			2500x					
Hg	4.21		.000		4.21			
*** Sample ID: f0263-13								
				Seq:	348	15:50:24	15 Jul 2001	HG
			1000x					
Hg	7.57		.000		7.57			
*** Sample ID: <del>f0263-15</del> cup empty by 7/15/01								
			100x	Seq:	349	15:51:29	15 Jul 2001	HG
Hg	-.151		.000		-.151			
*** Check Standard: 2 Ck25 ppb								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		99.0	4.95	5.00	✓	.000		
*** Check Standard: 1 Ck1BLANK								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.014	.500	✓	.000			
*** Check Standard: 2 Ck25 ppb								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		97.9	4.89	5.00	✓	.000		
*** Check Standard: 1 Ck1BLANK								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.015	.500	✓	.000			
*** Sample ID: f0263-15								
				Seq:	354	15:57:16	15 Jul 2001	HG
			100x					
Hg	5.44		.000		5.44			
*** Check Standard: 2 Ck25 ppb								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		94.6	4.73	5.00	✓	.000		

14:00:31 15 Jul 2001

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Line	Conc.	Units	SD/RSD	1	2	3	4	5
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\*\*\* Check Standard: 1 Ck1BLANK      Seq: 356      16:00:31 15 Jul 2001 H6

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.013	.500		.000





#	µg/L	µg/L	Signal	Area	Height	Area	Height	Stored
1			0.1112	0.1115	0.1194	0.0759	0.0863	02:09:35 No
2			0.1142	0.1145	0.1181	0.0746	0.0835	02:12:20 No
Mean:			0.1127					
SD :			0.0021					
%RSD:			1.9					
[Se] Standard number 4 applied. [100.0]								
Correlation Coefficient:			0.99985	Slope: 0.00113				

Calibration data for Se

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0002	-	----	----	----
STD 1	0.0116	10.0	10.2	0.00	4.6
STD 2	0.0232	20.0	20.4	0.00	3.9
STD 3	0.0578	50.0	50.9	0.00	1.6
STD 4	0.1127	100.0	99.4	0.00	1.9
Calib Blank	0.0002	-	----	----	----
Correlation Coefficient:		0.99985	Slope: 0.00113	----	----

Element: Se Seq. No.: 118 AS Loc.: 84 Date: 07/09/2001  
 Sample ID: ICV  
 µL dispensed: 5 from 82, 20 from 84

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.7	26.7	0.0302	0.0305	0.0327	0.0580	0.0664	02:15:05	No
2	25.6	25.6	0.0290	0.0293	0.0320	0.0559	0.0643	02:17:51	No
Mean:	26.1	26.1	0.0296						
SD :	0.77	0.77	0.0009						
%RSD:	2.9	2.9	2.9						

QC value within specified limits.

Element: Se Seq. No.: 119 AS Loc.: 81 Date: 07/09/2001  
 Sample ID: ICB  
 µL dispensed: 5 from 82, 20 from 81

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0007	0.0009	0.0014	0.0470	0.0556	02:20:37	No
2	0.1	0.1	0.0001	0.0004	0.0013	0.0456	0.0525	02:23:22	No
Mean:	0.4	0.4	0.0004						
SD :	0.32	0.32	0.0004						
%RSD:	90.1	90.1	90.1						

QC value within specified limits.

Element: Se Seq. No.: 120 AS Loc.: 1 Date: 07/09/2001  
 Sample ID: 7-5 blk 1-20  
 µL dispensed: 5 from 82, 20 from 1

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0004	0.0007	0.0011	0.0445	0.0521	02:26:04	No
2	0.5	0.5	0.0005	0.0008	0.0016	0.0441	0.0506	02:28:46	No
Mean:	0.4	0.4	0.0005						
SD :	0.07	0.07	0.0001						
%RSD:	16.1	16.1	16.1						

=====  
Element: Se Seq. No.: 121 AS Loc.: 2 Date: 07/09/2001

Sample ID: 7-5 blk 2 1-20

µL dispensed: 5 from 82, 20 from 2

-----  
Repl SampleConc StndConc BlnkCorr Peak Peak Bkgnd Bkgnd Time Peak  
# µg/L µg/L Signal Area Height Area Height  
1 0.3 0.3 0.0004 0.0006 0.0013 0.0445 0.0513 02:31:28 No  
2 0.5 0.5 0.0005 0.0008 0.0015 0.0449 0.0516 02:34:11 No  
Mean: 0.4 0.4 0.0005  
SD : 0.12 0.12 0.0001  
%RSD: 28.9 28.9 28.9  
-----

=====  
Element: Se Seq. No.: 122 AS Loc.: 3 Date: 07/09/2001

Sample ID: 7-5 blkspk 1-20

µL dispensed: 5 from 82, 20 from 3

-----  
Repl SampleConc StndConc BlnkCorr Peak Peak Bkgnd Bkgnd Time Peak  
# µg/L µg/L Signal Area Height Area Height  
1 49.7 49.7 0.0564 0.0566 0.0661 0.0606 0.0667 02:36:53 No  
2 50.3 50.3 0.0570 0.0573 0.0670 0.0601 0.0662 02:39:35 No  
Mean: 50.0 50.0 0.0567  
SD : 0.41 0.41 0.0005  
%RSD: 0.8 0.8 0.8  
-----

=====  
Element: Se Seq. No.: 123 AS Loc.: 4 Date: 07/09/2001

Sample ID: 7-5 blkspk 2 1-20

µL dispensed: 5 from 82, 20 from 4

-----  
Repl SampleConc StndConc BlnkCorr Peak Peak Bkgnd Bkgnd Time Peak  
# µg/L µg/L Signal Area Height Area Height  
1 51.2 51.2 0.0581 0.0583 0.0666 0.0632 0.0686 02:42:18 No  
2 50.1 50.1 0.0569 0.0571 0.0676 0.0594 0.0664 02:45:00 No  
Mean: 50.7 50.7 0.0575  
SD : 0.76 0.76 0.0009  
%RSD: 1.5 1.5 1.5  
-----

=====  
Element: Se Seq. No.: 124 AS Loc.: 5 Date: 07/09/2001

Sample ID: 7-5 lcs 1-100

µL dispensed: 5 from 82, 20 from 5

-----  
Repl SampleConc StndConc BlnkCorr Peak Peak Bkgnd Bkgnd Time Peak  
# µg/L µg/L Signal Area Height Area Height  
1 39.3 39.3 0.0446 0.0448 0.0572 0.0539 0.0590 02:47:42 No  
2 40.9 40.9 0.0464 0.0466 0.0542 0.0615 0.0613 02:50:24 No  
Mean: 40.1 40.1 0.0455  
SD : 1.13 1.13 0.0013  
%RSD: 2.8 2.8 2.8  
-----

=====  
Element: Se Seq. No.: 125 AS Loc.: 6 Date: 07/09/2001

Sample ID: 7-5 lcs 2 1-100

µL dispensed: 5 from 82, 20 from 6

-----  
Repl SampleConc StndConc BlnkCorr Peak Peak Bkgnd Bkgnd Time Peak  
# µg/L µg/L Signal Area Height Area Height  
1 45.1 45.1 0.0511 0.0513 0.0622 0.0593 0.0594 02:53:06 No  
2 45.4 45.4 0.0514 0.0517 0.0591 0.0639 0.0627 02:55:49 No  
Mean: 45.2 45.2 0.0513  
SD : 0.21 0.21 0.0002  
%RSD: 0.5 0.5 0.5  
-----

=====  
 Element: Se Seq. No.: 126 AS Loc.: 7 Date: 07/09/2001  
 Sample ID: clf0263-01 1-20  
 µL dispensed: 5 from 82, 20 from 7

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0007	0.0009	0.0016	0.0445	0.0390	02:58:31	No
2	0.6	0.6	0.0007	0.0009	0.0015	0.0437	0.0365	03:01:13	No
Mean:	0.6	0.6	0.0007						
SD :	0.00	0.00	0.0000						
%RSD:	0.2	0.2	0.2						

=====  
 Element: Se Seq. No.: 127 AS Loc.: 8 Date: 07/09/2001  
 Sample ID: clf0263-01s 1-20  
 µL dispensed: 5 from 82, 20 from 8

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	42.5	42.5	0.0482	0.0485	0.0805	0.0548	0.0397	03:03:55	No
2	42.5	42.5	0.0482	0.0484	0.0810	0.0553	0.0405	03:06:38	No
Mean:	42.5	42.5	0.0482						
SD :	0.05	0.05	0.0001						
%RSD:	0.1	0.1	0.1						

=====  
 Element: Se Seq. No.: 128 AS Loc.: 9 Date: 07/09/2001  
 Sample ID: clf0263-01sd 1-20  
 µL dispensed: 5 from 82, 20 from 9

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	43.9	43.9	0.0498	0.0501	0.0854	0.0602	0.0527	03:09:20	No
2	43.3	43.3	0.0491	0.0494	0.0826	0.0596	0.0514	03:12:02	No
Mean:	43.6	43.6	0.0495						
SD :	0.44	0.44	0.0005						
%RSD:	1.0	1.0	1.0						

=====  
 Element: Se Seq. No.: 129 AS Loc.: 10 Date: 07/09/2001  
 Sample ID: clf0263-01ps 1-20  
 µL dispensed: 5 from 82, 20 from 10

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.5	27.5	0.0312	0.0315	0.0517	0.0515	0.0372	03:14:44	No
2	27.9	27.9	0.0316	0.0318	0.0527	0.0522	0.0377	03:17:27	No
Mean:	27.7	27.7	0.0314						
SD :	0.23	0.23	0.0003						
%RSD:	0.8	0.8	0.8						

=====  
 Element: Se Seq. No.: 130 AS Loc.: 85 Date: 07/09/2001  
 Sample ID: CCV  
 µL dispensed: 5 from 82, 20 from 85

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	48.9	48.9	0.0554	0.0557	0.0620	0.0533	0.0600	03:20:12	No
2	47.1	47.1	0.0534	0.0537	0.0697	0.0529	0.0655	03:22:57	No
Mean:	48.0	48.0	0.0544						
SD :	1.25	1.25	0.0014						

%RSD: 2.6 2.6 2.6  
 QC value within specified limits.

=====  
 Element: Se Seq. No.: 131 AS Loc.: 81 Date: 07/09/2001  
 Sample ID: CCB  
 µL dispensed: 5 from 82, 20 from 81

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0003	0.0005	0.0012	0.0412	0.0478	03:25:43	No
2	0.2	0.2	0.0002	0.0005	0.0013	0.0425	0.0473	03:28:28	No
Mean:	0.2	0.2	0.0003						
SD :	0.03	0.03	0.0000						
%RSD:	12.2	12.2	12.2						

QC value within specified limits. ✓

=====  
 Element: Se Seq. No.: 132 AS Loc.: 11 Date: 07/09/2001  
 Sample ID: clf0263-01psd 1-20  
 µL dispensed: 5 from 82, 20 from 11

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.8	27.8	0.0315	0.0318	0.0508	0.0528	0.0413	03:31:10	No
2	27.7	27.7	0.0314	0.0317	0.0524	0.0533	0.0396	03:33:53	No
Mean:	27.7	27.7	0.0315						
SD :	0.06	0.06	0.0001						
%RSD:	0.2	0.2	0.2						

=====  
 Element: Se Seq. No.: 133 AS Loc.: 12 Date: 07/09/2001  
 Sample ID: clf0263-02 1-20  
 µL dispensed: 5 from 82, 20 from 12

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.9	0.9	0.0011	0.0013	0.0016	0.0502	0.0442	03:36:35	No
2	0.7	0.7	0.0008	0.0011	0.0013	0.0503	0.0436	03:39:17	No
Mean:	0.8	0.8	0.0009						
SD :	0.16	0.16	0.0002						
%RSD:	19.2	19.2	19.2						

=====  
 Element: Se Seq. No.: 134 AS Loc.: 13 Date: 07/09/2001  
 Sample ID: clf0263-03 1-20  
 µL dispensed: 5 from 82, 20 from 13

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.9	0.9	0.0011	0.0013	0.0026	0.0720	0.0829	03:42:00	No
2	1.1	1.1	0.0012	0.0015	0.0024	0.0710	0.0794	03:44:42	No
Mean:	1.0	1.0	0.0011						
SD :	0.09	0.09	0.0001						
%RSD:	9.4	9.4	9.4						

=====  
 Element: Se Seq. No.: 135 AS Loc.: 14 Date: 07/09/2001  
 Sample ID: clf0263-04 1-20  
 µL dispensed: 5 from 82, 20 from 14

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
--------	-----------------	---------------	-----------------	-----------	-------------	------------	--------------	------	-------------

1	0.7	0.7	0.0008	0.0010	0.0010	0.0470	0.0289	03:47:24	No
2	0.6	0.6	0.0007	0.0009	0.0014	0.0465	0.0297	03:50:06	No
Mean:	0.6	0.6	0.0007						
SD :	0.08	0.08	0.0001						
%RSD:	12.0	12.0	12.0						

=====  
 Element: Se Seq. No.: 136 AS Loc.: 15 Date: 07/09/2001  
 Sample ID: clf0263-05 1-20  
 µL dispensed: 5 from 82, 20 from 15  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.2	1.2	0.0014	0.0017	0.0028	0.0821	0.0932	03:52:48	No
2	0.9	0.9	0.0010	0.0013	0.0026	0.0822	0.0930	03:55:31	No
Mean:	1.1	1.1	0.0012						
SD :	0.25	0.25	0.0003						
%RSD:	23.8	23.8	23.8						

*rerun*

=====  
 Element: Se Seq. No.: 137 AS Loc.: 16 Date: 07/09/2001  
 Sample ID: clf0263-06 1-20  
 µL dispensed: 5 from 82, 20 from 16  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.7	2.7	0.0030	0.0033	0.0022	0.2603	0.1583	03:58:14	No
2	2.5	2.5	0.0029	0.0031	0.0028	0.2755	0.1577	04:00:55	No
Mean:	2.6	2.6	0.0029						
SD :	0.09	0.09	0.0001						
%RSD:	3.6	3.6	3.6						

=====  
 Element: Se Seq. No.: 138 AS Loc.: 17 Date: 07/09/2001  
 Sample ID: clf0263-07 1-20  
 µL dispensed: 5 from 82, 20 from 17  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.5	3.5	0.0040	0.0042	0.0023	0.2892	0.1584	04:03:37	No
2	3.2	3.2	0.0036	0.0039	0.0023	0.2948	0.1596	04:06:20	No
Mean:	3.3	3.3	0.0038						
SD :	0.22	0.22	0.0002						
%RSD:	6.6	6.6	6.6						

=====  
 Element: Se Seq. No.: 139 AS Loc.: 18 Date: 07/09/2001  
 Sample ID: clf0263-08 1-20  
 µL dispensed: 5 from 82, 20 from 18  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.8	0.8	0.0009	0.0012	0.0016	0.0850	0.0700	04:09:02	No
2	1.0	1.0	0.0012	0.0014	0.0014	0.0761	0.0687	04:11:44	No
Mean:	0.9	0.9	0.0011						
SD :	0.14	0.14	0.0002						
%RSD:	15.2	15.2	15.2						

=====  
 Element: Se Seq. No.: 140 AS Loc.: 19 Date: 07/09/2001  
 Sample ID: clf0263-09 1-20  
 µL dispensed: 5 from 82, 20 from 19  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.4	1.4	0.0016	0.0018	0.0021	0.0884	0.0832	04:14:27	No
2	1.2	1.2	0.0014	0.0016	0.0019	0.0888	0.0811	04:17:09	No
Mean:	1.3	1.3	0.0015						
SD :	0.15	0.15	0.0002						
%RSD:	11.5	11.5	11.5						

=====  
 Element: Se Seq. No.: 141 AS Loc.: 20 Date: 07/09/2001  
 Sample ID: clf0263-10 1-20  
 µL dispensed: 5 from 82, 20 from 20  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.2	1.2	0.0014	0.0016	0.0022	0.0947	0.0880	04:19:51	No
2	1.3	1.3	0.0015	0.0017	0.0024	0.0918	0.0874	04:22:33	No
Mean:	1.3	1.3	0.0014						
SD :	0.03	0.03	0.0000						
%RSD:	2.7	2.7	2.7						

=====  
 Element: Se Seq. No.: 142 AS Loc.: 85 Date: 07/09/2001  
 Sample ID: CCV  
 µL dispensed: 5 from 82, 20 from 85  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	47.3	47.3	0.0536	0.0538	0.0627	0.0487	0.0332	04:25:18	No
2	47.9	47.9	0.0543	0.0545	0.0631	0.0479	0.0367	04:28:04	No
Mean:	47.6	47.6	0.0539						
SD :	0.43	0.43	0.0005						
%RSD:	0.9	0.9	0.9						

QC value within specified limits. ✓

=====  
 Element: Se Seq. No.: 143 AS Loc.: 81 Date: 07/09/2001  
 Sample ID: CCB  
 µL dispensed: 5 from 82, 20 from 81  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0006	0.0008	0.0010	0.0352	0.0287	04:30:49	No
2	0.4	0.4	0.0005	0.0008	0.0013	0.0381	0.0336	04:33:34	No
Mean:	0.5	0.5	0.0005						
SD :	0.04	0.04	0.0000						
%RSD:	9.0	9.0	9.0						

QC value within specified limits. ✓

=====  
 Element: Se Seq. No.: 144 AS Loc.: 21 Date: 07/09/2001  
 Sample ID: clf0263-11 1-20  
 µL dispensed: 5 from 82, 20 from 21  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0004	0.0007	0.0008	0.0441	0.0269	04:36:18	No
2	0.6	0.6	0.0007	0.0009	0.0009	0.0435	0.0255	04:39:01	No
Mean:	0.5	0.5	0.0006						
SD :	0.13	0.13	0.0002						
%RSD:	27.4	27.4	27.4						

Element: Se Seq. No.: 145 AS Loc.: 22 Date: 07/09/2001  
 Sample ID: clf0263-12 1-20  
 µL dispensed: 5 from 82, 20 from 22

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.0	1.0	0.0011	0.0014	0.0021	0.0742	0.0784	04:41:44	No
2	1.1	1.1	0.0012	0.0014	0.0021	0.0754	0.0804	04:44:27	No
Mean:	1.0	1.0	0.0012						
SD :	0.04	0.04	0.0000						
%RSD:	3.7	3.7	3.7						

Element: Se Seq. No.: 146 AS Loc.: 23 Date: 07/09/2001  
 Sample ID: clf0263-13 1-20  
 µL dispensed: 5 from 82, 20 from 23

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.9	1.9	0.0022	0.0025	0.0021	0.1411	0.1027	04:47:11	No
2	2.0	2.0	0.0023	0.0026	0.0020	0.1460	0.1023	04:49:54	No
Mean:	2.0	2.0	0.0023						
SD :	0.07	0.07	0.0001						
%RSD:	3.6	3.6	3.6						

Element: Se Seq. No.: 147 AS Loc.: 24 Date: 07/09/2001  
 Sample ID: clf0263-15 1-20  
 µL dispensed: 5 from 82, 20 from 24

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0002	0.0005	0.0008	0.0428	0.0208	04:52:37	No
2	0.5	0.5	0.0006	0.0008	0.0010	0.0394	0.0209	04:55:20	No
Mean:	0.3	0.3	0.0004						
SD :	0.20	0.20	0.0002						
%RSD:	58.7	58.7	58.7						

Element: Se Seq. No.: 148 AS Loc.: 25 Date: 07/09/2001  
 Sample ID: clg0003-12 1-20  
 µL dispensed: 5 from 82, 20 from 25

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.0	1.0	0.0011	0.0014	0.0012	0.0487	0.0262	04:58:04	No
2	0.8	0.8	0.0009	0.0012	0.0014	0.0497	0.0274	05:00:47	No
Mean:	0.9	0.9	0.0010						
SD :	0.13	0.13	0.0001						
%RSD:	14.1	14.1	14.1						

Element: Se Seq. No.: 149 AS Loc.: 26 Date: 07/09/2001  
 Sample ID: clg0003-12s 1-20  
 µL dispensed: 5 from 82, 20 from 26

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	37.9	37.9	0.0430	0.0433	0.0488	0.0627	0.0337	05:03:30	No
2	37.6	37.6	0.0426	0.0429	0.0496	0.0632	0.0349	05:06:14	No
Mean:	37.8	37.8	0.0428						
SD :	0.26	0.26	0.0003						
%RSD:	0.7	0.7	0.7						

=====  
Element: Se    Seq. No.: 150        AS Loc.: 27    Date: 07/09/2001  
Sample ID: clg0003-12sd 1-20  
µL dispensed: 5 from 82, 20 from 27  
=====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.1	25.1	0.0285	0.0287	0.0343	0.0598	0.0329	05:08:57	No
2	25.9	25.9	0.0293	0.0296	0.0341	0.0606	0.0335	05:11:41	No
Mean:	25.5	25.5	0.0289						
SD :	0.52	0.52	0.0006						
%RSD:	2.1	2.1	2.1						

=====  
Element: Se    Seq. No.: 151        AS Loc.: 28    Date: 07/09/2001  
Sample ID: clg0003-12ps 1-20  
µL dispensed: 5 from 82, 20 from 28  
=====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	28.3	28.3	0.0321	0.0323	0.0394	0.0651	0.0371	05:14:24	No
2	28.5	28.5	0.0324	0.0326	0.0398	0.0627	0.0363	05:17:08	No
Mean:	28.4	28.4	0.0322						
SD :	0.17	0.17	0.0002						
%RSD:	0.6	0.6	0.6						

=====  
Element: Se    Seq. No.: 152        AS Loc.: 29    Date: 07/09/2001  
Sample ID: clg0003-12psd 1-20  
µL dispensed: 5 from 82, 20 from 29  
=====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	29.0	29.0	0.0329	0.0331	0.0402	0.0663	0.0381	05:19:51	No
2	28.8	28.8	0.0326	0.0329	0.0404	0.0673	0.0391	05:22:34	No
Mean:	28.9	28.9	0.0327						
SD :	0.15	0.15	0.0002						
%RSD:	0.5	0.5	0.5						

=====  
Element: Se    Seq. No.: 153        AS Loc.: 30    Date: 07/09/2001  
Sample ID: clg0003-13 1-20  
µL dispensed: 5 from 82, 20 from 30  
=====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.8	0.8	0.0009	0.0011	0.0014	0.0525	0.0301	05:25:18	No
2	0.4	0.4	0.0005	0.0007	0.0013	0.0527	0.0303	05:28:01	No
Mean:	0.6	0.6	0.0007						
SD :	0.24	0.24	0.0003						
%RSD:	40.4	40.4	40.4						

=====  
Element: Se    Seq. No.: 154        AS Loc.: 85    Date: 07/09/2001  
Sample ID: CCV  
µL dispensed: 5 from 82, 20 from 85  
=====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	49.4	49.4	0.0560	0.0563	0.0651	0.0522	0.0488	05:30:46	No
2	47.8	47.8	0.0542	0.0544	0.0651	0.0482	0.0472	05:33:31	No
Mean:	48.6	48.6	0.0551						
SD :	1.17	1.17	0.0013						
%RSD:	2.4	2.4	2.4						

QC value within specified limits. ✓

=====  
Element: Se Seq. No.: 155 AS Loc.: 81 Date: 07/09/2001

Sample ID: CCB

µL dispensed: 5 from 82, 20 from 81

-----  
Repl SampleConc StndConc BlnkCorr Peak Peak Bkgnd Bkgnd Time Peak  
# µg/L µg/L Signal Area Height Area Height Stored  
1 0.5 0.5 0.0006 0.0009 0.0012 0.0375 0.0377 05:36:17 No  
2 0.2 0.2 0.0003 0.0005 0.0010 0.0354 0.0345 05:39:02 No  
Mean: 0.4 0.4 0.0004  
SD : 0.21 0.21 0.0002  
%RSD: 52.2 52.2 52.2  
QC value within specified limits. ✓

=====  
Element: Se Seq. No.: 156 AS Loc.: 31 Date: 07/09/2001

Sample ID: clg0003-14 1-20

µL dispensed: 5 from 82, 20 from 31

-----  
Repl SampleConc StndConc BlnkCorr Peak Peak Bkgnd Bkgnd Time Peak  
# µg/L µg/L Signal Area Height Area Height Stored  
1 1.0 1.0 0.0012 0.0014 0.0018 0.0561 0.0385 05:41:45 No  
2 1.2 1.2 0.0013 0.0016 0.0021 0.0560 0.0376 05:44:29 No  
Mean: 1.1 1.1 0.0013  
SD : 0.10 0.10 0.0001  
%RSD: 9.4 9.4 9.4

=====  
Element: Se Seq. No.: 157 AS Loc.: 32 Date: 07/09/2001

Sample ID: clg0003-17 1-20

µL dispensed: 5 from 82, 20 from 32

-----  
Repl SampleConc StndConc BlnkCorr Peak Peak Bkgnd Bkgnd Time Peak  
# µg/L µg/L Signal Area Height Area Height Stored  
1 0.9 0.9 0.0010 0.0013 0.0017 0.0569 0.0326 05:47:12 No  
2 1.0 1.0 0.0012 0.0014 0.0016 0.0566 0.0329 05:49:55 No  
Mean: 1.0 1.0 0.0011  
SD : 0.09 0.09 0.0001  
%RSD: 8.8 8.8 8.8

=====  
Element: Se Seq. No.: 158 AS Loc.: 33 Date: 07/09/2001

Sample ID: clg0003-18 1-20

µL dispensed: 5 from 82, 20 from 33

-----  
Repl SampleConc StndConc BlnkCorr Peak Peak Bkgnd Bkgnd Time Peak  
# µg/L µg/L Signal Area Height Area Height Stored  
1 1.4 1.4 0.0016 0.0018 0.0021 0.0498 0.0360 05:52:39 No  
2 1.3 1.3 0.0014 0.0017 0.0023 0.0487 0.0359 05:55:22 No  
Mean: 1.3 1.3 0.0015  
SD : 0.10 0.10 0.0001  
%RSD: 7.5 7.5 7.5

=====  
Element: Se Seq. No.: 159 AS Loc.: 34 Date: 07/09/2001

Sample ID: clg0003-25 1-20

µL dispensed: 5 from 82, 20 from 34

-----  
Repl SampleConc StndConc BlnkCorr Peak Peak Bkgnd Bkgnd Time Peak  
# µg/L µg/L Signal Area Height Area Height Stored  
1 1.0 1.0 0.0011 0.0014 0.0014 0.0645 0.0334 05:58:05 No  
2 0.8 0.8 0.0009 0.0011 0.0014 0.0652 0.0333 06:00:48 No  
Mean: 0.9 0.9 0.0010  
SD : 0.17 0.17 0.0002  
%RSD: 19.0 19.0 19.0

=====  
Element: Se Seq. No.: 160 AS Loc.: 35 Date: 07/09/2001  
Sample ID: clg0016-01 1-20  
µL dispensed: 5 from 82, 20 from 35  
-----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.2	2.2	0.0025	0.0027	0.0036	0.1062	0.0801	06:03:32	No
2	2.0	2.0	0.0022	0.0025	0.0033	0.1088	0.0816	06:06:15	No
Mean:	2.1	2.1	0.0024						
SD :	0.16	0.16	0.0002						
%RSD:	7.9	7.9	7.9						

=====  
Element: Se Seq. No.: 161 AS Loc.: 36 Date: 07/09/2001  
Sample ID: clg0016-01s 1-20  
µL dispensed: 5 from 82, 20 from 36  
-----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	34.2	34.2	0.0388	0.0391	0.0417	0.1258	0.0908	06:08:58	No
2	34.4	34.4	0.0390	0.0393	0.0417	0.1289	0.0915	06:11:42	No
Mean:	34.3	34.3	0.0389						
SD :	0.13	0.13	0.0001						
%RSD:	0.4	0.4	0.4						

=====  
Element: Se Seq. No.: 162 AS Loc.: 37 Date: 07/09/2001  
Sample ID: clg0016-01sd 1-20  
µL dispensed: 5 from 82, 20 from 37  
-----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.9	19.9	0.0225	0.0228	0.0243	0.0888	0.0646	06:14:25	No
2	19.7	19.7	0.0224	0.0226	0.0237	0.0887	0.0647	06:17:08	No
Mean:	19.8	19.8	0.0224						
SD :	0.12	0.12	0.0001						
%RSD:	0.6	0.6	0.6						

=====  
Element: Se Seq. No.: 163 AS Loc.: 38 Date: 07/09/2001  
Sample ID: clg0016-01ps 1-20  
µL dispensed: 5 from 82, 20 from 38  
-----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	29.7	29.7	0.0337	0.0339	0.0359	0.1182	0.0822	06:19:51	No
2	29.6	29.6	0.0335	0.0338	0.0365	0.1148	0.0821	06:22:35	No
Mean:	29.6	29.6	0.0336						
SD :	0.10	0.10	0.0001						
%RSD:	0.3	0.3	0.3						

=====  
Element: Se Seq. No.: 164 AS Loc.: 39 Date: 07/09/2001  
Sample ID: clg0016-01psd 1-20  
µL dispensed: 5 from 82, 20 from 39  
-----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	29.7	29.7	0.0337	0.0339	0.0358	0.1162	0.0808	06:25:18	No
2	29.3	29.3	0.0332	0.0335	0.0359	0.1167	0.0797	06:28:02	No
Mean:	29.5	29.5	0.0335						
SD :	0.28	0.28	0.0003						
%RSD:	1.0	1.0	1.0						

=====  
 Element: Se    Seq. No.: 165    AS Loc.: 40    Date: 07/09/2001  
 Sample ID: clg0016-02 1-20  
 µL dispensed: 5 from 82, 20 from 40  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.5	1.5	0.0017	0.0020	0.0027	0.0771	0.0551	06:30:45	No
2	1.3	1.3	0.0015	0.0018	0.0023	0.0700	0.0506	06:33:29	No
Mean:	1.4	1.4	0.0016						
SD :	0.13	0.13	0.0002						
%RSD:	9.3	9.3	9.3						

=====  
 Element: Se    Seq. No.: 166    AS Loc.: 85    Date: 07/09/2001  
 Sample ID: CCV  
 µL dispensed: 5 from 82, 20 from 85  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	48.4	48.4	0.0549	0.0552	0.0648	0.0508	0.0463	06:36:14	No
2	48.3	48.3	0.0547	0.0550	0.0664	0.0490	0.0474	06:38:59	No
Mean:	48.3	48.3	0.0548						
SD :	0.12	0.12	0.0001						
%RSD:	0.3	0.3	0.3						

QC value within specified limits. ✓

=====  
 Element: Se    Seq. No.: 167    AS Loc.: 81    Date: 07/09/2001  
 Sample ID: CCB  
 µL dispensed: 5 from 82, 20 from 81  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0005	0.0007	0.0015	0.0372	0.0384	06:41:46	No
2	0.4	0.4	0.0005	0.0007	0.0012	0.0417	0.0437	06:44:31	No
Mean:	0.4	0.4	0.0005						
SD :	0.02	0.02	0.0000						
%RSD:	3.8	3.8	3.8						

QC value within specified limits. ✓

=====  
 Element: Se    Seq. No.: 168    AS Loc.: 41    Date: 07/09/2001  
 Sample ID: clg0016-03 1-20  
 µL dispensed: 5 from 82, 20 from 41  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.1	3.1	0.0035	0.0037	0.0042	0.1268	0.0906	06:47:14	No
2	3.0	3.0	0.0034	0.0037	0.0046	0.1290	0.0921	06:49:57	No
Mean:	3.1	3.1	0.0035						
SD :	0.04	0.04	0.0000						
%RSD:	1.3	1.3	1.3						

=====  
 Element: Se    Seq. No.: 169    AS Loc.: 42    Date: 07/09/2001  
 Sample ID: clg0016-04 1-20  
 µL dispensed: 5 from 82, 20 from 42  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.8	2.8	0.0032	0.0034	0.0038	0.1012	0.0761	06:52:41	No
2	2.9	2.9	0.0033	0.0036	0.0040	0.1073	0.0795	06:55:24	No

Mean: 2.9 2.9 0.0032  
 SD : 0.10 0.10 0.0001  
 %RSD: 3.5 3.5 3.5

=====  
 Element: Se Seq. No.: 170 AS Loc.: 43 Date: 07/09/2001  
 Sample ID: clg0016-05 1-20  
 µL dispensed: 5 from 82, 20 from 43

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	6.2	6.2	0.0070	0.0072	0.0048	0.2232	0.1255	06:58:07	No
2	5.9	5.9	0.0067	0.0070	0.0049	0.2370	0.1233	07:00:51	No
Mean:	6.0	6.0	0.0069						
SD :	0.17	0.17	0.0002						
%RSD:	2.8	2.8	2.8						

=====  
 Element: Se Seq. No.: 171 AS Loc.: 44 Date: 07/09/2001  
 Sample ID: 7-3 blk 1-5  
 µL dispensed: 5 from 82, 20 from 44

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0005	0.0007	0.0011	0.0490	0.0328	07:03:34	No
2	0.7	0.7	0.0008	0.0010	0.0011	0.0436	0.0363	07:06:18	No
Mean:	0.6	0.6	0.0006						
SD :	0.20	0.20	0.0002						
%RSD:	36.7	36.7	36.7						

=====  
 Element: Se Seq. No.: 172 AS Loc.: 45 Date: 07/09/2001  
 Sample ID: 7-3 blk 2 1-5  
 µL dispensed: 5 from 82, 20 from 45

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0007	0.0010	0.0012	0.0403	0.0363	07:09:01	No
2	0.6	0.6	0.0007	0.0010	0.0013	0.0401	0.0376	07:11:44	No
Mean:	0.6	0.6	0.0007						
SD :	0.01	0.01	0.0000						
%RSD:	2.2	2.2	2.2						

=====  
 Element: Se Seq. No.: 173 AS Loc.: 46 Date: 07/09/2001  
 Sample ID: 7-3 blkspk 1-5  
 µL dispensed: 5 from 82, 20 from 46

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.0	5.0	0.0057	0.0060	0.0073	0.0437	0.0313	07:14:27	No
2	5.4	5.4	0.0061	0.0064	0.0075	0.0451	0.0325	07:17:11	No
Mean:	5.2	5.2	0.0059						
SD :	0.24	0.24	0.0003						
%RSD:	4.7	4.7	4.7						

=====  
 Element: Se Seq. No.: 174 AS Loc.: 47 Date: 07/09/2001  
 Sample ID: 7-3 blkspk 2 1-5  
 µL dispensed: 5 from 82, 20 from 47

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
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1	4.9	4.9	0.0055	0.0058	0.0069	0.0455	0.0335	07:19:54	No
2	4.9	4.9	0.0056	0.0058	0.0072	0.0458	0.0336	07:22:37	No
Mean:	4.9	4.9	0.0056						
SD :	0.02	0.02	0.0000						
%RSD:	0.5	0.5	0.5						

Element: Se Seq. No.: 175 AS Loc.: 48 Date: 07/09/2001  
 Sample ID: 7-3 lcs 1-20  
 µL dispensed: 5 from 82, 20 from 48

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	50.2	50.2	0.0570	0.0572	0.0690	0.0572	0.0518	07:25:21	No
2	48.0	48.0	0.0544	0.0547	0.0692	0.0534	0.0505	07:28:04	No
Mean:	49.1	49.1	0.0557						
SD :	1.58	1.58	0.0018						
%RSD:	3.2	3.2	3.2						

Element: Se Seq. No.: 176 AS Loc.: 49 Date: 07/09/2001  
 Sample ID: 7-3 lcs 2 1-20  
 µL dispensed: 5 from 82, 20 from 49

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	48.9	48.9	0.0554	0.0556	0.0684	0.0576	0.0533	07:30:47	No
2	50.2	50.2	0.0569	0.0572	0.0697	0.0557	0.0524	07:33:30	No
Mean:	49.5	49.5	0.0562						
SD :	0.97	0.97	0.0011						
%RSD:	1.9	1.9	1.9						

Element: Se Seq. No.: 177 AS Loc.: 50 Date: 07/09/2001  
 Sample ID: clf0140-04 1-5  
 µL dispensed: 5 from 82, 20 from 50

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.7	0.7	0.0008	0.0010	0.0015	0.0440	0.0355	07:36:14	No
2	0.3	0.3	0.0003	0.0006	0.0017	0.0397	0.0312	07:38:57	No
Mean:	0.5	0.5	0.0006						
SD :	0.29	0.29	0.0003						
%RSD:	58.2	58.2	58.2						

Element: Se Seq. No.: 178 AS Loc.: 85 Date: 07/09/2001  
 Sample ID: CCV  
 µL dispensed: 5 from 82, 20 from 85

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	48.6	48.6	0.0551	0.0554	0.0637	0.0506	0.0491	07:41:43	No
2	47.9	47.9	0.0543	0.0546	0.0637	0.0510	0.0506	07:44:28	No
Mean:	48.3	48.3	0.0547						
SD :	0.51	0.51	0.0006						
%RSD:	1.1	1.1	1.1						

QC value within specified limits. ✓

Element: Se Seq. No.: 179 AS Loc.: 81 Date: 07/09/2001  
 Sample ID: CCB  
 µL dispensed: 5 from 82, 20 from 81

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.7	0.7	0.0008	0.0011	0.0015	0.0416	0.0438	07:47:14	No
2	0.9	0.9	0.0011	0.0013	0.0014	0.0430	0.0412	07:49:59	No
Mean:	0.8	0.8	0.0009						
SD :	0.16	0.16	0.0002						
%RSD:	18.9	18.9	18.9						

QC value within specified limits. ✓

=====  
 Element: Se Seq. No.: 180 AS Loc.: 51 Date: 07/09/2001  
 Sample ID: clf0140-04s 1-5  
 µL dispensed: 5 from 82, 20 from 51

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.4	4.4	0.0050	0.0053	0.0055	0.0448	0.0311	07:52:42	No
2	4.5	4.5	0.0051	0.0053	0.0055	0.0462	0.0331	07:55:26	No
Mean:	4.5	4.5	0.0051						
SD :	0.05	0.05	0.0001						
%RSD:	1.1	1.1	1.1						

=====  
 Element: Se Seq. No.: 181 AS Loc.: 52 Date: 07/09/2001  
 Sample ID: clf0140-04sd 1-5  
 µL dispensed: 5 from 82, 20 from 52

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.2	4.2	0.0048	0.0050	0.0052	0.0432	0.0298	07:58:09	No
2	4.4	4.4	0.0050	0.0052	0.0056	0.0440	0.0306	08:00:53	No
Mean:	4.3	4.3	0.0049						
SD :	0.15	0.15	0.0002						
%RSD:	3.5	3.5	3.5						

=====  
 Element: Se Seq. No.: 182 AS Loc.: 53 Date: 07/09/2001  
 Sample ID: clf0140-04ps 1-5  
 µL dispensed: 5 from 82, 20 from 53

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.7	27.7	0.0314	0.0317	0.0382	0.0499	0.0402	08:03:36	No
2	27.8	27.8	0.0315	0.0318	0.0389	0.0486	0.0385	08:06:19	No
Mean:	27.7	27.7	0.0315						
SD :	0.08	0.08	0.0001						
%RSD:	0.3	0.3	0.3						

=====  
 Element: Se Seq. No.: 183 AS Loc.: 54 Date: 07/09/2001  
 Sample ID: clf0140-04psd 1-5  
 µL dispensed: 5 from 82, 20 from 54

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.2	26.2	0.0297	0.0300	0.0378	0.0444	0.0362	08:09:02	No
2	27.1	27.1	0.0308	0.0310	0.0381	0.0496	0.0403	08:11:46	No
Mean:	26.7	26.7	0.0302						
SD :	0.66	0.66	0.0007						
%RSD:	2.5	2.5	2.5						

Element: Se Seq. No.: 184 AS Loc.: 55 Date: 07/09/2001  
 Sample ID: clf0242-01 1-5  
 µL dispensed: 5 from 82, 20 from 55

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0005	0.0007	0.0015	0.0430	0.0384	08:14:29	No
2	0.3	0.3	0.0003	0.0006	0.0012	0.0441	0.0384	08:17:12	No
Mean:	0.4	0.4	0.0004						
SD :	0.08	0.08	0.0001						
%RSD:	21.4	21.4	21.4						

Element: Se Seq. No.: 185 AS Loc.: 56 Date: 07/09/2001  
 Sample ID: clf0242-01s 1-5  
 µL dispensed: 5 from 82, 20 from 56

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.7	4.7	0.0054	0.0056	0.0066	0.0406	0.0299	08:19:55	No
2	4.8	4.8	0.0055	0.0057	0.0069	0.0436	0.0324	08:22:39	No
Mean:	4.8	4.8	0.0054						
SD :	0.08	0.08	0.0001						
%RSD:	1.6	1.6	1.6						

Element: Se Seq. No.: 186 AS Loc.: 57 Date: 07/09/2001  
 Sample ID: clf0242-01sd 1-5  
 µL dispensed: 5 from 82, 20 from 57

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.4	4.4	0.0049	0.0052	0.0064	0.0423	0.0316	08:25:23	No
2	4.4	4.4	0.0050	0.0052	0.0065	0.0413	0.0309	08:28:06	No
Mean:	4.4	4.4	0.0050						
SD :	0.02	0.02	0.0000						
%RSD:	0.4	0.4	0.4						

Element: Se Seq. No.: 187 AS Loc.: 58 Date: 07/09/2001  
 Sample ID: clf0242-01ps 1-5  
 µL dispensed: 5 from 82, 20 from 58

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.6	24.6	0.0279	0.0281	0.0364	0.0485	0.0450	08:30:50	No
2	25.5	25.5	0.0289	0.0291	0.0358	0.0498	0.0455	08:33:33	No
Mean:	25.0	25.0	0.0284						
SD :	0.61	0.61	0.0007						
%RSD:	2.4	2.4	2.4						

Element: Se Seq. No.: 188 AS Loc.: 59 Date: 07/09/2001  
 Sample ID: clf0242-01psd 1-5  
 µL dispensed: 5 from 82, 20 from 59

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.5	25.5	0.0289	0.0292	0.0373	0.0455	0.0421	08:36:16	No
2	26.0	26.0	0.0295	0.0298	0.0369	0.0506	0.0470	08:38:59	No
Mean:	25.8	25.8	0.0292						
SD :	0.36	0.36	0.0004						
%RSD:	1.4	1.4	1.4						

=====  
Element: Se    Seq. No.: 189    AS Loc.: 60    Date: 07/09/2001  
Sample ID: clf0263-14 1-5  
µL dispensed: 5 from 82, 20 from 60  
-----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0003	0.0005	0.0013	0.0442	0.0416	08:41:43	No
2	0.3	0.3	0.0004	0.0006	0.0011	0.0441	0.0417	08:44:27	No
Mean:	0.3	0.3	0.0003						
SD :	0.08	0.08	0.0001						
%RSD:	29.1	29.1	29.1						

=====  
Element: Se    Seq. No.: 190    AS Loc.: 85    Date: 07/09/2001  
Sample ID: CCV  
µL dispensed: 5 from 82, 20 from 85  
-----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	49.4	49.4	0.0560	0.0563	0.0648	0.0575	0.0541	08:47:13	No
2	50.1	50.1	0.0568	0.0570	0.0681	0.0582	0.0589	08:49:58	No
Mean:	49.7	49.7	0.0564						
SD :	0.45	0.45	0.0005						
%RSD:	0.9	0.9	0.9						

QC value within specified limits. ✓

=====  
Element: Se    Seq. No.: 191    AS Loc.: 81    Date: 07/09/2001  
Sample ID: CCB  
µL dispensed: 5 from 82, 20 from 81  
-----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0005	0.0007	0.0014	0.0454	0.0452	08:52:44	No
2	0.3	0.3	0.0004	0.0006	0.0012	0.0449	0.0463	08:55:29	No
Mean:	0.4	0.4	0.0004						
SD :	0.07	0.07	0.0001						
%RSD:	20.0	20.0	20.0						

QC value within specified limits. ✓

=====  
Element: Se    Seq. No.: 192    AS Loc.: 61    Date: 07/09/2001  
Sample ID: clf0263-14s 1-5  
µL dispensed: 5 from 82, 20 from 61  
-----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.2	5.2	0.0059	0.0062	0.0076	0.0469	0.0352	08:58:13	No
2	5.3	5.3	0.0061	0.0063	0.0076	0.0431	0.0328	09:00:58	No
Mean:	5.3	5.3	0.0060						
SD :	0.07	0.07	0.0001						
%RSD:	1.4	1.4	1.4						

=====  
Element: Se    Seq. No.: 193    AS Loc.: 62    Date: 07/09/2001  
Sample ID: clf0263-14sd 1-5  
µL dispensed: 5 from 82, 20 from 62  
-----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.0	5.0	0.0057	0.0059	0.0073	0.0415	0.0312	09:03:42	No
2	4.9	4.9	0.0055	0.0058	0.0074	0.0425	0.0318	09:06:27	No
Mean:	4.9	4.9	0.0056						
SD :	0.07	0.07	0.0001						

%RSD: 1.4 1.4 1.4

=====  
 Element: Se Seq. No.: 194 AS Loc.: 63 Date: 07/09/2001  
 Sample ID: clf0263-14ps 1-5  
 µL dispensed: 5 from 82, 20 from 63

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	28.1	28.1	0.0318	0.0321	0.0396	0.0502	0.0486	09:09:11	No
2	27.0	27.0	0.0306	0.0309	0.0394	0.0466	0.0455	09:11:55	No
Mean:	27.5	27.5	0.0312						
SD :	0.74	0.74	0.0008						
%RSD:	2.7	2.7	2.7						

=====  
 Element: Se Seq. No.: 195 AS Loc.: 64 Date: 07/09/2001  
 Sample ID: clf0263-14psd 1-5  
 µL dispensed: 5 from 82, 20 from 64

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.0	26.0	0.0295	0.0297	0.0394	0.0455	0.0466	09:14:40	No
2	27.6	27.6	0.0313	0.0316	0.0383	0.0499	0.0494	09:17:24	No
Mean:	26.8	26.8	0.0304						
SD :	1.14	1.14	0.0013						
%RSD:	4.3	4.3	4.3						

=====  
 Element: Se Seq. No.: 196 AS Loc.: 85 Date: 07/09/2001  
 Sample ID: CCV  
 µL dispensed: 5 from 82, 20 from 85

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	49.6	49.6	0.0563	0.0565	0.0676	0.0550	0.0534	09:20:09	No
2	50.9	50.9	0.0578	0.0580	0.0659	0.0586	0.0596	09:22:55	No
Mean:	50.3	50.3	0.0570						
SD :	0.93	0.93	0.0011						
%RSD:	1.8	1.8	1.8						

QC value within specified limits. ✓

=====  
 Element: Se Seq. No.: 197 AS Loc.: 81 Date: 07/09/2001  
 Sample ID: CCB  
 µL dispensed: 5 from 82, 20 from 81

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0006	0.0008	0.0013	0.0461	0.0471	09:25:40	No
2	0.5	0.5	0.0005	0.0008	0.0014	0.0455	0.0465	09:28:25	No
Mean:	0.5	0.5	0.0006						
SD :	0.03	0.03	0.0000						
%RSD:	6.6	6.6	6.6						

QC value within specified limits. ✓



## MEMORANDUM

To: (File)

From: Elissa Miller (Reviewer); Ohio EPA Legal Office.

Date: January 24, 2023

These files were reviewed to determine whether records contained herein are confidential or otherwise exempt from the disclosure obligations of Ohio Revised Code (ORC) 149.43

**X** **All files are public**

No records were removed based on this review.

       **Some files are not public**

Records were removed or redacted for the reasons given below:

- Attorney- Client Privilege**, State ex rel. Leslie v. Ohio Hous. Fin. Agency, 105 Ohio St.3d 261, 265 (2005).
- **Attorney Work Product**, Squire, Sanders & Dempsey, L.L.P. v. Givaudan Flavors Corp., 127 Ohio St.3d 161 (2010).
- **Confidential Law Enforcement Investigatory Records**, ORC 149.43(A)(1)(h).
- **Social Security Numbers**, State ex rel. Office of Montgomery County Pub. Defender v. Siroki, 108 Ohio St.3d 207 (2006).
- **Release Otherwise Prohibited by Law**, (i.e. trade secret, infrastructure and security records, etc.), ORC 149.43(A)(1)(v).
- Other Specified Reason:**

       **All files are confidential**

Should you have any questions regarding this issue, please contact Ohio EPA's Office of Legal Services.

(This memorandum is to remain visibly attached to this file.)

## COMPLAINT INVESTIGATION FORM

Date/Time Reported: 9/3/13	DISTRICT OFFICE: NEDO
<b>COMPLAINANT:</b>	<b>SUSPECTED SOURCE:</b>
Name: Anonymous	Name/Facility: <sup>Vendetta</sup> Vandetta Towing
Address:	Address: W. 71 and Dearborn Ave. (white/blue/black building) Cleveland, OH
Phone No:	County: Cuyahoga
	Phone No:
<b>CONFIDENTIAL?</b>	

**STATEMENT OF COMPLAINT:** (Location, type of material, quantity, areas affected, phone #'s.)

Complainant alleges the facility is crushing vehicles and mismanaging auto fluids and scrap tires. Complainant observed oil staining, broken glass and other debris in the parking lot to the facility.

Associated Individuals/Companies:

Complaint Received By: Frank Zingales-DMWM

**INVESTIGATION SUMMARY:**

Investigator assigned: Marlene Kinney	Priority:
<b>Other Divisions Notified:</b>	
Investigation status/resolution: Investigated 6/12/14.	

Facility no longer there. We walked the property and ~~did~~ noted that all tires, trash, vehicles have been removed. Saw several areas of oil staining on the asphalt but appeared to have been cleaned up. Outside area where vehicles would have been parked covered in concrete or asphalt. No access to building. Property is for sale.

Spoke to a person who works at the Hillson Nut Company

located next door. The person stated the building has been vacant for months and possibly since when he started working at Hillson in August 2013.

6/2/14

Vendetta Towing Complaint 7652  
W 71<sup>st</sup> and Dearborn, Cleve OH

↓ No longer at this location. There is a vacant white/blue/black building for sale. (Drubb & Ellis)

Marlene Kinney arrived 10<sup>45</sup>  
John ~~Pago~~ Paquette

We walked the property. Outdoor area is covered in asphalt & concrete.

No trees

No cars

No pools of oil

small pile of solid waste that hadn't been removed

Next Door: The Hillson Nut Company  
3225 West 71<sup>st</sup>

spoke to someone in Hillson Nut about Vendetta. stated the lot has been vacant for months and possibly since he started in Aug 2013

Building for sale:  
3203 West 71<sup>st</sup>

Vendetta Towing June 2, 2014  
Vendetta Towing is no longer at this location



APPENDIX H  
SITE PHOTOGRAPHS





View of parcel 006-28-038, facing north.



View of parcel 006-28-038, facing east.



View of parcel 006-28-038, facing south.



Pole mounted transformers located along the eastern portion of the Site.



View of parcel 006-28-050, facing south



View of the eastern portion of parcel 006-28-050.



View of the western portion of parcel 006-28-050.



Eastern adjacent properties to parcel 006-28-038.



Western adjacent properties to parcel 006-28-038.



Southern adjacent property to parcel 006-28-038.



Northern adjacent properties to parcel 006-28-050.



Eastern adjacent property to parcel 006-28-050.



Southern adjacent properties to parcel 006-28-050.



Western adjacent property to parcel 006-28-050.