



## **PHASE I ENVIRONMENTAL SITE ASSESSMENT**

**for**

**Lester Park Redevelopment  
1860 Lester River Rd  
Duluth, Minnesota 55804**

**BAY WEST PROJECT NO. J220163**

**June 2022**

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## TABLE OF CONTENTS

<b>EXECUTIVE SUMMARY .....</b>	<b>III</b>
<b>1.0 INTRODUCTION .....</b>	<b>1</b>
1.1 Purpose .....	1
1.2 Scope .....	1
1.3 Significant Assumptions .....	2
1.4 Limitations and Exceptions .....	2
1.5 Data Gaps .....	4
1.6 User Reliance .....	4
<b>2.0 USER-PROVIDED INFORMATION .....</b>	<b>5</b>
2.1 Title Records .....	5
2.2 Environmental Liens .....	5
2.3 Activity and Use Limitations .....	5
2.4 Specialized Knowledge .....	5
2.5 Significant Valuation Reduction for Environmental Issues .....	5
2.6 Commonly Known or Reasonably Ascertainable Information .....	5
<b>3.0 PROPERTY DESCRIPTION .....</b>	<b>6</b>
3.1 Location and Parcel Description .....	6
3.2 Surrounding Area General Characteristics .....	6
3.3 Current Use of the Property .....	6
3.4 Description of Property Improvements .....	6
3.5 Current Uses of Adjoining Properties .....	6
<b>4.0 RECORDS REVIEW .....</b>	<b>7</b>
4.1 Physical Setting Sources .....	7
4.1.1 Topography .....	7
4.1.2 Geology .....	7
4.1.3 Hydrogeology .....	7
4.1.4 Hydrology .....	7
4.1.5 Other Physical Setting Sources .....	7
4.2 Standard Environmental Records .....	8
4.2.1 Property .....	8
4.2.2 Adjoining Sites .....	8
4.2.3 Surrounding Area .....	9
4.2.4 "Orphan" Facilities .....	9
4.2.5 Local Environmental Records Sources .....	9
4.2.6 Vapor Encroachment Screen .....	10
4.3 Historical-Use Information .....	11
4.3.1 Aerial Photographs .....	11
4.3.2 Historical Real Estate Maps .....	12
4.3.3 Property Tax Files .....	12
4.3.4 Recorded Land Title Records .....	12
4.3.5 Historical USGS Topographic Quadrangles .....	12
4.3.6 City Directories .....	13
4.3.7 Local Government Records .....	14
4.3.8 Prior Reports .....	14
<b>5.0 PROPERTY RECONNAISSANCE .....</b>	<b>15</b>
5.1 Methodology and Limiting Conditions .....	15
5.2 Land-Surface and Property Use Observations .....	15
5.3 Surface-Water Observations .....	15



5.4	Aboveground and Underground Storage Tanks (ASTs/USTs) .....	15
5.5	Hazardous Substance Use, Storage, and Disposal .....	15
5.6	Petroleum Products Use, Storage, and Disposal .....	15
5.7	Polychlorinated Biphenyls (PCBs) .....	15
5.8	Waste Disposal .....	15
5.9	Wastewater Discharges .....	15
5.10	Wells .....	15
5.11	Pesticides and Herbicides .....	16
5.12	Surrounding Property Review .....	16
<b>6.0</b>	<b>INTERVIEWS .....</b>	<b>17</b>
6.1	Interview with Local Government Officials .....	17
<b>7.0</b>	<b>FINDINGS AND OPINIONS .....</b>	<b>18</b>
<b>8.0</b>	<b>CONCLUSIONS .....</b>	<b>19</b>
<b>9.0</b>	<b>REFERENCES .....</b>	<b>20</b>

### List of Appendices

Appendix A	Property Location and Property Maps
Appendix B	User Questionnaire
Appendix C	Regulatory Database Report
Appendix D	MPCA Files
Appendix E	Historical Aerial Photographs
Appendix F	Historical Real Estate Maps
Appendix G	Historical Topographic Maps
Appendix H	Historical City Directories
Appendix I	Property Photographic Log
Appendix J	Resumes



## EXECUTIVE SUMMARY

**Property Information:**

Lester Park Redevelopment  
1860 Lester River Rd  
Duluth, Minnesota  
St. Louis County

**Property Access Contact:**

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Reconnaissance Date: April 29, 2022  
Property Assessor and Environmental Professional: Erik Nimlos  
Senior Reviewer and Environmental Professional: Rick Van Allen

**Client Information:**

Ms. Theresa Bajda  
City of Duluth  
411 West First Street, Room 160  
Duluth, Minnesota 55802  
Phone: 218-730-45303

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 part of 40 Code of Federal Regulations (CFR) 312. I have the specific qualifications based on education, training, and experience to assess a Property of the nature, history, and setting of the subject Property. We have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

A handwritten signature in black ink, appearing to read 'Erik Nimlos'.

Erik Nimlos, PG  
Environmental Professional

A handwritten signature in black ink, appearing to read 'Rick Van Allen'.

Rick Van Allen, PG  
Environmental Professional



Bay West has performed a Phase I Environmental Property Assessment (Phase I ESA) in general conformance with the scope and limitations of *Standard Practice for Environmental Property Assessments: Phase I Environmental Property Assessment Process*, ASTM International Designation: E 1527-21 for the Lester Park Redevelopment located near 1860 Lester River Rd in Duluth, St. Louis County, Minnesota (the Property). Any exceptions to, or deletions from, this practice are described in **Section 1.5** of this report.

Based on review of the historical aerial photographs, historical maps, and city directories, the Property was historically undisturbed with the exception of a few utility line clearings until the late 1980s when portions were added onto the existing Lester Park Golf Course to the north. The onsite golf course continued operation until the late 2010s after which the golf fairways were left unmaintained. At present, the Property remains unimproved with the exception of asphalt-paved walkways associated with the former golf course. A homeless encampment was observed along the western edge of the Property and scattered non-hazardous waste materials – including four empty drums containing rainwater and food wrappers – were observed during the visual reconnaissance.

The surrounding area was historically vacant land to the west, the golf course to the north, roadway and railway to the east, and residences to the south. Additional nearby uses noted in historical city directories included a children's home, catering business, and American Legion Club location. With the exception of improvements to Highway 61 to the east and construction of an assisted living facility and medical clinic to the south, the surrounding area has remained similar in development and use since at least the 1930s through the present.

Bay West's assessment did not reveal any Recognized Environmental Conditions (RECs), Historical RECs (HRECs), Controlled RECs (CRECs), and/or Vapor Encroachment Concern (VECs) in connection with the Property.

With respect to environmental conditions at the Property, Bay West makes the following recommendation:

- Portions of the Property have been improved as a golf course for at least 30 years based on historical record review. As noted in the regulatory database review, the former operator – Lester Park Golf Course – was a licensed pesticide and herbicide applicator in order to maintain the grounds of the course. The legal application (i.e. in accordance with manufacturer's specifications and best practices) of such substances, in the course of standard operational practices does not constitute a "release to the environment." Therefore, the User should take into consideration the historical use of the Property and the potential presence of various agricultural chemicals in the soil and groundwater when undertaking any site development activities.



## 1.0 INTRODUCTION

On April 25, 2022, Bay West was authorized by Ms. Theresa Bajda, City of Duluth Planner, to conduct a Phase I Environmental Property Assessment (ESA) of the Lester Park Redevelopment located near 1860 Lester River Rd in Duluth, St. Louis County, Minnesota, herein referred to as the Property (**Appendix A: Figure 1 and Figure 2**).

### 1.1 Purpose

The purpose of this Phase I ESA was to evaluate the Property for indications of recognized environmental conditions (RECs) in connection with the Property and to assist in satisfying All Appropriate Inquiries (AAI) standards and practices. RECs are defined by ASTM Practice E 1527-21 as: "The presence or likely presence of any hazardous substances or petroleum products in, on, or at a Property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. The term is not intended to include de minimis conditions that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies (Section 1.1.1E 1527-21; ASTM International [ASTM], 2013). A historical recognized environmental condition (HREC) is a past release of any hazardous substances or petroleum products that has occurred in connection with the subject 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 subject Property to any required controls (Section 3.2.42 E 1527-21; ASTM 2013). A controlled recognized environmental condition (CREC) is a REC resulting from a past release of hazardous substances of 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 (Section 3.2.18 E 1527-21; ASTM 2013).

This Phase I ESA is intended to satisfy one of the requirements for the innocent landowner defense, the contiguous Property exemption, and the bona fide prospective purchaser exemption to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) liability: that is, the practices that constitute "all appropriate inquiry into the previous ownership and uses of the subject Property consistent with good customary practice," as defined in 42 U.S. Code Section 9601 (35)(B).

Per the User, the Phase I ESA is being conducted as part of due diligence associated with City of Duluth recreational use and potential redevelopment of the Property.

### 1.2 Scope

This Phase I ESA was conducted in general accordance with the ASTM Standard Practice E 1527-21, consistent with a level of care and skill ordinarily practiced by the environmental consulting professional(s) currently providing similar services under similar circumstances. Significant additions, deletions, or exceptions to ASTM Standard Practice E 1527-21 are noted below or in the corresponding sections of this report. The scope of this Phase I ESA included an assessment of the following:

- Physical setting characteristics of the Property through a review of referenced sources such as topographic maps and geologic, soils, and hydrologic reports;
- Usage of the Property, adjoining properties, and surrounding area through a review of referenced historical sources such as fire insurance maps, city directories, aerial photographs, and interviews;



- Observations and interviews regarding current Property usage and conditions including the use, treatment, storage, disposal, or generation of hazardous substances, petroleum products, hazardous wastes, non-hazardous solid wastes, and wastewater;
- Observations and interviews regarding usage of adjoining and surrounding area properties and the likely impact of known or suspected releases of hazardous substances or petroleum products from those properties on the Property;
- Information in referenced environmental agency databases and local environmental records, within the specified approximate minimum search distance from the Property; and
- Preparation of a written report that includes findings, opinions, conclusions, and supporting documentation.

The Standard Scope of the ASTM Practice E 1527-21 is not intended to provide a universal analysis of potential environmental risks and hazards. This assessment included no analysis of non-standard scope environmental risks and hazards unless otherwise listed above. Analysis of other non-standard scope issues by Bay West would require additional contractual arrangements.

### **1.3 Significant Assumptions**

Any assumptions in this report were not considered as having significant impact on the determination of RECs associated with the Property.

### **1.4 Limitations and Exceptions**

Bay West has prepared this Phase I ESA report using reasonable efforts to identify RECs associated with hazardous substances or petroleum products at the Property. Findings contained within this report are based on information collected from observations made on the day of the Property reconnaissance and from reasonably ascertainable information obtained from certain public agencies and other referenced sources.

The ASTM Standard Practice E 1527-21 recognizes inherent limitations for Phase I ESAs, including, but not limited to:

- **Uncertainty Not Eliminated** – A Phase I ESA cannot eliminate uncertainty regarding the potential for RECs in connection with any Property.
- **Not Exhaustive** – A Phase I ESA is not an exhaustive investigation of the Property and environmental conditions on such Property.
- **Past Uses of the Property** – Phase I requirements only require review of standard historical sources at 5-year intervals. Therefore, past uses of the Property at less than 5-year intervals may not be discovered.

Users of this report may refer to ASTM Standard Practice E 1527-21 for further information regarding these and other limitations. This report is not definitive and should not be assumed to be a complete and/or specific definition of all conditions above- or below-grade. Subsurface conditions at the time of the reconnaissance may differ from the conditions determined by surface observations, interviews, and reviews of historical sources. The most reliable method of assessing subsurface conditions is through intrusive techniques. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other Property construction purposes. Any use of this report by any party, beyond the scope and intent of the original parties, shall be at the sole risk and expense of such user.



Bay West makes no representation or warranty that the past or current operations at the Property are, or have been, in compliance with all applicable federal, state, and local laws, regulations, and codes. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated. Regardless of the findings stated in this report, Bay West is not responsible for consequences or conditions arising from facts not fully disclosed to Bay West during the assessment.

An independent data research company provided the government agency database referenced in this report. Information on surrounding area properties was requested for approximate minimum search distances and is assumed to be correct and complete unless obviously contradicted by Bay West's observations or other credible referenced sources reviewed during the assessment. Bay West shall not be liable for any such database firm's failure to make relevant files or documents properly available, to properly index files, or otherwise to fail to maintain or produce accurate or complete records.

Bay West used reasonable efforts to identify indications of ASTs and USTs and ancillary equipment on the Property during the assessment. "Reasonable efforts" were limited to observation of accessible areas and review of referenced public records and interviews. These reasonable efforts may not identify subsurface equipment or evidence hidden from view by things including, but not limited to, thick vegetative or tree cover.

The estimates of costs or quantities in this report are approximations for commercial real estate transaction due diligence purposes and are based on the findings, opinions, and conclusions of this assessment, which are limited by the scope of the assessment, schedule demands, cost constraints, accessibility limitations, and other factors associated with performing the Phase I ESA. Subsequent determinations of costs or quantities may vary from the estimates in this report. The estimated costs or quantities in this report are not intended to be used for financial disclosure related to the Financial Accounting Standards Board (FASB) Statement No. 143, FASB Interpretation No. 47, Sarbanes/Oxley Act, or any United States Securities and Exchange Commission reporting obligations, and may not be used for such purposes in any form without the express written permission of Bay West.

Bay West is not a professional title insurance or land surveyor firm and makes no guarantee, expressed or implied, that any land title records acquired or reviewed in this report, or any physical descriptions or depictions of the Property in this report, represent a comprehensive definition or precise delineation of Property ownership or boundaries.

The Environmental Professional Statement in Section 1.1 of this report does not "certify" the findings contained in this report and is not a legal opinion of such *Environmental Professional*. The *Environmental Professional* Statement is intended to document Bay West's opinion that an individual meeting the qualifications of an Environmental Professional was involved in the performance of the assessment and that the activities performed by, or under the supervision of, the Environmental Professional were performed in conformance with the standards and practices set forth in 40 CFR Part 312 per the methodology in ASTM Standard Practice E 1527-21 and the scope of work for this assessment.

Per ASTM Standard Practice E 1527-21, Section 6, User Responsibilities, the User of this assessment has specific obligations for performing tasks during this assessment that will help identify the possibility of RECs in connection with the Property. Failure by the User to fully comply with the requirements may impact their ability to use this report to help qualify for *Landowner Liability Protections* (LLPs) under Comprehensive Environmental Response, Compensation, and



Liability Act (CERCLA). Bay West makes no representations or warranties regarding a User's qualification for protection under any federal, state or local laws, rules, or regulations.

In accordance with the ASTM Standard Practice E 1527-21, this report is presumed to be valid for a six-month period. If the report is older than six months, the following information must be updated for the report to be valid: (1) regulatory review, (2) Property visit, (3) interviews, (4) specialized knowledge, and (5) environmental liens search. Reports older than one year may not meet the ASTM Standard Practice 1527-21; therefore, the entire report must be updated to reflect current conditions and Property-specific information.

Other limitations and exceptions that are specific to the scope of this report may be found in corresponding sections.

### **1.5 Data Gaps**

No data gaps were identified during the Phase I ESA process, with the exception of the following:

- Historical resources were not readily available for 5-year-or-less intervals from the time of the first developed use of the Property. However, a substantial amount of historical resources was available and reviewed for the time periods of most concern at the Property. Therefore, the presence of time gaps does not impact Bay West's ability to render an opinion regarding potential RECs, HRECs, or CRECs.
- Bay West was not provided Property chain-of-title information by the User. ASTM1527-21 requires that the user review certain title records to identify whether any environmental liens or activity and use limitations have been imposed on the site. The lack of title information is identified as data gap; however, this does not significantly impact Bay West's ability to render an opinion regarding potential RECs, HRECs, or CRECs.

### **1.6 User Reliance**

This Phase I ESA report was prepared for the sole use of the City of Duluth, and its agents, representatives, successors and assigns. No other party should rely on the information contained herein without prior written consent of Bay West and the City of Duluth. With the consent of the City of Duluth, Bay West is available to work with other parties in developing probability estimates, given other parties' unique risk management concerns.

Reliance on this Phase I ESA report by parties other than the City of Duluth may result in reliance on assumptions whose extent and nature could distort the meaning and impact of the opinions given in this report. This distortion could result in misinterpretation of these opinions and unwise actions based on those misinterpretations. As such, no party, except the City of Duluth, should rely on opinions for the potential of hazardous materials to exist at the Property. The guidelines used to define hazardous substances and petroleum products were obtained from the ASTM Standard E1527-21. Any use by or distribution of this report to third parties, without the express written consent of Bay West and the City of Duluth, is at the sole risk and expense of such third party.



## 2.0 USER-PROVIDED INFORMATION

The “User” as defined by ASTM Practice E 1527-21, is the party seeking to use ASTM Practice E 1527-21 to complete an environmental site assessment and may include, without limitation, a potential purchaser, tenant, or owner of a Property, a lender, or a Property manager. The following information was provided by Ms. Theresa Bajda, City of Duluth Planner (the User). Copies of user-provided information referenced in the following sections are included as **Appendix B**.

### 2.1 Title Records

A chain of title includes a sequence of historical transfers of title to the Property. A chain-of-title search was not conducted as part of the scope of services for this assessment.

### 2.2 Environmental Liens

An environmental lien is a charge, security, or encumbrance, upon title to the Property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of environmental issues at the Property. The User were not aware of any information regarding environmental liens associated with the Property.

### 2.3 Activity and Use Limitations

Activity and Use Limitations (AULs) include, but are not limited to, engineering controls, land-use restrictions or institutional controls that are in place at the Property and/or have been filed or recorded in a registry under federal, tribal, state or local law. The User was not aware of any AULs on the Property.

### 2.4 Specialized Knowledge

Specialized environmental knowledge includes any information and/or experience related to the Property or adjoining properties including, but not limited to, any obvious indicators that point to the presence or likely presence of environmental issues at the Property. The User did not have specialized knowledge of environmental conditions at the Property.

### 2.5 Significant Valuation Reduction for Environmental Issues

Valuation reduction for environmental issues includes the relationship of the purchase price to the fair market value of the Property. The User was unaware of any significant valuation reduction based on environmental issues.

### 2.6 Commonly Known or Reasonably Ascertainable Information

Commonly known or reasonable ascertainable information includes information about the Property that generally is known to the public within the community where the Property is located and can be easily sought and found from individuals familiar with the Property or from easily attainable public sources of information. The User was not aware of any additional environmental concerns in association with the Property.



### 3.0 PROPERTY DESCRIPTION

#### 3.1 Location and Parcel Description

The Property is accessible from 1860 Lester River Rd in Duluth, St. Louis County, Minnesota (**Appendix A: Figure 2**); at present, the Property parcels do not have an assigned address. The Property is bound to the north by the former Lester Park Golf Course, Highway 61 to the east, East Superior Street to the south, and Lester River Road to the west. The approximate center of the Property is located at latitude 46.843844° and longitude -92.000177°. According to the Public Land Survey System, the Property is located in Section 4, Township 50 North, Range 13 West.

#### 3.2 Surrounding Area General Characteristics

The surrounding area consists of residential, a clinic, and unimproved forestland. Specific adjacent site uses are further discussed in **Section 3.5**. The Property has a topographic slope to the southeast; the surrounding area is similarly sloped as the Property towards the southeast and Lake Superior.

#### 3.3 Current Use of the Property

At the time of the assessment, the Property was vacant.

#### 3.4 Description of Property Improvements

The following table provides general descriptions of the Property and improvements.

PROPERTY IMPROVEMENTS	
Size of Property (approximate)	38 acres
General Topography of Property	Sloping to the southeast
Adjoining and/or Access/Egress Roads	Entrance to the former golf course parking lot on north side of Property from Lester Park Road
Paved or Concrete Areas (including parking)	Former golf course walkways between fairways
Unimproved Areas	>99% of Property is either unmaintained golf sod or forest
Landscaped Areas	Former golf course
Surface Water	None
Heating/Cooling	None
Utilities (Water/Sewer/Electric/Gas)	None
Current Occupancy Status	The Property is currently vacant

#### 3.5 Current Uses of Adjoining Properties

Current uses of the adjoining properties were observed to be as follows:

<b>North</b>	Former Lester Park Golf Course (1860 Lester Park Road)
<b>South</b>	Lester River Medical Clinic (6351 E Superior St) and Diamond Willow advanced care assisted living (6353-6355 E Superior St)
<b>East</b>	Highway 61, followed by Duluth Sanitary District facility (6714 E Superior St) and Brighton Beach Park (6202 Congdon Blvd)
<b>West</b>	Lester River Road, followed by Lester Park (61 Lester River Rd)



## 4.0 RECORDS REVIEW

### 4.1 Physical Setting Sources

#### 4.1.1 Topography

Based on the United States Geological Survey (USGS) *Duluth, MN* and *Lakewood, MN*, USGS 7.5-Minute Series topographic maps, dated 2022, the Property elevation ranges from approximately 670 to 740 feet above mean sea level (amsl). During the site reconnaissance, the Property was observed to generally slope towards the southeast. The surrounding area also had a general regional topographic gradient sloping to the southeast. A copy of the topographic map is included as **Appendix A: Figure 1**.

#### 4.1.2 Geology

The unconsolidated sediments in the Property vicinity consist of clay and silty clay (Unit ID “bl”) of the Pleistocene Barnum Formation (Dengler et al., 2017).

A majority of the Property is underlain by the Mesoproterozoic gabbroic-zone oxide olivine gabbro of the Duluth Complex formation, part of the Midcontinent Rift Intrusive Super-suite (Boerboom et al, 2017). Portions of the western edge of the Property are underlain by Icelandite (Unit ID “Mni”) and undifferentiated basalt to basaltic andesite flows (Unit ID “Mnb”) of the Keweenawan Supergroup.

The depth to bedrock ranges from scattered surface exposures to 110 feet below ground surface (bgs) in the surrounding area of the Property (Jirsa et al, 2010).

#### 4.1.3 Hydrogeology

Regional groundwater flow direction is generally influenced by major hydrogeologic features such as nearby streams, lakes, wells, and/or wetlands. Surface and/or bedrock topography may also influence regional groundwater flow direction. According to published geologic information, the regional groundwater flow direction within the unconsolidated deposits in the Property vicinity is to the east-southeast towards the St. Louis River, located adjacent southeast of the Property.

For the purposes of this assessment, in assessing potential external environmental impacts, properties located to the west-northwest and northeast (upgradient) of the Property are of primary concern. Estimated groundwater levels and/or flow direction(s) may vary due to seasonal fluctuations in precipitation, local usage demands, geology, underground structures, or dewatering operations. According to published geologic information, groundwater is estimated to be approximately 0 to 50 feet below ground surface at the Property (Adams, 2016).

#### 4.1.4 Hydrology

Based on observations made during the site reconnaissance, it appears that storm water on the Property either infiltrates unpaved onsite surfaces or drains on the surface and flows southeast of the Property towards Lake Superior.

#### 4.1.5 Other Physical Setting Sources

##### *Minnesota Well Index*

The Minnesota Geological Survey (MGS) maintains the Minnesota Well Index (MWI), which is a limited database of water well records. The MWI was accessed through the Minnesota Department of Health (MDH) website. Not all private water wells are listed in that database. Our review of the MWI database revealed that no water supply wells were located at the Property; however, the MWI is limited and does not include well records submitted prior to the 1980s.



## 4.2 Standard Environmental Records

Bay West obtained regulatory information pertaining to the Property and surrounding area from Envirosearch Corporation (Envirosearch). The Envirosearch report is a compilation of records of facilities that are included on current federal and state environmental regulatory databases. The databases were searched based on the specified minimum search distances from the Property as defined by ASTM Practice E 1527-21. The Envirosearch report also includes a description, source reference, date of acquisition, and the specified approximate minimum search distance criteria for each database and list.

Bay West also reviewed the “unmappable” (also referred to as “orphan” facilities) within the database report, cross-referencing available address information and facility names. Unmappable sites are listings that could not be plotted with confidence but are potentially in the general area of the Property based on the partial street address, city, or zip code. Any unmappable site that was identified by Bay West as being within the approximate minimum search distance from the Property based on the Property reconnaissance and/or cross-referencing to mapped listings, is included in the discussion within this section. The complete regulatory agency database report is provided on the enclosed CD as **Appendix C**.

The following is a summary of the Envirosearch report map findings.

### 4.2.1 Property

No listings reported to be located at the Property were available in the Envirosearch report.

### 4.2.2 Adjoining Sites

The following sites of potential environmental concern adjoining the Property were listed in the Envirosearch report:

- **Lester River Medical Clinic:** Located at 6351 Superior St, approximately 150 feet southwest (down-gradient) of the Property, this facility was listed in the Facility Registry System (FRS) and MN Hazardous Waste Generator (HWG – MN) databases.

The facility is listed as a minimal quantity generator of pharmaceutical wastes, with generated waste amounts recorded between 5 to 10 pounds annually. No violations or releases have been reported with respect to this facility’s hazardous waste generator status. Based on this compliance history, site activity, and topographical gradient, this facility is not considered to represent a REC for the Property.

- **Lester Park Golf Course:** Located at 1860 Lester River Road, approximately 2,100 feet north (cross-gradient) of the Property, was listed in the RCRA Non-Generator/No Longer Regulated (RCRA\_NONGEN), Enforcement Compliance History (ECHO), MN Aboveground Storage Tank (AST – MN), MN Agriculture License (AG\_LICENSES – MN & MDA LIC – MN), EPA Underground Storage Tank (EPA UST), MN UST (UST – MN), EPA Leaking UST (EPA LUST), MN LUST (LUST – MN), MN Hazardous Waste Manifest (MANIFEST – MN), and MN What’s In My Neighborhood (WIMN – MN) databases.

The facility was registered with the Minnesota Department of Agriculture (MDA) as a licensed non-commercial pesticide applicator. No letters of warning, violations, or spills were reported with respect to the facility’s agricultural licensed activities.

The facility was formerly associated with two single-walled steel USTs registered under MPCA ID#TS0005358, as summarized in the table below:



Tank Number	Type	Material	Capacity (gallons)	Status	Product
1	AST	Carbon steel	2,000	Active	Gas Blends (E1-E49)
2	AST	Carbon steel	2,000	Active	Diesel Fuel
001	UST	Bare Steel	350	Removed (04/24/1990)	Gasoline
002	UST	Bare Steel	265	Removed (04/24/1990)	Gasoline

During removal of Tank 001, a previously unregistered tank of unknown size or origin (002) was discovered and found to be associated with considerable subsurface petroleum contamination. A spill was reported at the time and the facility was assigned Leak Site ID #2536. To address the contamination, approximately 400 cubic yards of soil were removed from the facility and brought to an offsite facility for land application treatment. Endpoint sampling following excavation in June 1990 and subsequent investigation soil samples collected between 1994 and 1996 did not detect petroleum contamination at concentrations above applicable state soil action levels. Elevated concentrations of diesel-range organics (DRO), gasoline-range organics (GRO), and petroleum volatile organic compounds (PVOCs) were detected in one of five onsite groundwater monitoring wells (MW-2) between 1994 and 1997, though down-gradient monitoring points did not detect DRO, GRO, or PVOCs above state groundwater action levels. Based on the lack of receptors within 500 feet of the release, a decreasing trend for petroleum contaminants detected in MW-2, and lack of identified contamination in down-gradient monitoring points, the leak site was closed on July 8, 1998.

The remaining database entries indicate that the facility was a licensed pesticide applicator; a former generator of petroleum naphtha/combustible liquid wastes with no violations reported against their hazardous waste generator status; and the location of a de minimis surface spill of hydraulic oil that occurred and was remediated in 2016.

Based on the regulatory status, distance, and topographic gradient, the activities at this facility are not considered to represent RECs for the Property.

#### 4.2.3 Surrounding Area

Based on factors that include regulatory status, distance from the Property, and/or location relative to the regional groundwater flow direction, as referenced in **Section 4.1.3**, no additional facilities were identified in the Envirosearch report that warrant further consideration as potential listings of environmental concern, with the exception of sites discussed below in **Section 4.2.6**.

#### 4.2.4 "Orphan" Facilities

The Envirosearch report identified one "orphan" facilities (listed under the same name) which, because of poor or inadequate address information, could not be mapped by Envirosearch. Using the information contained in the Envirosearch report about this orphan site and on-line mapping resources, this site was determined to not be a REC based on the site distance and location from the Property.

#### 4.2.5 Local Environmental Records Sources

Bay West accessed MPCA's "What's In My Neighborhood" web page for information regarding the potential for the Property, adjoining properties, or surrounding properties to be of environmental concern that were not identified in the Envirosearch report. No additional facilities not already identified in the Envirosearch report were noted on the state regulatory web pages we



accessed. Requested MPCA files reviewed for sites identified by the Envirosearch regulatory database report are included in **Appendix D**.

#### 4.2.6 Vapor Encroachment Screen

Bay West completed an initial vapor encroachment screen to determine if a vapor encroachment concern (VEC) exists in the subsurface at the Property from hazardous substances, petroleum, and petroleum products that can include volatile organic compounds (VOCs), semi-VOCs (SVOCs), and inorganic volatile compounds. The Tier 1 non-invasive vapor encroachment screen was performed for the chemicals of concern and the approximate recommended minimum search distances included in ASTM E 2600-15 "Standard Guide for Vapor Encroachment Screening on Properties Involved in Real Estate Transactions." The following minimum search distances are outlined in ASTM E 2600-15 (ASTM, 2015).

**Area of Concern**  
**Approximate Minimum Search Distances Surrounding the Subject Property (miles)**

<b>Standard Environmental Record Sources (where available)</b>	<b>Chemicals of Concern</b>	<b>Petroleum Hydrocarbon Chemicals of Concern</b>
Federal NPL	0.33	0.1
Federal CERCLIS	0.33	0.1
Federal Resource Conservation and Recovery Act (RCRA) CORRACTS	0.33	0.1
Federal RCRA non-CORRACTS TSD	0.33	0.1
Federal RCRA Generators	Subject Property Only	Subject Property Only
Federal Institutional Control/Engineering Control	Subject Property Only	Subject Property Only
Federal ERNS	Subject Property Only	Subject Property Only
State and Tribal-equivalent NPL	0.33	0.1
State and Tribal-equivalent CERCLIS	0.33	0.1
State and Tribal Landfill or Solid Waste Disposal Properties	0.33	0.1
State and Tribal LUST	0.33	0.1
State and Tribal UST	Subject Property Only	Subject Property Only
State and Tribal Institutional Control/Engineering Control	Subject Property Only	Subject Property Only
State and Tribal Voluntary Cleanup	0.33	0.1
State and Tribal Brownfield	0.33	0.1



Vapor intrusion involves the migration of volatile chemicals from the subsurface into overlying buildings. These volatile organic vapors can pose health and safety risks to building occupants. MPCA Guidance Documents c-rem3-01 and c-s4-06 describe the recommended procedures for evaluating vapor intrusion risk for buildings near petroleum and other volatile chemical releases. In general, the MPCA recommends collecting soil-gas samples between the source area and all buildings within 100 feet of a petroleum or volatile chemical release.

### Subject Property

No listings were identified to represent a VEC for the Property.

### Adjoining or surrounding Properties

No adjoining or surrounding properties are considered to represent VECs for the Property.

## 4.3 Historical-Use Information

The objective of the historical-use information review was to develop a history of the previous uses of the Property and surrounding area, to help evaluate the likelihood of past uses having led to recognized environmental conditions in connection with the Property. Bay West consulted only those historical sources that were readily available, practically reviewable, and likely to be useful to develop a history of previous uses of the Property and surrounding area within the time and cost constraints of this Phase I ESA.

### 4.3.1 Aerial Photographs

Bay West retained Envirosite to provide aerial photographs for the Property and surrounding area. Bay West reviewed aerial photographs of the Property dated between 1939 and 2019 (all having the scale of 1" = 500' or 1" = 1,000'). The purpose of the review was to identify visible indications of land use at the Property and immediate vicinity that may indicate a potential environmental concern. Copies of aerial photographs obtained are provided as **Appendix E**. The following are descriptions and interpretations from the aerial photograph review:

**Aerial Photograph Summary**

Years	Comments
1939 – 1961	<b>Property:</b> The Property appeared unimproved with the exception of apparent clearings in vegetation for utility lines. Otherwise the Property appeared as vacant forest-covered land with man-made clearings on the northern edge (associated with the Lester Park Golf Course) and along the southwestern edge <b>Surrounding Area:</b> North of the Property is the Lester Park Golf Course. East of the Property is East Superior Street, followed by railroad track and Lake Drive. To the south are undeveloped woodland, followed by single-family homes. To the west is Lester River Road, followed by undeveloped land.
1972 – 1986	<b>Property:</b> The Property appears similar to previous years <b>Surrounding Area:</b> The surrounding area appears similar to previous years, with the exception of construction of an expanded Highway 61 to the east beyond East Superior Street.
1989 – 2008	<b>Property:</b> The Property appears as golf course fairways and select undisturbed areas of woodland, extending from the north-adjoining Lester Park Golf Course. <b>Surrounding Area:</b> The surrounding area appears similar to previous years.
2010 – 2019	<b>Property:</b> The Property appears similar to previous years. <b>Surrounding Area:</b> The surrounding area appears similar to previous years, with the exception of construction of two large buildings south-adjoining the Property between 2010 and 2013.



Based on review of the aerial photographs, it appears that the Property was historically unimproved until the late 1980s when it became incorporated into the existing north-adjointing Lester Park Golf Course. Surrounding land use remained consistent historically with the exception of roadway improvements in the 1970s and construction of the present day assisted care and clinic buildings to the south. Evidence of RECs in association with the Property were not identified during review of the aerial photographs.

#### 4.3.2 Historical Real Estate Maps

Bay West retained Envirosite to provide historical real estate maps, including Sanborn fire insurance maps and Minnesota Real Estate Atlas maps for the Property and surrounding area. Fire insurance maps are produced by private fire insurance map companies and indicate uses of Property at specified dates. The information noted on the maps commonly includes uses of individual structures, locations of fuel and/or chemical storage tanks, and storage of other potentially toxic substances.

Sanborn fire insurance maps were not available for the Property, though surrounding area maps were provided for 1955 and 1963. The areas displayed on the maps are located to the southwest (i.e. down-gradient of the Property) and of sufficient distance to the Property to not displace evidence of potential RECs in association with the Property.

A real estate atlas dated 1902 displayed future surveyed streets and lots as part of the Lester Park Fourth Division, though no structures were depicted within the Property. The remaining Real Estate Atlas maps provided from 1924 did not show improvements to the Property with the exception of proposed roadway along the southeastern edge of Lester Park 4<sup>th</sup> Division.

Copies of the historical real estate maps are attached in **Appendix F**.

#### 4.3.3 Property Tax Files

Bay West reviewed available tax files regarding the Property online through the St. Louis County website. The Property includes thirteen parcels owned by the City of Duluth that include the following: 010-1410-00110, 010-1410-00120, 010-2860-03030, 010-2860-02670, 010-2860-02710, 010-2860-01480, 010-2860-01710, 010-2860-01480, 010-2860-01690, 010-2860-01680, 010-2860-02390, 010-2860-01720 and 010-2860-02910.

Bay West did not identify any additional RECs for the Property from review of the Property Tax Files.

#### 4.3.4 Recorded Land Title Records

The acquisition of recorded land title records was not included in the scope of this assessment.

#### 4.3.5 Historical USGS Topographic Quadrangles

Bay West reviewed available historical *Duluth, MN* and *Lakewood, MN* USGS Topographic Quadrangles dated 1895, 1953 (7.5-minute series) and 1953, 1969, 1975, 1993, 2010, 2013, 2016, 2019, and 2022 (15-minute series) as provided by Envirosite, for information regarding past uses of the Property. Copies of the topographic maps reviewed are included in **Appendix G**. The following are descriptions and interpretations from the historical topographic map review:

Year	Comments
1895	<b>Property:</b> The Property appeared as vacant with the exception of proposed roadways depicted along East Superior Street. <b>Surrounding Area:</b> The surrounding area appears as roadway and railroad track to the south, roadway to the west, and vacant land to the north. Land to the east of the Property is not depicted on the 1895 map.



Year	Comments
1953, 1969, 1975, 1993	<p><b>Property:</b> The Property appears as vacant forested land, with a small clearing depicted in the northwest corner. Forest cover appears reduced on the eastern portion of the Property in 1993, consistent with golf fairways as interpreted by shape and context.</p> <p><b>Surrounding Area:</b> A golf course adjoins the Property to the north. Forested vacant land, followed by small structures and roadway s located south of the Property. West of the Property is Lester River Road and Lester River, followed by additional vacant forestland. Land east of the Property appears as roadway, followed by vacant forested land.</p>
2010, 2013, 2016, 2019, 2022	<p><b>Property:</b> The Property appears as vacant land. Forest cover appears minimal as depicted in each map except for 2010, which does not depict vegetation.</p> <p><b>Surrounding Area:</b> Lester Park Municipal Golf Course is indicated on the 2010 and 2013 maps to the north but absent from later maps. With the exception of previously-existing roadway and railroad to the south and east, no other structures are depicted on the adjoining properties.</p>

Based on the review of historic topographic maps, the Property and surrounding area appeared similar to the aerial photographs. Indications of RECs in association with the Property were not identified during review of the historical USGS Topographic Quadrangle maps.

#### 4.3.6 City Directories

Bay West retained EnviroSite to provide city directories for W Michigan Street (1942, 1946, 1964, 1969, 1974, 1976, 1979, 1984, 1989, 1992, 1995, 2000, 2005, 2010, 2014 and 2017). Copies of the city directories are included in **Appendix H**.

City directory listings for the Property were not available. The Property reference street – Lester River Road – was not listed in the city directories between 1902 and 1960. Regular (i.e. site-specific) street address numbers were not available for Lester River Road prior to 1989. The following is a summary of the city directory listings for Property and the surrounding area:

Year	Comments
1960	<p><b>Property:</b> No listings available</p> <p><b>Surrounding Area:</b> Lester River Road – Lester Park Golf Club, Coffee Time Catering Service, Champion Children’s Home, residential  6245 – 6815 E Superior St – residential</p>
1964	<p><b>Property:</b> No listings available</p> <p><b>Surrounding Area:</b> Lester River Road - Lester Park Municipal Golf Course, Lester Park Golf Club Lunch Room, Hilltop House Catering Service, residential  6245 – 6815 E Superior St – residential</p>
1968	<p><b>Property:</b> No listings available</p> <p><b>Surrounding Area:</b> Lester River Road – Lakeview American Legion Club, Champion Children’s Home, Lester Park Municipal Golf Course, Lester Park Golf Club Lunch Room, Hilltop Catering Service, residential  6245 – 6815 E Superior St – residential</p>
1973 - 1983	<p><b>Property:</b> No listings available</p> <p><b>Surrounding Area:</b> Lester River Road – Lakeview American Legion Club No 342, Lester Park Municipal Golf Course, Lester Park Golf Club Lunch Room, residential  6245 – 6815 E Superior St – residential</p>
1988	<p><b>Property:</b> No listings available</p> <p><b>Surrounding Area:</b> 1860 Lester River Road – Lester Park Municipal Golf Course, Lester Park Golf Club Lunch Room, Roy Alexander  6245 – 6815 E Superior St – residential</p>
1993	<p><b>Property:</b> No listings available</p>



Year	Comments
	<b>Surrounding Area:</b> 1860 Lester River Road – Lester Park Municipal Golf Course, Lester Park Golf Club Lunch Room, vacant. 1821 Lester River Road – Lester Park Nature Trail 342 Lester River Road – Lakeview American Legion Club 1877 Lester River Road – residential 6245 – 6304 E Superior St –residential 6809 E Superior St – State of MN storage
1998	<b>Property:</b> No listings available <b>Surrounding Area:</b> 1860 Lester River Road – residential 6300-6500 E Superior St – residential
2001	<b>Property:</b> No listings available <b>Surrounding Area:</b> 1860 Lester River Road – Lester Park Golf Club 6300-6500 E Superior St – residential
2006 - 2010	<b>Property:</b> No listings available <b>Surrounding Area:</b> 1860 Lester River Road – Lester Park Golf Club, residential, Men's 18 Hole Golf 6300-6500 E Superior St – residential
2015	<b>Property:</b> No listings available <b>Surrounding Area:</b> 1860 Lester River Road – Lester Park Golf Club, Men's 18 Hole Golf 6300-6500 E Superior St – residential
2018	<b>Property:</b> No listings available <b>Surrounding Area:</b> 1860 Lester River Road – Men's 18 Hole Golf 6300-6500 E Superior St – residential

The Property did not appear in city directories from the records searched. Surrounding properties consisted of the Lester Park Golf Club, a catering company, an American Legion Club, a children's home, and various residences. Based on this information, no RECs were identified for the Property associated with the city directory review.

#### 4.3.7 Local Government Records

Bay West contacted the following individuals to obtain knowledge or historical and current land-use information regarding the Property:

- Kim Seguin, Information Specialist, St. Louis County (County Representative for Environmental Services Department)
- Dawn Anderson, Executive Assistant, City of Duluth Clerk's Office
- Samantha Singer, Executive Assistant, City of Duluth Fire Department

Responses to information request for local government records are summarized in Section 6.1.

#### 4.3.8 Prior Reports

Prior reports were not available nor provided for the Property.



## 5.0 PROPERTY RECONNAISSANCE

The Property reconnaissance was conducted on April 29, 2022 by Erik Nimlos, Bay West Environmental Professional. At the time of the Property reconnaissance, the weather was overcast with light rain and approximately 40 degrees Fahrenheit. The following is a summary of visual and/or physical observations of the Property on the day of the Property visit. Photographs are included in **Appendix I**.

### 5.1 Methodology and Limiting Conditions

The Property reconnaissance consisted of a visual inspection in accordance with the requirements set forth in 40 CFR Part 312 of the Property and observations of the perimeter area of the Property to determine the presence of objects of environmental concern.

### 5.2 Land-Surface and Property Use Observations

The Property was vacant, as evidenced by the lack of staffing or permanent infrastructure with the exception of various asphalt-paved paths observed along the former fairways of the Lester Park Golf Course. The Property itself was either undeveloped forested land or unmaintained golf fairway. Transitory dwellings were observed on the western side of the Property, appearing as a homeless encampment with approximately five pitched tents.

### 5.3 Surface-Water Observations

Surface water features were not observed on the Property.

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

No evidence of Aboveground or Underground Storage Tanks (ASTs/USTs) was observed at the time of Property reconnaissance.

### 5.5 Hazardous Substance Use, Storage, and Disposal

No evidence of hazardous substance use, storage or disposal was observed at the time of Property reconnaissance.

### 5.6 Petroleum Products Use, Storage, and Disposal

No evidence of petroleum product use, storage or disposal were observed at the time of Property reconnaissance.

### 5.7 Polychlorinated Biphenyls (PCBs)

Electrical transformers, fluorescent light ballasts, window caulking, or other historical sources of PCBs were not observed at the time of the Property reconnaissance.

### 5.8 Waste Disposal

Four 55-gallon steel drums containing rainwater or empty food/beverage containers were observed along the fairway on the western side of the Property. No visual/olfactory evidence of hazardous waste was observed on or in the vicinity of the drums at the time of the Property reconnaissance.

### 5.9 Wastewater Discharges

No wastewater discharges were observed on the Property at the time of the reconnaissance.

### 5.10 Wells

No wells were observed on the Property during Property reconnaissance.



### **5.11 Pesticides and Herbicides**

Bay West did not observe evidence of use or storage of pesticides or herbicides on the Property at the time of the reconnaissance, with the exception of the presence of historical golf course operations suggesting their historical use.

### **5.12 Surrounding Property Review**

Bay West conducted a visual survey of the adjoining facilities from the Property and public vantage points such as streets.

North of the Property is the remainder of the former Lester Park Golf Course, including a clubhouse, parking lot, and storage shed. East of the Property is Highway 61 and E Superior Street to the southeast. Southwest of the Property is an assisted living care facility and medical clinic. West of the Property is Lester River Road, followed by Lester River and parkland.

Evidence of RECs in association with the Property were not observed in the surrounding area.



## 6.0 INTERVIEWS

The objective of conducting interviews is to obtain information concerning RECs in connection with the Property. This information was obtained verbally and by email, as indicated below. Interviewees were cooperative and forthcoming with information, unless otherwise specified. Contact information for all individuals interviewed is included in table below:

**Interview Summary**

Role	Name/Contact	Title/Company	Years Assoc. with Property	Contact Type
User	Theresa Bajda 218-730-5303 tbajda@duluthmn.gov	Planner II / City of Duluth	Unknown	Phone/Email
Local Government City Hall	Dawn Anderson dmanderson@duluthmn.gov	Executive Assistant/City of Duluth	Unknown	Email
Local Government Fire Department	Samantha Singer ssinger@duluthmn.gov	Executive Assistant/City of Duluth	Unknown	Email
Local Government Environmental Services	Kimberly Seguin 218-725-5200 seguink@stlouiscountymn.gov	Information Specialist II/St. Louis County	Unknown	Email

### 6.1 Interview with User

Bay West interviewed Ms. Theresa Bajda, a representative for the City of Duluth and the User, for information regarding the Property use, history, and potential environmental concerns at the Property. Ms. Bajda was not aware of any environmental concerns in association with the Property.

### 6.2 Interview with Local Government Officials

Ms. Anderson, a representative of the City of Duluth Clerk's Office, was not aware of any other environmental concerns associated with the Property.

Ms. Singer, a representative of the City of Duluth Fire Department was not aware of any other environmental concerns associated with the Property.

At the issuance of this report, a response is pending from St. Louis County Department of Environmental Services.



## 7.0 FINDINGS AND OPINIONS

Bay West has identified the following known or suspect environmental conditions in connection with the Property during this Phase I ESA:

- Based on review of the historical aerial photographs, historical maps, and city directories, the Property was historically undisturbed with the exception of a few utility line clearings until the late 1980s when portions were added onto the existing Lester Park Golf Course to the north. The onsite golf course continued operation until the late 2010s after which the golf fairways were left unmaintained. Review of the historical records did not identify RECs in association with the Property.
- At present, the Property remains unimproved with the exception of asphalt-paved walkways associated with the former golf course. A homeless encampment was observed along the western edge of the Property and scattered non-hazardous waste materials – including four empty drums containing rainwater and food wrappers – were observed during the visual reconnaissance. Evidence of RECs were not observed at the time of the Property reconnaissance.
- Bay West identified two environmentally regulated facilities adjoining the Property, Lester River Medical Clinic and Lester Park Golf Course. Lester River Medical Clinic, located approximately 150 feet down-gradient of the Property, is a minimal quantity hazardous waste generator with no recorded violations against their hazardous waste status. Lester Park Golf Course operated under a pesticide applicator license with the MDA in order to maintain the golf course fairways and grounds; no issues were identified with the facility's agricultural licensed activities. A release of petroleum from an underground storage tank (becoming Leak Site #2536) was reported at the Lester Park Golf Course maintenance garage – located 2,100 feet cross-gradient of the Property – in 1990. Following additional investigation and removal of approximately 400 cubic yards of contaminated soil, the Leak Site was closed by the MPCA in 1998. These facilities are not considered to represent RECs for the Property.
- The surrounding area was historically vacant land to the west, the golf course to the north, roadway and railway to the east, and residences to the south. Additional nearby uses noted in historical city directories included a children's home, catering business, and American Legion Club location. With the exception of improvements to Highway 61 to the east and construction of an assisted living facility and medical clinic to the south, the surrounding area has remained similar in development and use since at least the 1930s through the present. Indications of RECs in association with the Property were not identified on the surrounding properties.



## **8.0 CONCLUSIONS**

Bay West has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527 of the Lester Park Redevelopment, located on 1860 Lester River Rd in Duluth, St. Louis County, Minnesota. Any exceptions to, or deletions from, this practice are described in **Section 1.5** of this report. Bay West's assessment did not reveal any RECs, CRECs, HRECs, or VECs in association with the Property. With respect to environmental conditions at the Property, Bay West makes the following recommendation:

- Portions of the Property have been improved as a golf course for at least 30 years based on historical record review. As noted in the regulatory database review, the former operator – Lester Park Golf Course – was a licensed pesticide and herbicide applicator in order to maintain the grounds of the course. The legal application (i.e. in accordance with manufacturer's specifications and best practices) of such substances, in the course of standard operational practices does not constitute a "release to the environment." Therefore, the User should take into consideration the historical use of the Property and the potential presence of various agricultural chemicals in the soil and groundwater when undertaking any site development activities.



## 9.0 REFERENCES

- Adams, Roberta, 2016. Depth to Water Table, Minnesota Geological Survey (MGS) Minnesota Hydrogeology Atlas Series Atlas HG-03, Plate 2 of 2. Retrieved May 2022 from:  
[https://files.dnr.state.mn.us/waters/groundwater\\_section/mapping/mha/hg03\\_plate2.pdf](https://files.dnr.state.mn.us/waters/groundwater_section/mapping/mha/hg03_plate2.pdf)
- American Society for Testing and Materials (ASTM), 2015. Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions E2600-15.
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- Minnesota Department of Health (MDH), 2022. County Well Index. Retrieved May 2022 from: <http://www.health.state.mn.us/divs/eh/cwi/>
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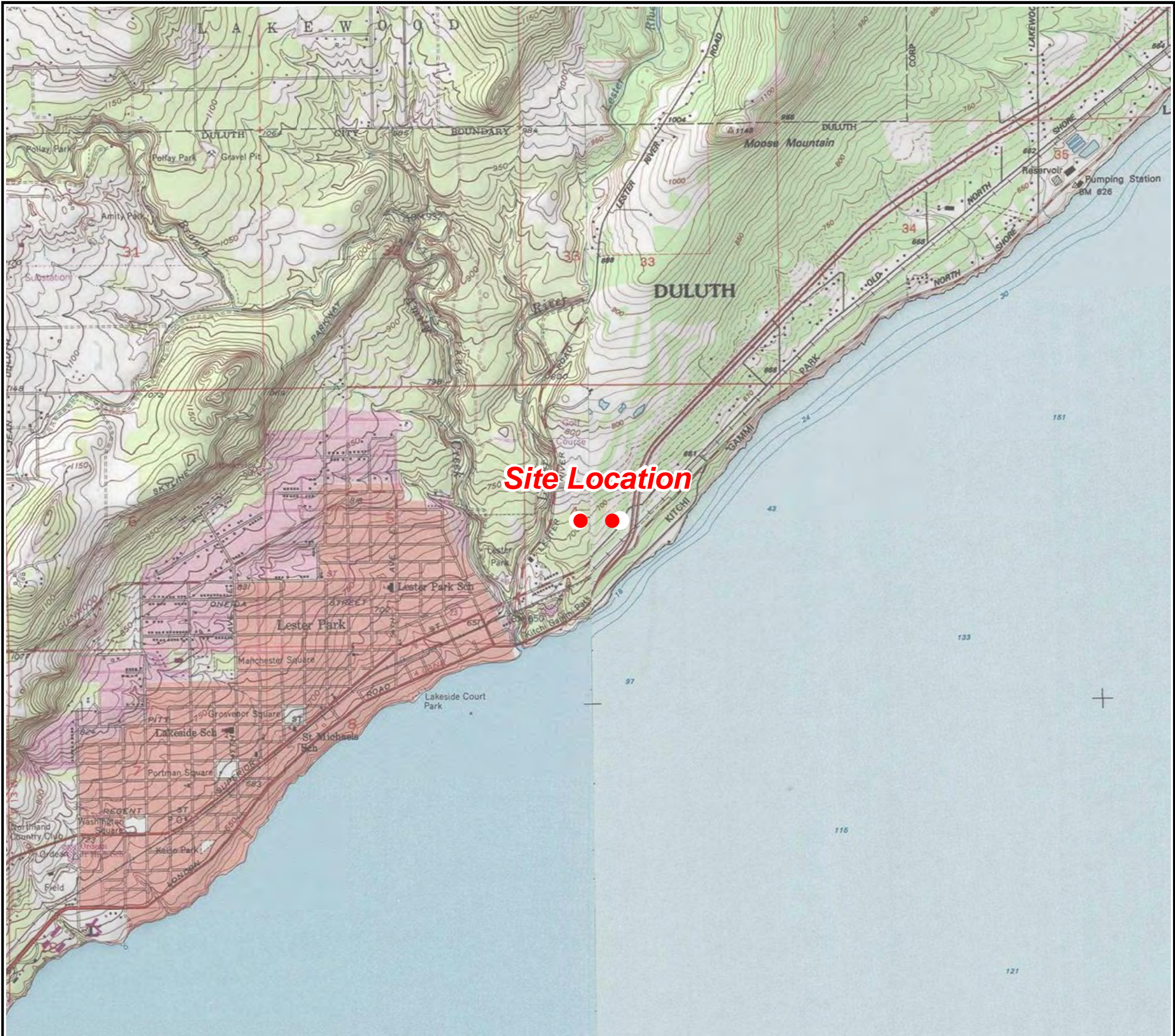


## **Appendix A**

### **Property Location and Property Maps**



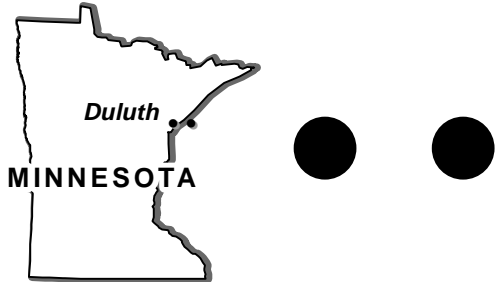
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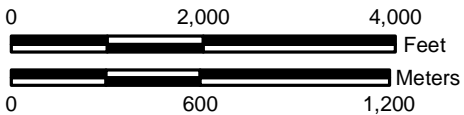
# Figure 1 Site Location Map

Lester Park Phase I ESA

Duluth, MN 55804



Map Projection: NAD 1983 UTM Zone 15 N, Meters  
Basemap: ESRI USA Topo Maps WMS



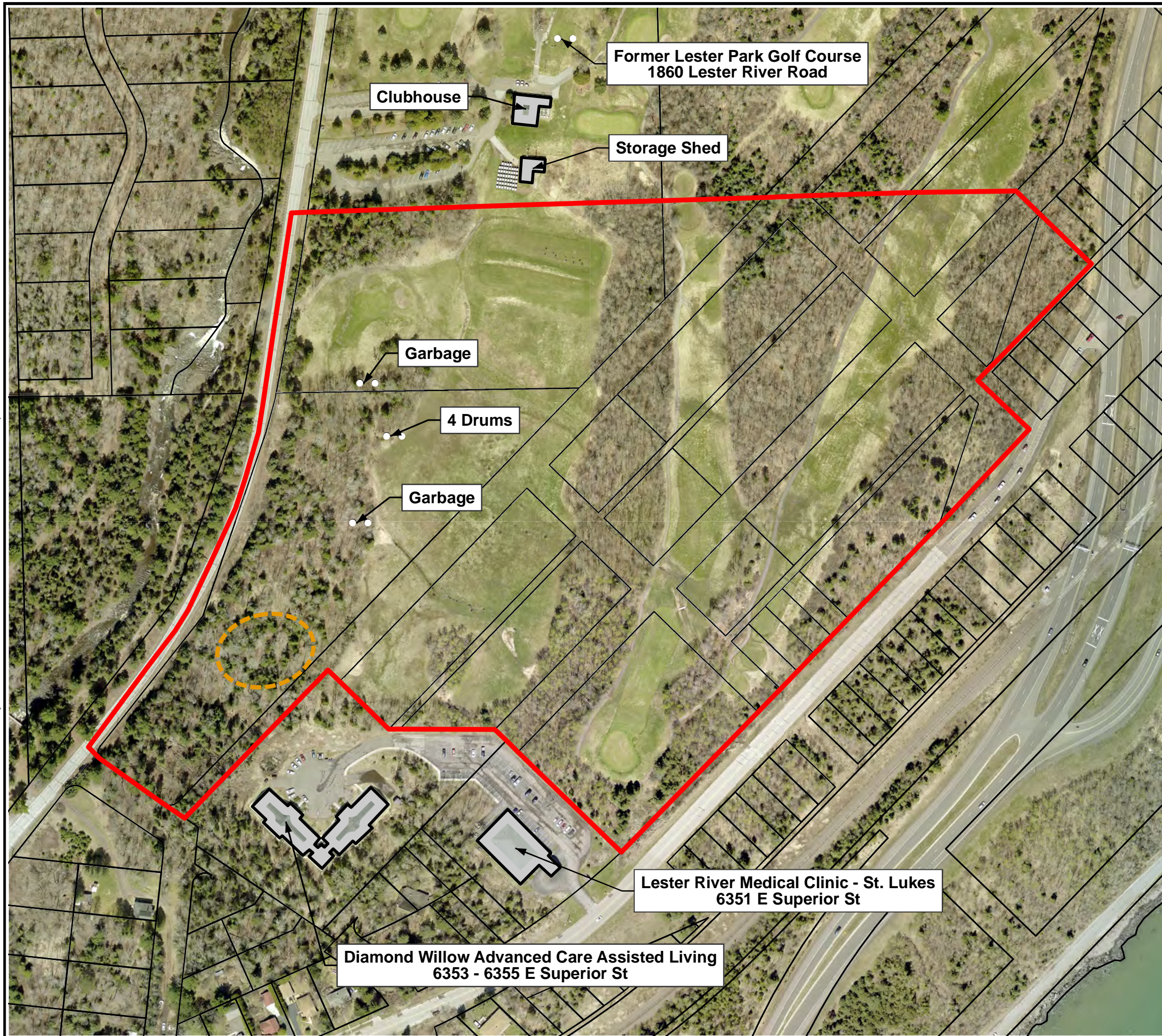
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 Site Location





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**Figure 2**

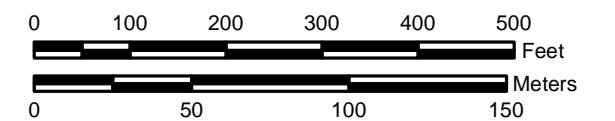
**Site Map**

**Lester Park Phase I ESA**

Duluth, MN 55804



Map Projection: NAD 1983 UTM Zone 15 N, Meters  
Basemap: Saint Louis County Aerial Imagery WMS, 2019



- Site Features
- Approximate Extent of Homeless Encampment
- Site Boundary
- Parcel Boundaries





## **Appendix B**

### **User Questionnaire**





## PHASE I ENVIRONMENTAL ASSESSMENT CLIENT QUESTIONNAIRE

Per ASTM Standard Practice E 1527-13, Section 6, User Responsibilities, the User of an ESA has specific obligations for performing tasks during the ESA that will help identify the possibility of *recognized environmental conditions* in connection with the Site. Failure by the User to fully comply with the requirements may result in a *data gap* being identified in the report and may impact their ability to use the report to help qualify for *Landowner Liability Protections* (LLPs) under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). If this questionnaire is not returned to BAY WEST prior to issuance of the draft report, then Bay West assumes that the User does not have any information or actual knowledge pursuant to ASTM Standard Practice E 1527-13, Section 6, User Responsibilities. Bay West makes no representations or warranties regarding a User's qualification for protection under any federal, state or local laws, rules or regulations.

Please complete the following and return immediately via email or fax to the attention of:  
[Erik Nimlos of Bay West at enimlos@baywest.com](mailto:enimlos@baywest.com).

If other parties are intending to be the Users of the ESA report, then please forward a copy of this questionnaire for them to complete and return to Bay West.

Site Name: [Lester Park Redevelopment](#)

Site Address: [Lester River Rd and E Superior St, Duluth, MN 55804](#)

Bay West Project Number: [J220163](#)

Please provide the following information (if available) per the requirements of ASTM E 1527-13.

**1. Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25)**

Are you aware of any environmental cleanup liens against the site that are filed or recorded under federal, tribal, state or local law? Yes ☐ or No ☒ If yes, please provide a description of the lien(s).

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5. Commonly known or reasonably ascertainable information about the site (40 CFR 312.30)

Are you aware of commonly known or reasonably ascertainable information about the site that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,

a. Do you know the past uses of the site? Yes ☒ or No ☐ If yes, please state.

~~Public golf course~~ Public golf course

b. Do you know of specific chemicals that are present or once were present at the site? Yes ☐ or No ☒ If yes, please state.

c. Do you know of spills or other chemical releases that have taken place at the site? Yes ☒ or No ☐ If yes, please state.

Leak Site LEAK 00002536 received  
MPCA site closure.

6. Do you know of any environmental cleanups that have taken place at the site? Yes ☐ or No ☒ If yes, please state.





# Minnesota Pollution Control Agency

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July 8, 1998

Mr Chuck Faegre  
City of Duluth  
313 City Hall  
Duluth, Minnesota 55802

RE: Petroleum Tank Release Site File Closure  
Site: Lester Park Golf Course, 1860 Lester River Road, Duluth  
Site ID# LEAK00002536

Dear Mr. Faegre:

We are pleased to let you know that the Minnesota Pollution Control Agency (MPCA) Tanks and Emergency Response Section (TERS) staff has determined that your investigation and/or cleanup has adequately addressed the petroleum tank release at the site listed above. Based on the information provided, the TERS staff has closed the release site file

Closure of the file means that the TERS staff does not require any additional investigation and/or cleanup work at this time or in the foreseeable future. Please be aware that file closure does not necessarily mean that all petroleum contamination has been removed from this site. However, the TERS staff has concluded that any remaining contamination, if present, does not appear to pose a threat to public health or the environment.

The MPCA reserves the right to reopen this file and to require additional investigation and/or cleanup work if new information or changing regulatory requirements make additional work necessary. If you or other parties discover additional contamination (either petroleum or nonpetroleum) that was not previously reported to the MPCA, Minnesota law requires that the MPCA be immediately notified.

You should understand that this letter does not release any party from liability for the petroleum contamination under Minn Stat ch 115C (Supp. 1997) or any other applicable state or federal law. In addition, this letter does not release any party from liability for nonpetroleum contamination, if present, under Minn Stat ch. 115B (1996), the Minnesota Superfund Law.

The monitoring wells for this site should be abandoned in accordance with the Minnesota Department of Health Well Code, Chapter 4725. If you choose to keep the monitoring wells, the Minnesota Department of Health will continue to assess a maintenance fee for each well.



Mr. Chuck Faegre  
Page 2  
July 8, 1998

Because you performed the requested work, the state may reimburse you for a major portion of your costs. The Petroleum Tank Release Cleanup Act establishes a fund which may provide partial reimbursement for petroleum tank release cleanup costs. This fund is administered by the Department of Commerce Petro Board. Specific eligibility rules are available from the Petro Board at 612/297-1119 or 612/297-4203.

If future development of this property or the surrounding area is planned, it should be assumed that petroleum contamination may still be present. If petroleum contamination is encountered during future development work, the MPCA staff should be notified immediately.

For specific information regarding petroleum contamination that may remain at this leak site, please call the TERS File Request Program at 612/297-8499. The MPCA fact sheet #335 *Leak/Spill and Underground Storage Tank File Request Form* (April 1997) must be completed prior to arranging a time for file review.

Thank you for your response to this petroleum tank release and for your cooperation with the MPCA to protect public health and the environment. If you have any questions regarding this letter, please call me at 612/297-8607.

Sincerely,

*Lisa Hersch*

For James Joslyn  
Project Manager  
Cleanup Unit II  
Tanks and Emergency Response Section

JAJ lh

cc. Jeffrey Cox, City Clerk, Duluth  
Duane Flynn, Fire Chief, Duluth  
Ted Troolin, St. Louis County Solid Waste Officer  
Guy Partch, Remediation Service Inc., Duluth  
Minnesota Department of Commerce, Petrofund Staff



## **Appendix C**

### **Regulatory Database Report**





Government Records  
Report | 2022  
With Platinum Review

Order Number: 71089

Report Generated: 04/26/2022

Project Name: Lester Park Ph I ESA

Project Number: J220163

Lester Park 4th Division  
6401 E Superior St  
Duluth, MN 55804

with [Envirosite Atlas](#)

---

2 Corporate Drive  
Suite 450  
Shelton, CT 06484  
Toll Free: 866-211-2028  
[www.envirositecorp.com](http://www.envirositecorp.com)



Section	Page
<u>Executive Summary</u>	<u>1</u>
<u>Executive Summary by Distance</u>	<u>2</u>
<u>Executive Summary by Database</u>	<u>3</u>
<u>Property Proximity Map</u>	<u>12</u>
<u>Area Map</u>	<u>13</u>
<u>Map Findings Summary</u>	<u>14</u>
<u>Map Findings</u>	<u>21</u>
<u>Unmappable Summary</u>	<u>78</u>
<u>Environmental Records Searched</u>	<u>79</u>
<u>Geological Landscape Section</u>	<u>101</u>
<u>Geological Landscape Section Soil Map</u>	<u>104</u>
<u>Geological Landscape Section Summary</u>	<u>105</u>
<u>Geological Findings Map</u>	<u>125</u>
<u>Geological Landscape Section Map Findings</u>	<u>126</u>
<u>Geological Landscape Section Map Findings Radon</u>	<u>157</u>
<u>Geological Landscape Records Searched</u>	<u>158</u>

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Envirosite Corporation has conducted a search of all reasonably ascertainable records in accordance with EPA's AAI (40 CFR Part 312) requirements and the ASTM E-1527-21 Environmental Site Assessments standard.

**SUBJECT PROPERTY INFORMATION:****ADDRESS:**

Lester Park 4th Division  
6401 E Superior St  
Duluth, MN 55804

**COORDINATES:**

Latitude (North):	46.843605 - 46°50'37"
Longitude (West):	-92.000675 - -92°0'2.4"
Universal Transverse Mercator:	Zone 15N
UTM X (Meters):	576195.41
UTM Y (Meters):	5188269.52
State Plane Coordinates:	2201 - Minnesota North (US Survey Feet)
X Coordinate (Feet):	2899782.183 E
Y Coordinate (Feet):	455370.186 N

**ELEVATION:**

Elevation: 696 ft. above sea level

**USGS TOPOGRAPHIC MAP ASSOCIATED WITH SUBJECT PROPERTY:**

Subject Property Map: 46091-G8 Lakewood, MN  
Most Recent Revision: 2019

Subject Property Map: 46092-G1 Duluth, MN  
Most Recent Revision: 2019



<u>MAP ID</u>	<u>SITE NAME</u>	<u>ADDRESS</u>	<u>DATABASE(S)</u>	<u>RELATIVE ELEVATION</u>	<u>DIRECTION / DISTANCE</u>
<b>A1</b>	LESTER RIVER MEDICAL CLINIC	6351 E SUPERIOR ST   6351...	FRS, HWG - MN	Lower	SSW / 0.032 mi., 168 ft.
<b>A2</b>	Lester River Medical Clinic	6351 Superior St	HWG - MN	Lower	SSW / 0.032 mi., 168 ft.
<b>3</b>	Hinzmann Residential Mercury Spill   ...	6304 East Superior St	HIST SPILLS - MN, SPILLS - MN	Lower	SSW / 0.082 mi., 433 ft.
<b>4</b>	US EPA - MED-DULUTH   Evironmental...	6201 CONGDON BLVD   6201...	WIMN - MN	Lower	SSW / 0.214 mi., 1128...
<b>5</b>	LESTERWOOD APARTMENTS	6025 E SUPERIOR ST	WIMN - MN	Lower	WSW / 0.262 mi., 1383...
<b>B6</b>	I C O LESTER PARK   Former Lester Pa...	5931 E SUPERIOR ST	EPA LUST, HIST LUST - MN, LUST - MN, WIMN ...	Lower	WSW / 0.326 mi., 1724...
<b>B7</b>	LESTER PARK LAUNDROMAT   Lester ...	5927 E SUPERIOR ST	MPCA SITE ASSESSMENT - MN, SHWS - MN, W...	Lower	WSW / 0.342 mi., 1804...
<b>B8</b>	LESTER PARK SKELLY   Atkinson Servi...	5930 E SUPERIOR ST	EPA LUST, HIST LUST - MN, LUST - MN, WIMN ...	Lower	WSW / 0.345 mi., 1822...
<b>9</b>	LESTER PARK GOLF COURSE   DULUT...	1860 LESTER RIVER RD	AG_LICENSES - MN, AST - MN, ECHO, EPA LUST...	Higher	NNE / 0.355 mi., 1874...
<b>C10</b>	Brunelle Residence	5805 Oneida Ave	LUST - MN	Lower	WSW / 0.371 mi., 1958...
<b>C11</b>	Brunelle Residence	5805 Oneida St	MPCA SITE ASSESSMENT - MN, WIMN - MN	Lower	WSW / 0.371 mi., 1958...
<b>B12</b>	LAKESIDE SUPER ONE FOODS   SUPER...	5928 E SUPERIOR ST   5928...	EPA LUST, HIST LUST - MN, LUST - MN, WIMN ...	Lower	WSW / 0.372 mi., 1964...
<b>13</b>	MELISSA J RESCH	5414 AVONDALE ST	WIMN - MN	Higher	W / 0.493 mi., 2602 ft.



**SUBJECT PROPERTY SEARCH RESULTS:**

The subject property was not listed in any of the databases searched by Envirosite Corporation.

**SEARCH RESULTS:****FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS**

EPA LUST: Releases listed in the EPA UST Finder database **4 SITES FOUND WITHIN .5 MILE**

**EQUAL/HIGHER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
9	LESTER PARK GOLF COURSE   DULUTH CITY OF - LESTER GOLF   LESTER PARK GOLF MANAGEMENT LLC	1860 LESTER RIVER RD	NNE / 0.355 mi., 1874 ft.	42

**LOWER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
B6	I C O LESTER PARK   Former Lester Park Service   Lester Park Service	5931 E SUPERIOR ST	WSW / 0.326 mi., 1724 ft.	27
B8	LESTER PARK SKELLY   Atkinson Service Station   Jims Lester Park Skelly	5930 E SUPERIOR ST	WSW / 0.345 mi., 1822 ft.	38
B12	LAKESIDE SUPER ONE FOODS   SUPER ONE LAKESIDE - DULUTH   MINERS INC DBA SUPER ONE # 455	5928 E SUPERIOR ST   5928 EAST SUPERIOR ST	WSW / 0.372 mi., 1964 ft.	73

HIST LUST - MN: Historical listing of leaking storage tank incidents **4 SITES FOUND WITHIN .5 MILE**

**EQUAL/HIGHER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
9	LESTER PARK GOLF COURSE   DULUTH CITY OF - LESTER GOLF   LESTER PARK GOLF MANAGEMENT LLC	1860 LESTER RIVER RD	NNE / 0.355 mi., 1874 ft.	42
	- ID: Site ID 55936	Status: INACTIVE	Date: 2014-11-10	
	- ID: Program ID 215335	Status: N/A	Date: 1998-07-08	

**LOWER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
B6	I C O LESTER PARK   Former Lester Park Service   Lester Park Service	5931 E SUPERIOR ST	WSW / 0.326 mi., 1724 ft.	27
	- ID: Site ID 22935	Status: INACTIVE	Date: 2014-11-10	
	- ID: Program ID 298293	Status: N/A	Date: 2004-11-22	
	- ID: Site ID 22935	Status: INACTIVE	Date: 2013-03-19	
	- ID: Program ID 223379	Status: N/A	Date: 2000-06-22	
B8	LESTER PARK SKELLY   Atkinson Service Station   Jims Lester Park Skelly	5930 E SUPERIOR ST	WSW / 0.345 mi., 1822 ft.	38
	- ID: Site ID 23099	Status: INACTIVE	Date: 2014-11-10	
	- ID: Program ID 213076	Status: N/A	Date: 1990-04-01	
B12	LAKESIDE SUPER ONE FOODS   SUPER ONE LAKESIDE - DULUTH   MINERS INC DBA SUPER ONE # 455	5928 E SUPERIOR ST   5928 EAST SUPERIOR ST	WSW / 0.372 mi., 1964 ft.	73
	- ID: Site ID 270255	Status: INACTIVE	Date: 2014-11-10	



**FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)**HIST LUST - MN: Historical listing of leaking storage tank incidents **4 SITES FOUND WITHIN .5 MILE****LOWER ELEVATION (cont.)**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
	- ID: Program ID 436980	Status: N/A	Date: 2009-10-30	

LUST - MN: Listing of leaking storage tank incident **5 SITES FOUND WITHIN .5 MILE****EQUAL/HIGHER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
9	LESTER PARK GOLF COURSE   DULUTH CITY OF - LESTER GOLF   LESTER PARK GOLF MANAGEMENT LLC	1860 LESTER RIVER RD	NNE / 0.355 mi., 1874 ft.	42
	- ID: Project ID LS0002536	Status: Closed	Date: N/A	
	- ID: Activity ID SIW19900001	Status: N/A	Date: Site Closed 1998-07-08	

**LOWER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
B6	I C O LESTER PARK   Former Lester Park Service   Lester Park Service	5931 E SUPERIOR ST	WSW / 0.326 mi., 1724 ft.	27
	- ID: Project ID LS0015815	Status: Closed	Date: N/A	
	- ID: Activity ID SIW20040001	Status: N/A	Date: Site Closed 2004-11-22	
	- ID: Project ID LS0010955	Status: Closed	Date: N/A	
	- ID: Activity ID SIW19970001	Status: N/A	Date: Site Closed 2000-06-22	
B8	LESTER PARK SKELLY   Atkinson Service Station   Jims Lester Park Skelly	5930 E SUPERIOR ST	WSW / 0.345 mi., 1822 ft.	38
	- ID: Project ID LS0000058	Status: Closed	Date: N/A	
	- ID: Activity ID SIW19860001	Status: N/A	Date: Site Closed 1990-04-01	
C10	Brunelle Residence	5805 Oneida Ave	WSW / 0.371 mi., 1958 ft.	69
	- ID: Project ID LS0020273	Status: Closed	Date: N/A	
	- ID: Activity ID SIW20160001	Status: N/A	Date: Site Closed 2017-12-22	
B12	LAKESIDE SUPER ONE FOODS   SUPER ONE LAKESIDE - DULUTH   MINERS INC DBA SUPER ONE # 455	5928 E SUPERIOR ST   5928 EAST SUPERIOR ST	WSW / 0.372 mi., 1964 ft.	73
	- ID: Project ID LS0016874	Status: Closed	Date: N/A	
	- ID: Activity ID SIW20070001	Status: N/A	Date: Site Closed 2009-10-30	

**STATE RCRA GENERATORS LIST**HWG - MN: Listing of permitted hazardous waste generators **2 SITES FOUND WITHIN .25 MILE****LOWER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
A1	LESTER RIVER MEDICAL CLINIC	6351 E SUPERIOR ST   6351 E Superior St (null)	SSW / 0.032 mi., 168 ft.	21
	- ID: Site ID 134735	Status: N/A	Date: N/A	



**STATE RCRA GENERATORS LIST (cont.)**HWG - MN: Listing of permitted hazardous waste generators **2 SITES FOUND WITHIN .25 MILE****LOWER ELEVATION (cont.)**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
A2	- ID: Activity ID MNS000153239	Status: ACTIVE	Date: N/A	22
	Lester River Medical Clinic	6351 Superior St	SSW / 0.032 mi., 168 ft.	
	- ID: Site ID 134735	Status: N/A	Date: N/A	
	- ID: Activity ID MNS000153239	Status: ACTIVE	Date: N/A	

**STATE- AND TRIBAL - EQUIVALENT CERCLIS**SHWS - MN: Hazardous Waste RCRA and Integrated Remediation projects **1 SITE FOUND WITHIN 1 MILE****LOWER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
B7	LESTER PARK LAUNDROMAT   Lester Park Soil Vapor	5927 E SUPERIOR ST	WSW / 0.342 mi., 1804 ft.	35
	- ID: Site ID 57743	Status: N/A	Date: N/A	
	- ID: Activity ID SA4577	Status: Inactive	Date: N/A	

**RECORDS OF EMERGENCY RELEASE REPORTS**HIST SPILLS - MN: Historical locations with known contamination from spills. **1 SITE FOUND WITHIN .125 MILE****LOWER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
3	Hinzmann Residential Mercury Spill   Stacie Hinzmann - Residential Mercury Spill	6304 East Superior St	SSW / 0.082 mi., 433 ft.	22
	- ID: 63579426	Status: Response Completed	Date: Spill Site Closure 2012-10-26	
	- ID: 63579424	Status: Closed, Other (See Remarks)	Date: Spill Site Closure 2012-08-20	

SPILLS - MN: Locations with known contamination from spills **1 SITE FOUND WITHIN .125 MILE****LOWER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
3	Hinzmann Residential Mercury Spill   Stacie Hinzmann - Residential Mercury Spill	6304 East Superior St	SSW / 0.082 mi., 433 ft.	22
	- ID: 84799	Status: Closed or Completed	Date: Incident_Date 2012- 06-20	
	- ID: 84800	Status: Closed or Completed	Date: Incident_Date 2012- 08-12	



**LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES**MPCA SITE ASSESSMENT - MN: MPCA Site Assessment listing **2 SITES FOUND WITHIN .5 MILE****LOWER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
B7	LESTER PARK LAUNDROMAT   Lester Park Soil Vapor	5927 E SUPERIOR ST	WSW / 0.342 mi., 1804 ft.	35
	- ID: Project ID SA0004577	Status: Closed	Date: N/A	
	- ID: Activity ID SIW20120001	Status: N/A	Date: Site Closed 2009-10-21	
C11	Brunelle Residence	5805 Oneida St	WSW / 0.371 mi., 1958 ft.	70
	- ID: Project ID SA0000406	Status: Closed	Date: N/A	
	- ID: Activity ID SIW20180001	Status: N/A	Date: Site Closed 2018-06-28	

**OTHER ASCERTAINABLE RECORDS**WIMN - MN: Listing of WIMN sites involved in the site assessments, emergency management, environmental review, petroleum tanks, and other programs **9 SITES FOUND WITHIN .5 MILE****EQUAL/HIGHER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
9	LESTER PARK GOLF COURSE   DULUTH CITY OF - LESTER GOLF   LESTER PARK GOLF MANAGEMENT LLC	1860 LESTER RIVER RD	NNE / 0.355 mi., 1874 ft.	42
	- ID: Site ID 42034	Status: N/A	Date: N/A	
	- ID: Activity ID LS0002536	Status: INACTIVE	Date: N/A	
	- ID: Activity ID TS0005358	Status: ACTIVE	Date: N/A	
13	MELISSA J RESCH	5414 AVONDALE ST	W / 0.493 mi., 2602 ft.	77
	- ID: Site ID 206051	Status: N/A	Date: N/A	
	- ID: Activity ID C8349	Status: ACTIVE	Date: N/A	

**LOWER ELEVATION**

<u>MAP ID</u>	<u>SITE NAME</u>	<u>SITE ADDRESS</u>	<u>DIRECTION/DISTANCE</u>	<u>PAGE</u>
4	US EPA - MED-DULUTH   Environmental Research Laboratory-duluth   US EPA - GLTED	6201 CONGDON BLVD   6201 CONGDON BLVD T50N R13W SEC 4 ST LOUIS CTY   6201 CONGDON BOULEVARD NATIONAL HEALTH & ENVIRONMENTAL EFFECT RESEARCH LABORATORY	SSW / 0.214 mi., 1128 ft.	26
	- ID: Site ID 2425	Status: N/A	Date: N/A	
	- ID: Activity ID TS0005020	Status: ACTIVE	Date: N/A	
5	LESTERWOOD APARTMENTS	6025 E SUPERIOR ST	WSW / 0.262 mi., 1383 ft.	26
	- ID: Site ID 108245	Status: N/A	Date: N/A	
	- ID: Activity ID TS0020677	Status: INACTIVE	Date: N/A	
B6	I C O LESTER PARK   Former Lester Park Service   Lester Park Service	5931 E SUPERIOR ST	WSW / 0.326 mi., 1724 ft.	27
	- ID: Site ID 26410	Status: N/A	Date: N/A	
	- ID: Activity ID LS0010955	Status: INACTIVE	Date: N/A	
	- ID: Activity ID LS0015815	Status: INACTIVE	Date: N/A	
	- ID: Activity ID TS0014657	Status: INACTIVE	Date: N/A	



**OTHER ASCERTAINABLE RECORDS (cont.)**

WIMN - MN: Listing of WIMN sites involved in the site assessments, emergency management, environmental review, petroleum tanks, and other programs **9 SITES FOUND WITHIN .5 MILE**

**LOWER ELEVATION (cont.)**

<b>MAP ID</b>	<b>SITE NAME</b>	<b>SITE ADDRESS</b>	<b>DIRECTION/DISTANCE</b>	<b>PAGE</b>
B7	LESTER PARK LAUNDROMAT   Lester Park Soil Vapor	5927 E SUPERIOR ST	WSW / 0.342 mi., 1804 ft.	35
	- ID: Site ID 40838	Status: N/A	Date: N/A	
	- ID: Activity ID SA0004577	Status: INACTIVE	Date: N/A	
B8	LESTER PARK SKELLY   Atkinson Service Station   Jims Lester Park Skelly	5930 E SUPERIOR ST	WSW / 0.345 mi., 1822 ft.	38
	- ID: Site ID 23367	Status: N/A	Date: N/A	
	- ID: Activity ID LS0000058	Status: INACTIVE	Date: N/A	
	- ID: Activity ID TS0005270	Status: INACTIVE	Date: N/A	
C11	Brunelle Residence	5805 Oneida St	WSW / 0.371 mi., 1958 ft.	70
	- ID: Site ID 214403	Status: N/A	Date: N/A	
	- ID: Activity ID LS0020273	Status: INACTIVE	Date: N/A	
	- ID: Activity ID SA0000406	Status: INACTIVE	Date: N/A	
B12	LAKESIDE SUPER ONE FOODS   SUPER ONE LAKESIDE - DULUTH   MINERS INC DBA SUPER ONE # 455	5928 E SUPERIOR ST   5928 EAST SUPERIOR ST	WSW / 0.372 mi., 1964 ft.	73
	- ID: Site ID 191569	Status: N/A	Date: N/A	
	- ID: Activity ID LS0016874	Status: INACTIVE	Date: N/A	

Following sites were unable to be mapped.

<b><u>SITE NAME:</u></b>	<b><u>ADDRESS, CITY, ZIP:</u></b>	<b><u>DATABASE(S):</u></b>
Lakewood Express Short Stop	Highway 61 S, Duluth 55804	TALES - MN

**DATABASE(S) WITH NO MAPPED SITES:****FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST**

ARCHIVED RCRA TSDF	Archived Resource Conservation and Recovery Act: Treatment Storage and Disposal Facilities
RCRA_TSDF	Resource Conservation and Recovery Act: Treatment Storage and Disposal Facilities

**FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS**

AST PBS	ASTs at Bulk Petroleum Terminals
EPA UST	EPA UST Finder database
FEMA UST	FEMA Underground Storage Tanks
HIST INDIAN UST R6	Historical Underground Storage Tanks on Indian Land in EPA Region 6
HIST INDIAN UST R7	Historical Underground Storage Tanks on Indian Land in EPA Region 7
INDIAN UST R1	Underground Storage Tanks on Indian Land in EPA Region 1
INDIAN UST R10	Underground Storage Tanks on Indian Land in EPA Region 10
INDIAN UST R2	Underground Storage Tanks on Indian Land in EPA Region 2
INDIAN UST R4	Underground Storage Tanks on Indian Land in EPA Region 4
INDIAN UST R5	Underground Storage Tanks on Indian Land in EPA Region 5
INDIAN UST R6	Underground Storage Tanks on Indian Land in EPA Region 6
INDIAN UST R7	Underground Storage Tanks on Indian Land in EPA Region 7
INDIAN UST R8	Underground Storage Tanks on Indian Land in EPA Region 8
INDIAN UST R9	Underground Storage Tanks on Indian Land in EPA Region 9
AST - MN	Aboveground Storage Tanks
HIST AST - MN	Historical Aboveground Storage Tanks



**FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS (cont.)**

HIST TANK SITES - MN	Historical Storage Tanks
HIST UST - MN	Historical Underground Storage Tank
UST - MN	Underground Storage Tank

**FEDERAL CERCLIS LIST**

CERCLIS NFRAP	Comprehensive Environmental Response Compensation and Liability Act No Further Remedial Action Planned
CERCLIS-HIST	Comprehensive Environmental Response Compensation and Liability Act
EPA SAA	EPA Superfund Alternative Approach
FEDERAL FACILITY	Federal Facility sites
SEMS_8R_ACTIVE SITES	Sites on SEMS Active Site Inventory
SEMS_8R_ARCHIVED SITES	Sites on SEMS Archived Site Inventory

**FEDERAL RCRA CORRACTS FACILITIES LIST**

CORRACTS	Hazardous Waste Corrective Action
HIST CORRACTS 2	Historical Hazardous Waste Corrective Action

**FEDERAL DELISTED NPL SITE LIST**

DELISTED NPL	Delisted National Priority List
DELISTED PROPOSED NPL	Delisted proposed National Priority List
SEMS_DELETED NPL	Sites Deleted from National Priorities List

**FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS**

EPA LF MOP	EPA Landfill Methane Outreach Project Database
------------	--

**FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS**

HIST INDIAN LUST R4	Historical Leaking Underground Storage Tanks on Indian Land in EPA Region 4
HIST INDIAN LUST R8	Historical Leaking Underground Storage Tanks on Indian Land in EPA Region 8
INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land in EPA Region 1
INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land in EPA Region 10
INDIAN LUST R2	Leaking Underground Storage Tanks on Indian Land in EPA Region 2
INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land in EPA Region 4
INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land in EPA Region 5
INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land in EPA Region 6
INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land in EPA Region 7
INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land in EPA Region 8
INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land in EPA Region 9

**FEDERAL ERNS LIST**

ERNS	Emergency Response Notification System
------	--

**FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES**

FED E C	Engineering Controls
FED I C	Institutional Controls
RCRA IC_EC	RCRA sites with Institutional and Engineering Controls

**FEDERAL RCRA GENERATORS LIST**

HIST RCRA_CESQG	Historical Resource Conservation and Recovery Act_Conditionally Exempt Small Quantity Generators
HIST RCRA_LQG	Historical Resource Conservation and Recovery Act_Large Quantity Generators
HIST RCRA_NONGEN	Historical Resource Conservation and Recovery Act_Non Generators
HIST RCRA_SQG	Historical Resource Conservation and Recovery Act_Small Quantity Generators
RCRA_LQG	Resource Conservation and Recovery Act_Large Quantity Generators
RCRA_NONGEN	Resource Conservation and Recovery Act_Non Generators
RCRA_SQG	Resource Conservation and Recovery Act_Small Quantity Generators
RCRA_VSQG	Resource Conservation and Recovery Act_Very Small Quantity Generator



**FEDERAL NPL SITE LIST**

NPL	National Priority List
NPL EPA R1 GIS	GIS for EPA Region 1 NPL
NPL EPA R3 GIS	GIS for EPA Region 3 NPL
NPL EPA R6 GIS	GIS for EPA Region 6 NPL
NPL EPA R8 GIS	GIS for EPA Region 8 NPL
NPL EPA R9 GIS	GIS for EPA Region 9 NPL
PART NPL	Part National Priority List
PROPOSED NPL	Proposed National Priority List
SEMS_FINAL NPL	Sites included on the Final National Priorities List
SEMS_PROPOSED NPL	Sites Proposed to be Added to the National Priorities List

**STATE AND TRIBAL BROWNFIELD SITES**

TRIBAL BROWNFIELDS	Tribal Brownfields
BROWNFIELDS - MN	Brownfields
MPCA BROWNFIELDS - MN	MPCA Brownfields

**STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS**

CLP - MN	Closed Landfill Priority List
SW OTHER - MN	Other solid waste facilities
SWF/LF - MN	Solid Waste Facilities and Landfills

**STATE AND TRIBAL EQUIVALENT DELISTED NPL SITE LIST**

DEL PLP - MN	Delisted Permanent List of Priorities
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**STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES**

HIST I C - MN	Historical Institutional Controls
I C - MN	Institutional Controls

**STATE- AND TRIBAL - EQUIVALENT CERCLIS**

MPCA REMEDIATION - MN	MPCA Remediation Sites
MPCA SUPERFUND - MN	MPCA Superfund Sites
SRS - MN	Site Remediation Section

**STATE- AND TRIBAL - EQUIVALENT NPL**

PLP - MN	Permanent List of Priorities
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**STATE AND TRIBAL VOLUNTARY CLEANUP SITES**

VIC - MN	Voluntary Investigation and Cleanup Program
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**RECORDS OF EMERGENCY RELEASE REPORTS**

HMIRS (DOT)	Hazardous Materials Information Reporting Systems
AG SPILLS - MN	Agriculture Spills
TALES - MN	Tanks Leaks and Spills Database

**LOCAL BROWNFIELD LISTS**

BROWNFIELDS-ACRES	EPA ACRES Brownfields
FED BROWNFIELDS	Federal Brownfields

**LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES**

FED CDL	DOJ Clandestine Drug Labs
US HIST CDL	Historical Clandestine Drug Labs
CDL - MN	Clandestine Drug Labs

**LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES**

HIST INDIAN ODI R8	Historical Open Dump Inventory
INDIAN ODI R8	Open Dump Inventory
ODI	Open Dump Inventory
TRIBAL ODI	Indian Open Dump Inventory Sites
SWRCY - MN	Recycling Facilities



**LOCAL LAND RECORDS**

LIENS 2  
HIST LIENS - MN  
LIENS - MN

CERCLA Lien Information  
Historical Environmental Liens  
Environmental Liens

**OTHER ASCERTAINABLE RECORDS**

AFS  
ALT FUELING  
BRS  
CDC HAZDAT  
COAL ASH DOE  
COAL ASH EPA  
COAL GAS  
COLLEGES  
COLLEGES 2  
CONSENT (DECREEES)  
CORRECTIVE ACTIONS\_2020  
DEBRIS EPA LF  
DEBRIS EPA SWRCY  
DOD  
DOT OPS  
ECHO  
ENOI  
EPA FUELS  
EPA OSC  
EPA WATCH  
FA HWF  
FEDLAND  
FRS  
FTTS  
FTTS INSP  
FUDS  
HIST AFS  
HIST AFS 2  
HIST DOD  
HIST LEAD\_SMELTER  
HIST MLTS  
HIST PCB TRANS  
HIST PCS ENF  
HIST PCS FACILITY  
HIST SSTS  
HOSPITALS  
HWC DOCKET  
ICIS  
INACTIVE PCS  
INDIAN RESERVATION  
LUCIS  
LUCIS 2  
MANIFEST EPA  
MINE OPERATIONS  
MINES  
MINES USGS  
MLTS  
NPL AOC  
NPL LIENS  
NURSING HOMES  
OSHA  
PADS  
PCB TRANSFORMER

Air Facility Systems  
Alternative Fueling Stations  
Biennial Reporting Systems  
Hazardous Substance Release and Health Effects Information  
Coal Ash: Department of Energy  
Coal Ash: Environmental Protection Agency  
Coal Gas Plants  
COLLEGES  
COLLEGES 2  
Superfund Consent Decree  
Wastes - Hazardous Waste - Corrective Action  
EPA Disaster Debris Landfill Sites  
EPA Disaster Debris Recovery Sites  
Department of Defense  
Department of Transportation Office of Pipeline Safety  
EPA Enforcement and Compliance History Online  
Electronic Notice of Intent  
EPA Fuels Registration, Reporting, and Compliance List  
EPA On-Site Coordinator  
EPA Watch List  
Financial Assurance for Hazardous Waste Facilities  
Federal Lands  
Facility Index Systems  
FIFRA/TSCA Tracking System  
FIFRA/TSCA Tracking System: Inspections  
Formerly Used Defense Sites  
Historical Air Facility Systems  
Historical Air Facility Systems  
Department of Defense historical sites  
Historical Lead Smelter Sites  
Historical Material Licensing Tracking Systems  
Historical Polychlorinated Biphenyl (PCB) Facilities  
Historical Enforced Permit Compliance Facilities  
Historical Permit Compliance Facilities  
Historical Section 7 Tracking Systems  
HOSPITALS  
Hazardous Waste Compliance Docket  
Integrated Compliance Information System  
Inactive Permit Compliance Facilities  
American Indian Lands  
Land Use Control Information Systems  
Land Use Control Information Systems 2  
EPA Hazardous Waste Manifests  
Mines list from USGS  
Mines  
Mines list from USGS  
Material Licensing Tracking Systems  
Areas related to NPL remediation sites  
National Priority List Liens  
NURSING HOMES  
Occupational Safety & Health Administration  
PCB Activity Database Systems  
Polychlorinated Biphenyl (PCB) Waste



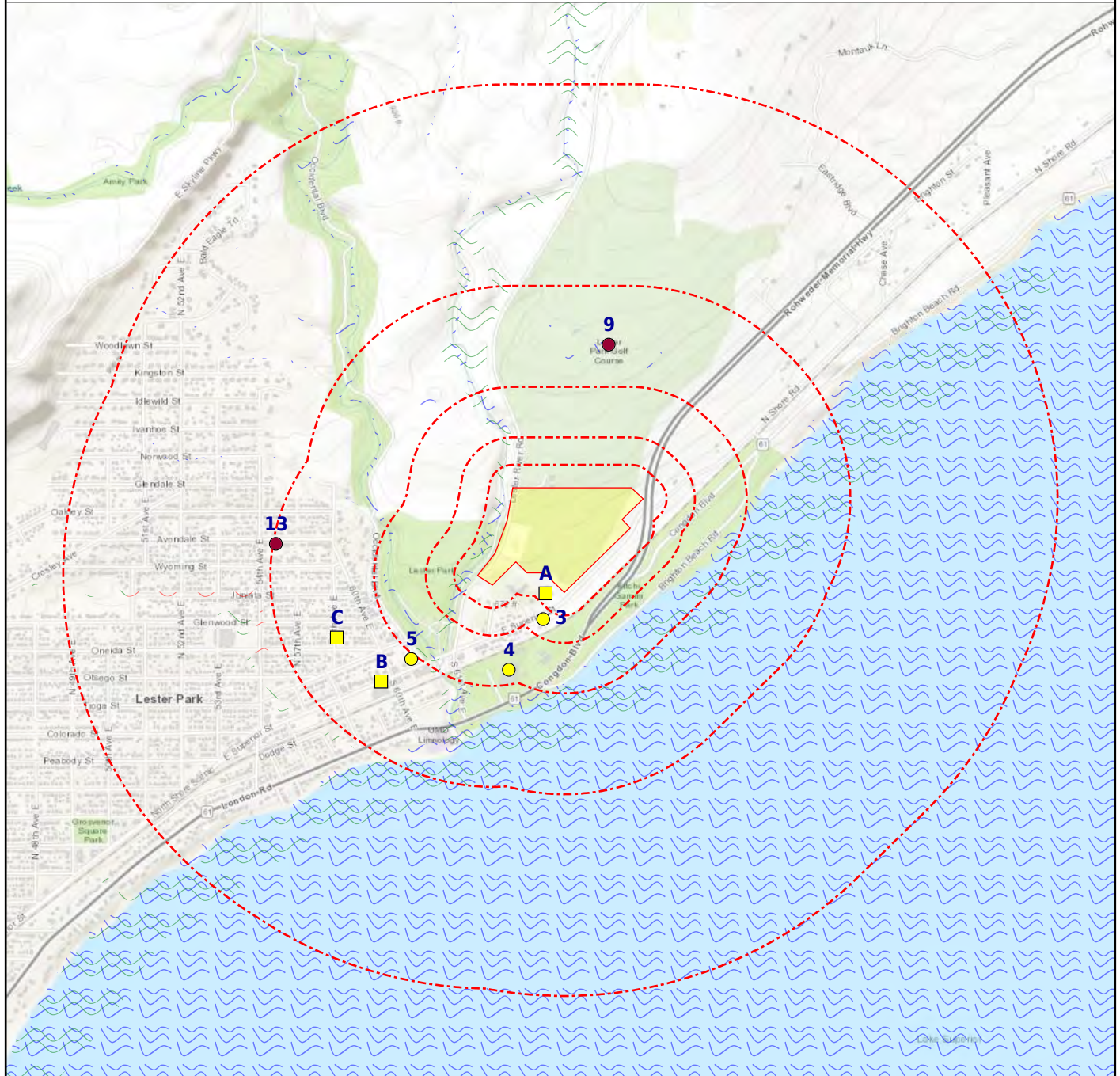
**OTHER ASCERTAINABLE RECORDS (cont.)**

PCS ENF	Enforced Permit Compliance Facilities
PCS FACILITY	Permit Compliance Facilities
PFAS NPL	PFAS NPL Sites
PFAS TRIS	PFAS TRIS Sites
PFAS UCMR3	PFAS UCMR Samples
RAATS	RCRA Administrative Action Tracking Systems
RADINFO	Radiation Information Systems
RMP	Risk Management Plans
ROD	Record of Decision
SCHOOLS PRIVATE	SCHOOLS PRIVATE
SCHOOLS PUBLIC	SCHOOLS PUBLIC
SCRD DRYCLEANERS	SCRD Drycleaners
SEMS_SMELTER	Sites on SEMS Potential Smelter Activity
SSTS	Section 7 Tracking Systems
STORMWATER	Storm Water Permits
TOSCA-PLANT	Toxic Substance Control Act: Plants
TRIS	Toxic Release Inventory Systems
UMTRA	Uranium Mill Tailing Sites
VAPOR	EPA Vapor Intrusion
AG_LICENSES - MN	Fertilizer related facilities from the Minnesota Department of Agriculture Licensing Data
AIRS - MN	Air Permits
BULK - MN	Bulk Facilities
COAL ASH - MN	Coal Ash
DRYCLEANERS - MN	Drycleaners
EMI - MN	Emissions Inventory
ENF - MN	Generator Enforcement Cases
FA 2 - MN	Financial Assurance SWF
FA 3 - MN	Financial Assurance HWS
FEEDLOTS - MN	Feedlot Site Listing
HIST AGVIC - MN	Historical Agricultural Voluntary Investigation & Cleanup Listing
HIST DRYCLEANERS - MN	Historical Drycleaners
HIST FA 2 - MN	Historical Financial Assurance SWF
HIST MANIFEST - MN	Historical Hazardous Waste Manifest
HIST UNPERM LF - MN	Historical Unpermitted Facilities
HIST WIMN - MN	Historical Whats In My Neighborhood
HWS PERMIT - MN	Hazardous Waste Permit Sites
MANIFEST - MN	Hazardous Waste Manifest
MANIFEST_SCOTT COUNTY - MN	MANIFEST Scott County
MDA LIC - MN	Licensing
MPCA UNPERM LF - MN	MPCA Unpermitted LF
NPDES - MN	State Wastewater and NPDES Permits
PFAS - MN	PFAS Site Listing
T 2 - MN	Tier 2



SUBJECT NAME: Lester Park 4th Division  
 ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
 LAT/LONG: 46.843605 / -92.000675

PREPARED FOR: Bay West Inc  
 ORDER #: 71089  
 REPORT DATE: April 26, 2022

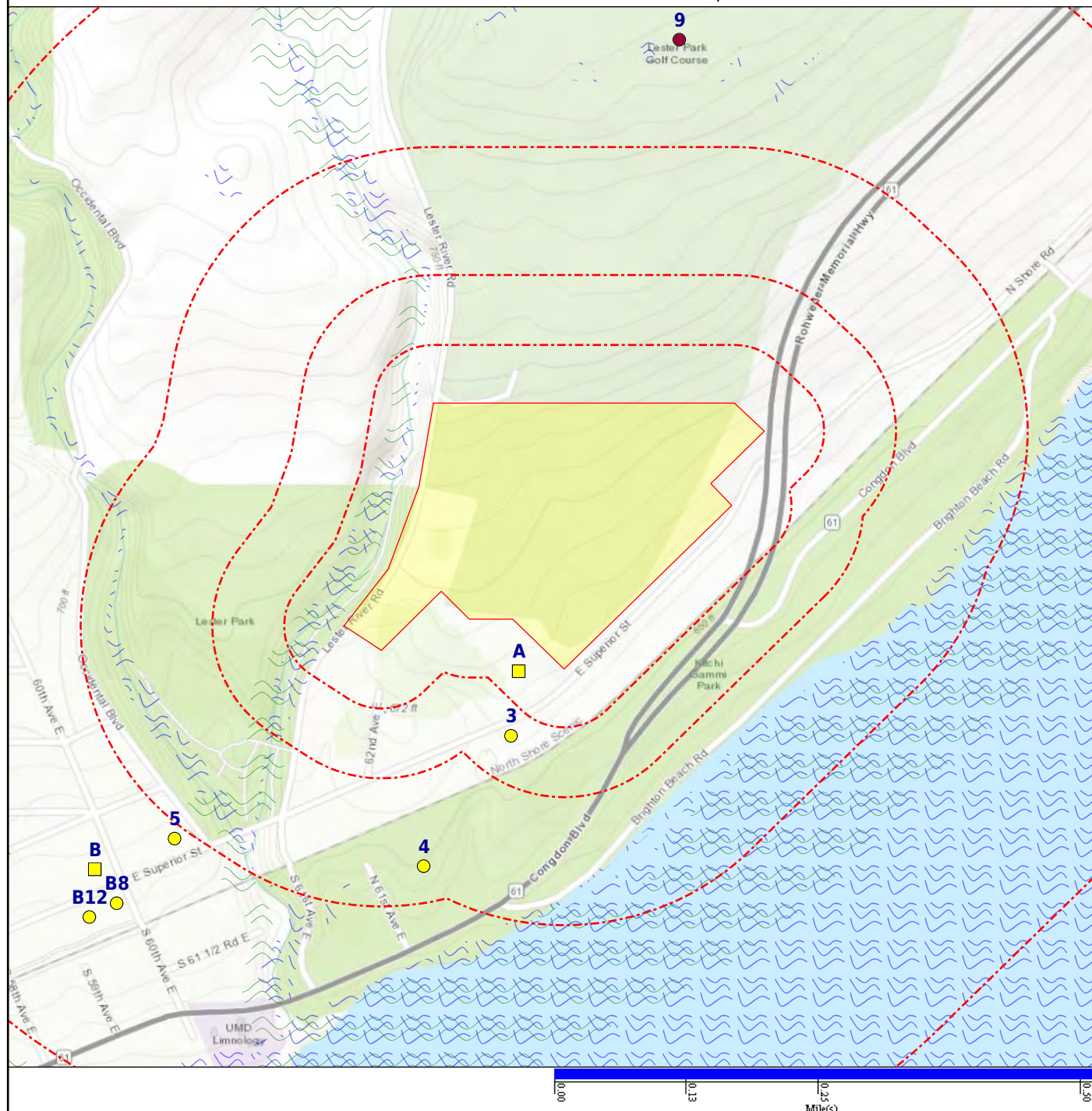


- |   |   |   |  |
|---|---|---|--|
| <ul style="list-style-type: none"> <li>Subject Property</li> <li>CDC HAZDAT (No Data)</li> <li>Federal Lands (No Data)</li> <li>Indian Reservation (No Data)</li> </ul> | <ul style="list-style-type: none"> <li>Equal/Higher Elevation</li> <li>Department of Defense (No Data)</li> <li>FEMA FloodZone 100</li> <li>National Priority List (No Data)</li> </ul> | <ul style="list-style-type: none"> <li>Lower Elevation</li> <li>DFIRM Floodzone 100 (No Data)</li> <li>FEMA FloodZone 500</li> <li>NWI</li> </ul> | <ul style="list-style-type: none"> <li>AG SPILLS (No Data)</li> <li>DFIRM Floodzone 500 (No Data)</li> <li>Historical DOD (No Data)</li> </ul> |
|---|---|---|--|



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|---|---|---|--|



<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u>&lt;1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt;1</u>	<u>TOTAL MAPPED</u>
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**FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST**

ARCHIVED RCRA TSDF		0.500	0	0	0	--	--	0
RCRA_TSDF		0.500	0	0	0	--	--	0

**FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS**

AST PBS		0.250	0	0	--	--	--	0
EPA UST		0.250	0	0	--	--	--	0
FEMA UST		0.250	0	0	--	--	--	0
HIST INDIAN UST R6		0.250	0	0	--	--	--	0
HIST INDIAN UST R7		0.250	0	0	--	--	--	0
INDIAN UST R1		0.250	0	0	--	--	--	0
INDIAN UST R10		0.250	0	0	--	--	--	0
INDIAN UST R2		0.250	0	0	--	--	--	0
INDIAN UST R4		0.250	0	0	--	--	--	0
INDIAN UST R5		0.250	0	0	--	--	--	0
INDIAN UST R6		0.250	0	0	--	--	--	0
INDIAN UST R7		0.250	0	0	--	--	--	0
INDIAN UST R8		0.250	0	0	--	--	--	0
INDIAN UST R9		0.250	0	0	--	--	--	0
AST - MN		0.250	0	0	--	--	--	0
HIST AST - MN		0.250	0	0	--	--	--	0
HIST TANK SITES - MN		0.250	0	0	--	--	--	0
HIST UST - MN		0.250	0	0	--	--	--	0
UST - MN		0.250	0	0	--	--	--	0

**FEDERAL CERCLIS LIST**

CERCLIS NFRAP		0.500	0	0	0	--	--	0
CERCLIS-HIST		0.500	0	0	0	--	--	0
EPA SAA		0.500	0	0	0	--	--	0
FEDERAL FACILITY		1.000	0	0	0	0	--	0
SEMS_8R_ACTIVE SITES		0.500	0	0	0	--	--	0
SEMS_8R_ARCHIVED SITES		0.500	0	0	0	--	--	0

**FEDERAL RCRA CORRACTS FACILITIES LIST**

CORRACTS		1.000	0	0	0	0	--	0
HIST CORRACTS 2		1.000	0	0	0	0	--	0

**FEDERAL DELISTED NPL SITE LIST**

DELISTED NPL		1.000	0	0	0	0	--	0
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<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u>&lt;1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt;1</u>	<u>TOTAL MAPPED</u>
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**FEDERAL DELISTED NPL SITE LIST (cont.)**

DELISTED PROPOSED NPL		1.000	0	0	0	0	--	0
SEMS_DELETED NPL		1.000	0	0	0	0	--	0

**FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS**

EPA LF MOP		0.500	0	0	0	--	--	0
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**FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS**

EPA LUST		0.500	0	0	4	--	--	4
HIST INDIAN LUST R4		0.500	0	0	0	--	--	0
HIST INDIAN LUST R8		0.500	0	0	0	--	--	0
INDIAN LUST R1		0.500	0	0	0	--	--	0
INDIAN LUST R10		0.500	0	0	0	--	--	0
INDIAN LUST R2		0.500	0	0	0	--	--	0
INDIAN LUST R4		0.500	0	0	0	--	--	0
INDIAN LUST R5		0.500	0	0	0	--	--	0
INDIAN LUST R6		0.500	0	0	0	--	--	0
INDIAN LUST R7		0.500	0	0	0	--	--	0
INDIAN LUST R8		0.500	0	0	0	--	--	0
INDIAN LUST R9		0.500	0	0	0	--	--	0
HIST LUST - MN		0.500	0	0	4	--	--	4
LUST - MN		0.500	0	0	5	--	--	5

**FEDERAL ERNS LIST**

ERNS		SP	0	--	--	--	--	0
------	--	----	---	----	----	----	----	---

**FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES**

FED E C		0.500	0	0	0	--	--	0
FED I C		0.500	0	0	0	--	--	0
RCRA IC_EC		0.250	0	0	--	--	--	0

**FEDERAL RCRA GENERATORS LIST**

HIST RCRA_CESQG		0.250	0	0	--	--	--	0
HIST RCRA_LQG		0.250	0	0	--	--	--	0
HIST RCRA_NONGEN		0.250	0	0	--	--	--	0
HIST RCRA_SQG		0.250	0	0	--	--	--	0
RCRA_LQG		0.250	0	0	--	--	--	0
RCRA_NONGEN		0.250	0	0	--	--	--	0
RCRA_SQG		0.250	0	0	--	--	--	0
RCRA_VSQG		0.250	0	0	--	--	--	0



<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u>&lt;1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt;1</u>	<u>TOTAL MAPPED</u>
<b>FEDERAL NPL SITE LIST</b>								
NPL		1.000	0	0	0	0	--	0
NPL EPA R1 GIS		1.000	0	0	0	0	--	0
NPL EPA R3 GIS		1.000	0	0	0	0	--	0
NPL EPA R6 GIS		1.000	0	0	0	0	--	0
NPL EPA R8 GIS		1.000	0	0	0	0	--	0
NPL EPA R9 GIS		1.000	0	0	0	0	--	0
PART NPL		1.000	0	0	0	0	--	0
PROPOSED NPL		1.000	0	0	0	0	--	0
SEMS_FINAL NPL		1.000	0	0	0	0	--	0
SEMS_PROPOSED NPL		1.000	0	0	0	0	--	0
<b>STATE AND TRIBAL BROWNFIELD SITES</b>								
TRIBAL BROWNFIELDS		0.500	0	0	0	--	--	0
BROWNFIELDS - MN		0.500	0	0	0	--	--	0
MPCA BROWNFIELDS - MN		0.500	0	0	0	--	--	0
<b>STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS</b>								
CLP - MN		0.500	0	0	0	--	--	0
SW OTHER - MN		0.500	0	0	0	--	--	0
SWF/LF - MN		0.500	0	0	0	--	--	0
<b>STATE AND TRIBAL EQUIVALENT DELISTED NPL SITE LIST</b>								
DEL PLP - MN		1.000	0	0	0	0	--	0
<b>STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES</b>								
HIST I C - MN		0.500	0	0	0	--	--	0
I C - MN		0.500	0	0	0	--	--	0
<b>STATE RCRA GENERATORS LIST</b>								
HWG - MN		0.250	2	0	--	--	--	2
<b>STATE- AND TRIBAL - EQUIVALENT CERCLIS</b>								
MPCA REMEDIATION - MN		0.500	0	0	0	--	--	0
MPCA SUPERFUND - MN		1.000	0	0	0	0	--	0
SHWS - MN		1.000	0	0	1	0	--	1
SRS - MN		0.500	0	0	0	--	--	0
<b>STATE- AND TRIBAL - EQUIVALENT NPL</b>								
PLP - MN		1.000	0	0	0	0	--	0



<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u>&lt;1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt;1</u>	<u>TOTAL MAPPED</u>
<b>STATE AND TRIBAL VOLUNTARY CLEANUP SITES</b>								
VIC - MN		0.500	0	0	0	--	--	0
<b>RECORDS OF EMERGENCY RELEASE REPORTS</b>								
HMIRS (DOT)		SP	0	--	--	--	--	0
AG SPILLS - MN		0.125	0	--	--	--	--	0
HIST SPILLS - MN		0.125	1	--	--	--	--	1
SPILLS - MN		0.125	1	--	--	--	--	1
TALES - MN		0.500	0	0	0	--	--	0
<b>LOCAL BROWNFIELD LISTS</b>								
BROWNFIELDS-ACRES		0.500	0	0	0	--	--	0
FED BROWNFIELDS		0.500	0	0	0	--	--	0
<b>LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES</b>								
FED CDL		SP	0	--	--	--	--	0
US HIST CDL		SP	0	--	--	--	--	0
CDL - MN		SP	0	--	--	--	--	0
MPCA SITE ASSESSMENT - MN		0.500	0	0	2	--	--	2
<b>LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES</b>								
HIST INDIAN ODI R8		0.500	0	0	0	--	--	0
INDIAN ODI R8		0.500	0	0	0	--	--	0
ODI		0.500	0	0	0	--	--	0
TRIBAL ODI		0.500	0	0	0	--	--	0
SWRCY - MN		0.500	0	0	0	--	--	0
<b>LOCAL LAND RECORDS</b>								
LIENS 2		SP	0	--	--	--	--	0
HIST LIENS - MN		SP	0	--	--	--	--	0
LIENS - MN		SP	0	--	--	--	--	0
<b>OTHER ASCERTAINABLE RECORDS</b>								
AFS		SP	0	--	--	--	--	0
ALT FUELING		0.250	0	0	--	--	--	0
BRS		SP	0	--	--	--	--	0
CDC HAZDAT		1.000	0	0	0	0	--	0
COAL ASH DOE		0.500	0	0	0	--	--	0
COAL ASH EPA		0.500	0	0	0	--	--	0
COAL GAS		1.000	0	0	0	0	--	0



<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u>&lt;1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt;1</u>	<u>TOTAL MAPPED</u>
<b>OTHER ASCERTAINABLE RECORDS (cont.)</b>								
COLLEGES		SP	0	--	--	--	--	0
COLLEGES 2		SP	0	--	--	--	--	0
CONSENT (DECREEES)		1.000	0	0	0	0	--	0
CORRECTIVE ACTIONS_2020		0.500	0	0	0	--	--	0
DEBRIS EPA LF		0.500	0	0	0	--	--	0
DEBRIS EPA SWRCY		0.500	0	0	0	--	--	0
DOD		1.000	0	0	0	0	--	0
DOT OPS		SP	0	--	--	--	--	0
ECHO		SP	0	--	--	--	--	0
ENOI		SP	0	--	--	--	--	0
EPA FUELS		SP	0	--	--	--	--	0
EPA OSC		0.125	0	--	--	--	--	0
EPA WATCH		SP	0	--	--	--	--	0
FA HWF		SP	0	--	--	--	--	0
FEDLAND		1.000	0	0	0	0	--	0
FRS		SP	0	--	--	--	--	0
FTTS		SP	0	--	--	--	--	0
FTTS INSP		SP	0	--	--	--	--	0
FUDS		1.000	0	0	0	0	--	0
HIST AFS		SP	0	--	--	--	--	0
HIST AFS 2		SP	0	--	--	--	--	0
HIST DOD		1.000	0	0	0	0	--	0
HIST LEAD_SMELTER		SP	0	--	--	--	--	0
HIST MLTS		SP	0	--	--	--	--	0
HIST PCB TRANS		SP	0	--	--	--	--	0
HIST PCS ENF		SP	0	--	--	--	--	0
HIST PCS FACILITY		SP	0	--	--	--	--	0
HIST SSTS		SP	0	--	--	--	--	0
HOSPITALS		SP	0	--	--	--	--	0
HWC DOCKET		SP	0	--	--	--	--	0
ICIS		SP	0	--	--	--	--	0
INACTIVE PCS		SP	0	--	--	--	--	0
INDIAN RESERVATION		1.000	0	0	0	0	--	0
LUCIS		0.500	0	0	0	--	--	0
LUCIS 2		0.500	0	0	0	--	--	0
MANIFEST EPA		0.250	0	0	--	--	--	0



<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u>&lt;1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt;1</u>	<u>TOTAL MAPPED</u>
<b>OTHER ASCERTAINABLE RECORDS (cont.)</b>								
MINE OPERATIONS		0.250	0	0	--	--	--	0
MINES		0.250	0	0	--	--	--	0
MINES USGS		0.250	0	0	--	--	--	0
MLTS		SP	0	--	--	--	--	0
NPL AOC		1.000	0	0	0	0	--	0
NPL LIENS		SP	0	--	--	--	--	0
NURSING HOMES		SP	0	--	--	--	--	0
OSHA		SP	0	--	--	--	--	0
PADS		SP	0	--	--	--	--	0
PCB TRANSFORMER		SP	0	--	--	--	--	0
PCS ENF		SP	0	--	--	--	--	0
PCS FACILITY		SP	0	--	--	--	--	0
PFAS NPL		0.500	0	0	0	--	--	0
PFAS TRIS		0.500	0	0	0	--	--	0
PFAS UCMR3		0.500	0	0	0	--	--	0
RAATS		SP	0	--	--	--	--	0
RADINFO		SP	0	--	--	--	--	0
RMP		0.500	0	0	0	--	--	0
ROD		1.000	0	0	0	0	--	0
SCHOOLS PRIVATE		SP	0	--	--	--	--	0
SCHOOLS PUBLIC		SP	0	--	--	--	--	0
SCRD DRYCLEANERS		0.250	0	0	--	--	--	0
SEMS_SMELTER		SP	0	--	--	--	--	0
SSTS		SP	0	--	--	--	--	0
STORMWATER		SP	0	--	--	--	--	0
TOSCA-PLANT		SP	0	--	--	--	--	0
TRIS		SP	0	--	--	--	--	0
UMTRA		0.500	0	0	0	--	--	0
VAPOR		0.500	0	0	0	--	--	0
AG_LICENSES - MN		0.250	0	0	--	--	--	0
AIRS - MN		SP	0	--	--	--	--	0
BULK - MN		1.000	0	0	0	0	--	0
COAL ASH - MN		0.500	0	0	0	--	--	0
DRYCLEANERS - MN		0.250	0	0	--	--	--	0
EMI - MN		SP	0	--	--	--	--	0
ENF - MN		SP	0	--	--	--	--	0



<u>DATABASE</u>	<u>SUBJECT PROPERTY</u>	<u>SEARCH DISTANCE (MILES)</u>	<u>&lt;1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt;1</u>	<u>TOTAL MAPPED</u>
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**OTHER ASCERTAINABLE RECORDS (cont.)**

FA 2 - MN		SP	0	--	--	--	--	0
FA 3 - MN		SP	0	--	--	--	--	0
FEEDLOTS - MN		0.500	0	0	0	--	--	0
HIST AGVIC - MN		0.500	0	0	0	--	--	0
HIST DRYCLEANERS - MN		0.250	0	0	--	--	--	0
HIST FA 2 - MN		SP	0	--	--	--	--	0
HIST MANIFEST - MN		0.250	0	0	--	--	--	0
HIST UNPERM LF - MN		0.500	0	0	0	--	--	0
HIST WIMN - MN		0.500	0	0	0	--	--	0
HWS PERMIT - MN		0.500	0	0	0	--	--	0
MANIFEST - MN		0.250	0	0	--	--	--	0
MANIFEST_SCOTT COUNTY - MN		0.250	0	0	--	--	--	0
MDA LIC - MN		0.250	0	0	--	--	--	0
MPCA UNPERM LF - MN		0.500	0	0	0	--	--	0
NPDES - MN		SP	0	--	--	--	--	0
PFAS - MN		0.500	0	0	0	--	--	0
T 2 - MN		0.250	0	0	--	--	--	0
WIMN - MN		0.500	0	1	8	--	--	9



Map Id: A1  
Direction: SSW  
Distance: 0.032 mi., 168 ft.  
Elevation: 681 ft.  
Relative: Lower

**Site Name :** LESTER RIVER MEDICAL CLINIC  
6351 E SUPERIOR ST | 6351 E Superior St  
(null)  
DULUTH | Duluth, MN 55804  
**Database(s) :** [FRS, HWG - MN]

**EnviroSite ID:** 3522855  
**EPA ID:** N/R

## FRS

Facility Name : LESTER RIVER MEDICAL CLINIC  
Facility Address : 6351 E SUPERIOR ST, DULUTH, MN 55804  
County : ST. LOUIS

## Site Details

Registry ID : 110068189374  
FRS Facility URL : [Click here for hyperlink provided by the agency.](#)  
Last Date in Agency List : 2022-02-17

## Source Description

Source Description :

Minnesota's permitting, compliance, and enforcement information management system.

## FRS Environmental Interest

Source and System ID : MN-TEMPO - 134735

## HWG - MN

Facility Name : Lester River Medical Clinic  
Facility Address : 6351 E Superior St, Duluth, MN 55804  
County : St. Louis

Site ID : 134735  
Active : Y  
Activity ID : MNS000153239  
Activity Name : Lester River Medical Clinic  
Activity Type Name : Hazardous Waste  
Activity Subtype Name : Minimal quantity generator  
Owner Name : Saint Lukes Hospital/Regional Trauma Ctr  
Program Name : Hazardous Waste  
Industrial Classification : Offices of Physicians  
Watershed Name : Lake Superior - South  
Coordinate Method : Address Matching House Number  
Legislative District : 8  
HUC 8 : 04010102  
Institutional Control : N  
Latitude : 46.8406392  
Longitude : -92.0019308  
Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)  
Last Date in Agency List : 2018-04-23



Map Id: A2  
 Direction: SSW  
 Distance: 0.032 mi., 168 ft.  
 Elevation: 681 ft.  
 Relative: Lower

**Site Name :** Lester River Medical Clinic  
 6351 Superior St  
 Duluth, MN  
**Database(s) :** [HWG - MN]

**Envirosite ID:** 3617395  
**EPA ID:** N/R

## HWG - MN

Facility Name : Lester River Medical Clinic  
 Facility Address : 6351 Superior St, Duluth, MN 55804-2545  
 County : St. Louis

Site ID : 134735  
 Active : Y  
 Activity ID : MNS000153239  
 Activity Name : Lester River Medical Clinic  
 Activity Type Name : Hazardous Waste  
 Activity Subtype Name : Minimal quantity generator  
 Owner Name : Lester River Medical Clinic  
 Program Name : Hazardous Waste  
 Industrial Classification : Offices of Physicians  
 Watershed Name : Lake Superior - South  
 Coordinate Method : Address Matching House Number  
 Legislative District : 8  
 HUC 8 : 04010102  
 Institutional Control : N  
 Latitude : 46.8406392  
 Longitude : -92.0019308  
 Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)  
 Last Date in Agency List : 2022-02-07

Map Id: 3  
 Direction: SSW  
 Distance: 0.082 mi., 433 ft.  
 Elevation: 669 ft.  
 Relative: Lower

**Site Name :** Hinzmann Residential Mercury Spill |  
 Stacie Hinzmann - Residential Mercury  
 Spill  
 6304 East Superior St  
 Duluth, MN  
**Database(s) :** [HIST SPILLS - MN, SPILLS - MN]

**Envirosite ID:** 3543377  
**EPA ID:** N/R

## HIST SPILLS - MN

Facility Name : Hinzmann Residential Mercury Spill  
 Facility Address : 6304 East Superior St, Duluth, MN

### Site Details

Interest Start Date : 2012-08-14  
 Interest End Date : N/R  
 Interest Type : Spill  
 Interest Phone : N/R  
 TMSP Last Update : 2012-10-25 13:15:41  
 TMSP Added : 2012-08-14 15:43:06  
 Staff ID Last Update : MROSE  
 Program ID : 63579426  
 Site ID : 0  
 Preferred ID : 84800  
 Address ID : 63579427



Map Id: 3  
 Direction: SSW  
 Distance: 0.082 mi., 433 ft.  
 Elevation: 669 ft.  
 Relative: Lower

**Site Name :** Hinzmann Residential Mercury Spill |  
 Stacie Hinzmann - Residential Mercury  
 Spill  
 6304 East Superior St  
 Duluth, MN

**Database(s) :** [HIST SPILLS - MN, SPILLS - MN] **(cont.)**

**Envirosite ID:** 3543377  
**EPA ID:** N/R

## HIST SPILLS - MN **(cont.)**

Township Name : N/R  
 Source : TALES  
 Active Flag : N/R

### Comments :

Caller contacted the Minnesota Pollution Control Agency (MPCA) directly and reported a spill of mercury from a broken thermometer. The spill resulted from a pet knocking the instrument onto the kitchen floor. The pet then tracked the spilled mercury from the kitchen floor into the living room. The resident has a small child with a compromised immune system and requests assistance from the MPCA. MPCA executes Full-Service Contract and hires a clean up contractor to protect of human health.

Last Date in Agency List : 2017-05-24

### Spills Summary

Spill Site Closure Date : 2012-10-26  
 Spill Reported Date : 2012-08-12  
 Spill Closure Code : Response Completed  
 Spill Reported by Code : MPCA, ER Staff  
 Spill Reported by : Mike Rose  
 Spill Date : 2012-08-12  
 Program Int ID : 63579426  
 Initial Cause Code : Spill  
 Initial Cause Description : Spill  
 Initial Source Code : Other  
 Priority Code : N/R  
 Archive Lot : N/R  
 Archive Box : N/R  
 RPT Taken by Duty Officer Flag : N/R  
 Public Safety Spill ID : 36238  
 Duty Officer Report Number : 128373  
 Report Taken by Initials : 2829  
 MPCA Project Manager Initials : 2829  
 MPCA Involvement : Significant  
 REP Name : Mike Rose  
 REP Phone : 9132406771

### Response Description :

MPCA ERT staff hired West Central Environmental Consultants to: assess mercury contamination; recover any elemental mercury and decontaminate the home as necessary. Mercury air monitors (LUMEX), owned by the MPCA, were not available for use in the regional offices. ERT staff met with contractor staff at the home and confirmed air space and traffic areas were below residential limits. HgX product applied to hard wood floor surface as a precautionary measure.

Facility Name : Stacie Hinzmann - Residential Mercury Spill  
 Facility Address : 6304 East Superior St, Duluth, MN



Map Id: 3  
 Direction: SSW  
 Distance: 0.082 mi., 433 ft.  
 Elevation: 669 ft.  
 Relative: Lower

**Site Name :** Hinzmann Residential Mercury Spill |  
 Stacie Hinzmann - Residential Mercury  
 Spill  
 6304 East Superior St  
 Duluth, MN  
**Database(s) :** [HIST SPILLS - MN, SPILLS - MN] **(cont.)**

**Envirosite ID:** 3543377  
**EPA ID:** N/R

## HIST SPILLS - MN (cont.)

### Site Details

Interest Start Date : 2012-08-14  
 Interest End Date : N/R  
 Interest Type : Spill  
 Interest Phone : N/R  
 TMSP Last Update : 2012-09-13 11:20:10  
 TMSP Added : 2012-08-14 15:40:56  
 Staff ID Last Update : MROSE  
 Program ID : 63579424  
 Site ID : 0  
 Preferred ID : 84799  
 Address ID : 63579427  
 Township Name : N/R  
 Source : TALES  
 Active Flag : N/R

Comments : Caller reporting a broken mercury thermometer released mercury in the home. Resident has a small child. MPCA hired a clean up contractor to be protective of human health.

Last Date in Agency List : 2017-05-24

### Spills Summary

Spill Site Closure Date : 2012-08-20  
 Spill Reported Date : 2012-08-07  
 Spill Closure Code : Closed, Other (See Remarks)  
 Spill Reported by Code : MPCA, ER Staff  
 Spill Reported by : N/R  
 Spill Date : 2012-06-20  
 Program Int ID : 63579424  
 Initial Cause Code : Spill  
 Initial Cause Description : Spill  
 Initial Source Code : Other  
 Priority Code : N/R  
 Archive Lot : N/R  
 Archive Box : N/R  
 RPT Taken by Duty Officer Flag : N/R  
 Public Safety Spill ID : N/R  
 Duty Officer Report Number : N/R  
 Report Taken by Initials : 2829  
 MPCA Project Manager Initials : 2829  
 MPCA Involvement : Significant  
 REP Name : N/R  
 REP Phone : N/R

Response Description : Refer to MPCA Spill #84800 for response summary associated with this incident.

## SPILLS - MN

Facility Address : 6304 East Superior St, Duluth, MN  
 County : St. Louis



Map Id: 3  
 Direction: SSW  
 Distance: 0.082 mi., 433 ft.  
 Elevation: 669 ft.  
 Relative: Lower

**Site Name :** Hinzmann Residential Mercury Spill |  
 Stacie Hinzmann - Residential Mercury  
 Spill  
 6304 East Superior St  
 Duluth, MN  
**Database(s) :** [HIST SPILLS - MN, SPILLS - MN] **(cont.)**

**Envirosite ID:** 3543377  
**EPA ID:** N/R

## SPILLS - MN (cont.)

### Site Details

Incident Date : 2012-06-20  
 Incident Status : Closed or Completed  
 Incident ID : 84799  
 Incident Type : Spill or Release  
 Program : Emergency Response  
 Substances : small amounts Mercury  
 Closure Type : Response/Action Completed  
 Location Description : 6304 East Superior St MN  
 Duty Officer Number : N/R  
 Lead Investigator : Mike Rose  
 Agency Interest ID Source : N/R  
 Source Name : Stacie Hinzmann  
 Source Address : 5429 McDonnel Road, Duluth, MN  
 Coordinate Method : N/R  
 Latitude : N/R  
 Longitude : N/R  
 Last Date in Agency List : 2022-04-12

### Incident Substance

Incident ID : 84799  
 Parameter : N/R  
 Quantity : N/R  
 Units : N/R

### Site Details

Incident Date : 2012-08-12  
 Incident Status : Closed or Completed  
 Incident ID : 84800  
 Incident Type : Spill or Release  
 Program : Emergency Response  
 Substances : small amounts Mercury  
 Closure Type : Response/Action Completed  
 Location Description : 6304 East Superior St MN  
 Duty Officer Number : 128373  
 Lead Investigator : Mike Rose  
 Agency Interest ID Source : 211258  
 Source Name : Hinzmann Residential Mercury Spill  
 Source Address : 6304 East Superior St, Duluth, MN  
 Coordinate Method : N/R  
 Latitude : N/R  
 Longitude : N/R  
 Last Date in Agency List : 2022-04-12

### Incident Substance

Incident ID : 84800  
 Parameter : N/R  
 Quantity : N/R  
 Units : N/R



Map Id: 4  
 Direction: SSW  
 Distance: 0.214 mi., 1128 ft.  
 Elevation: 647 ft.  
 Relative: Lower

**Site Name :** US EPA - MED-DULUTH | Environmental Research Laboratory-duluth | US EPA - GLTED  
 6201 CONGDON BLVD | 6201 CONGDON BLVD T50N R13W SEC 4 ST LOUIS CTY | 6201 CONGDON BOULEVARD NATIONAL HEALTH & ENVIRONMENTAL EFFECT RESEARCH LABORATORY  
 Duluth | DULUTH, MN  
**Database(s) :** [WIMN - MN]

**EnviroSite ID:** 3467736  
**EPA ID:** N/R

WIMN - MN

Facility Name : US EPA - MED-Duluth  
 Facility Address : 6201 Congdon Blvd, Duluth, MN 55804-2558  
 County : St. Louis

## Site Details

Site ID : 2425  
 Activity Subtype Name : N/R  
 Institutional Control : No  
 Watershed : Lake Superior - South  
 Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)  
 Latitude : 46.83804984  
 Longitude : -92.0013041  
 Coordinate Collection Method : Address Matching House Number  
 Last Date in Agency List : 2022-02-09

## Activity Details

Program Name : Tanks  
 Activity Type : Underground Tanks  
 Activity ID : TS0005020

Industrial Classification : Testing Laboratories; Administration of Air and Water Resource and Solid Waste Management Programs

Active : Yes

## Owner Details

Owner Name : Us Environmental Protection Agency

Map Id: 5  
 Direction: WSW  
 Distance: 0.262 mi., 1383 ft.  
 Elevation: 666 ft.  
 Relative: Lower

**Site Name :** LESTERWOOD APARTMENTS  
 6025 E SUPERIOR ST  
 Duluth | DULUTH, MN 55804  
**Database(s) :** [WIMN - MN]

**EnviroSite ID:** 3441676  
**EPA ID:** N/R

WIMN - MN

Facility Name : Lesterwood Apartments  
 Facility Address : 6025 E Superior St, Duluth, MN 55804



Map Id: 5  
Direction: WSW  
Distance: 0.262 mi., 1383 ft.  
Elevation: 666 ft.  
Relative: Lower

**Site Name :** LESTERWOOD APARTMENTS  
6025 E SUPERIOR ST  
Duluth | DULUTH, MN 55804  
**Database(s) :** [WIMN - MN] (**cont.**)

**Envirosite ID:** 3441676  
**EPA ID:** N/R

#### WIMN - MN (**cont.**)

County : St. Louis

#### Site Details

Site ID : 108245  
Activity Subtype Name : N/R  
Institutional Control : No  
Watershed : Lake Superior - South  
Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)  
Latitude : 46.8388572  
Longitude : -92.0080685  
Coordinate Collection Method : Address Matching House Number  
Last Date in Agency List : 2022-02-09

#### Activity Details

Program Name : Tanks  
Activity Type : Underground Tanks  
Activity ID : TS0020677  
Industrial Classification : N/R  
Active : No

#### Owner Details

Owner Name : Fred Chez

Map Id: B6  
Direction: WSW  
Distance: 0.326 mi., 1724 ft.  
Elevation: 664 ft.  
Relative: Lower

**Site Name :** I C O LESTER PARK | Former Lester Park  
Service | Lester Park Service  
5931 E SUPERIOR ST  
Duluth | DULUTH, MN  
**Database(s) :** [EPA LUST, HIST LUST - MN, LUST - MN,  
WIMN - MN]

**Envirosite ID:** 42966738  
**EPA ID:** N/R

#### EPA LUST

Facility Name : I C O Lester Park  
Facility Address : 5931 E Superior St, Duluth, Minnesota 55804  
County : St. Louis

Facility ID : MN26410  
LUST ID : MNLS0015815  
Reported Date : 2004-08-23  
Status : No Further Action  
Substance : Hydraulic Fluid  
Closed With Residual Contamination  
(Tribal Only): N/R



Map Id: B6  
 Direction: WSW  
 Distance: 0.326 mi., 1724 ft.  
 Elevation: 664 ft.  
 Relative: Lower

**Site Name :** I C O LESTER PARK | Former Lester Park  
 Service | Lester Park Service  
 5931 E SUPERIOR ST  
 Duluth | DULUTH, MN  
**Database(s) :** [EPA LUST, HIST LUST - MN, LUST - MN,  
 WIMN - MN] **(cont.)**

**Envirosite ID:** 42966738  
**EPA ID:** N/R

#### EPA LUST **(cont.)**

NFA\_Letter (Tribal Only) : N/R  
 Tribe (Tribal Only) : N/R  
 EPA Region : 5  
 Estimated Population within 1500ft : 672  
 Estimated Private Domestic Wells within 1500ft: 2  
 Within Source Water Protection Area (SPA): No  
 SPA Public Water System and Facility ID: N/R  
 SPA Water Type : N/R  
 SPA Facility Type : N/R  
 SPA HUC12 : N/R  
 Within Groundwater Wellhead Protection Area (WHPA): No  
 WHPA Public Water System and Facility ID: N/R  
 WHPA Water Type : N/R  
 WHPA Facility Type : N/R  
 WHPA HUC12 : N/R  
 Within Estimated 100-year Floodplain: No  
 Latitude : 46.8385699999999  
 Longitude : -92.0096099999999  
 Last Date in Agency List : 2022-04-22

Facility ID : MN26410  
 LUST ID : MNLS0010955  
 Reported Date : 1997-11-11  
 Status : No Further Action  
 Substance : Hydraulic Fluid  
 Closed With Residual Contamination (Tribal Only): N/R  
 NFA\_Letter (Tribal Only) : N/R  
 Tribe (Tribal Only) : N/R  
 EPA Region : 5  
 Estimated Population within 1500ft : 655  
 Estimated Private Domestic Wells within 1500ft: 2  
 Within Source Water Protection Area (SPA): No  
 SPA Public Water System and Facility ID: N/R  
 SPA Water Type : N/R  
 SPA Facility Type : N/R  
 SPA HUC12 : N/R  
 Within Groundwater Wellhead Protection Area (WHPA): No  
 WHPA Public Water System and Facility ID: N/R  
 WHPA Water Type : N/R  
 WHPA Facility Type : N/R  
 WHPA HUC12 : N/R  
 Within Estimated 100-year Floodplain: No  
 Latitude : 46.8386  
 Longitude : -92.00945  
 Last Date in Agency List : 2022-04-22



Map Id: B6  
 Direction: WSW  
 Distance: 0.326 mi., 1724 ft.  
 Elevation: 664 ft.  
 Relative: Lower

**Site Name :** I C O LESTER PARK | Former Lester Park  
 Service | Lester Park Service  
 5931 E SUPERIOR ST  
 Duluth | DULUTH, MN  
**Database(s) :** [EPA LUST, HIST LUST - MN, LUST - MN,  
 WIMN - MN] **(cont.)**

**Envirosite ID:** 42966738  
**EPA ID:** N/R

## HIST LUST - MN

Facility Name : Former Lester Park Service  
 Facility Address : 5931 E Superior St, Duluth, MN 55804-2536

### Site Details

Interest Start Date : 2004-08-25  
 Interest End Date : 2006-12-06 07:31  
 Interest Phone : NO CORE PI PH.  
 Interest Type : Leak Site  
 TMSP Last Update : 2014-11-10 08:17  
 TMSP Added : 2006-12-06 07:31  
 Program ID : 298293  
 Site ID : 22935  
 Preferred ID : 15815  
 Address ID : 32935  
 Township Name : N/R  
 Staff ID Last Update : RGAGLE  
 Source : CORE  
 Active Flag : N  
 Comments : N/R  
 Last Date in Agency List : 2017-10-11

### Leak Site Summary

Release Discovered Date : 2004-08-23  
 Leak Report Date : 2004-08-24  
 Enforcement Action Begin Date : 2004-08-31  
 Complete Site Closure Date : 2004-11-22  
 TMSP Last Update : 2008-05-27 12:15  
 TMSP Added : 2004-08-25 10:12  
 Leak Site Type Code : Leak site (tank and petroleum contamination).  
 Staff ID Last Update : KMUSTON  
 File Archive Box : N/R  
 File Archive Lot : N/R  
 CU YDS Excavated Quantity : 460  
 Soil Dig Out Date : 2004-08-24  
 STD Letter Response Date : 2004-08-24  
 COND Closure Date : N/R  
 LUST Trust Eligible Flag : N  
 REIMB Awarded Flag : N  
 Utility Project Flag : N  
 Tank REG Status Code : Non-regulated  
 Sub Slab Sample Collected Flag : N/R  
 Indoor Air Collected Flag : N/R  
 Contaminated Soils Remaining Flag : Y  
 Surface Water Impact Flag : N  
 Offsite Contamination Flag : N  
 Residence Type Code : N/R  
 Release from AST Flag : N  
 Release from UST Flag : Y  
 Vapor Intrusion Checked Application  
 Date: N/R  
 Vapor Intrusion Checked Acres : N/R



Map Id: B6  
 Direction: WSW  
 Distance: 0.326 mi., 1724 ft.  
 Elevation: 664 ft.  
 Relative: Lower

**Site Name :** I C O LESTER PARK | Former Lester Park  
 Service | Lester Park Service  
 5931 E SUPERIOR ST  
 Duluth | DULUTH, MN  
**Database(s) :** [EPA LUST, HIST LUST - MN, LUST - MN,  
 WIMN - MN] **(cont.)**

**Envirosite ID:** 42966738  
**EPA ID:** N/R

## HIST LUST - MN **(cont.)**

Vapor Intrusion Checked Flag : N/R  
 Vapor Intrusion Action Flag : N/R  
 Vapor Intrusion Comments : N/R  
 Soil Gas Data Collected Flag : N/R  
 Soil Gas Action Level Flag : N/R  
 Soil Gas Data Comments : N/R

Facility Name : Lester Park Service  
 Facility Address : 5931 E Superior St, Duluth, MN 55804-2536

## Site Details

Interest Start Date : 1999-07-01  
 Interest End Date : 2000-06-22 00:00  
 Interest Phone : NO CORE PI PH.  
 Interest Type : Leak Site  
 TMSP Last Update : 2013-03-19 13:26  
 TMSP Added : 2006-11-30 06:52  
 Program ID : 223379  
 Site ID : 22935  
 Preferred ID : 10955  
 Address ID : 32935  
 Township Name : N/R  
 Staff ID Last Update : RSUCHAN  
 Source : CORE  
 Active Flag : N  
 Comments : N/R  
 Last Date in Agency List : 2017-10-11

## Leak Site Summary

Release Discovered Date : 1997-11-11  
 Leak Report Date : 1997-11-11  
 Enforcement Action Begin Date : 1997-11-19  
 Complete Site Closure Date : 2000-06-22  
 TMSP Last Update : 2008-05-27 12:13  
 TMSP Added : 1999-12-04 14:03  
 Leak Site Type Code : Leak site (tank and petroleum contamination).  
 Staff ID Last Update : KMUSTON  
 File Archive Box : N/R  
 File Archive Lot : N/R  
 CU YDS Excavated Quantity : N/R  
 Soil Dig Out Date : N/R  
 STD Letter Response Date : 1997-12-03  
 COND Closure Date : N/R  
 LUST Trust Eligible Flag : Y  
 REIMB Awarded Flag : N  
 Utility Project Flag : N  
 Tank REG Status Code : Federal  
 Sub Slab Sample Collected Flag : N/R  
 Indoor Air Collected Flag : N/R  
 Contaminated Soils Remaining Flag : U



Map Id: B6  
 Direction: WSW  
 Distance: 0.326 mi., 1724 ft.  
 Elevation: 664 ft.  
 Relative: Lower

**Site Name :** I C O LESTER PARK | Former Lester Park  
 Service | Lester Park Service  
 5931 E SUPERIOR ST  
 Duluth | DULUTH, MN  
**Database(s) :** [EPA LUST, HIST LUST - MN, LUST - MN,  
 WIMN - MN] **(cont.)**

**Envirosite ID:** 42966738  
**EPA ID:** N/R

#### HIST LUST - MN **(cont.)**

Surface Water Impact Flag :	U
Offsite Contamination Flag :	U
Residence Type Code :	N/R
Release from AST Flag :	N
Release from UST Flag :	N
Vapor Intrusion Checked Application Date:	N/R
Vapor Intrusion Checked Acres :	N/R
Vapor Intrusion Checked Flag :	N/R
Vapor Intrusion Action Flag :	N/R
Vapor Intrusion Comments :	N/R
Soil Gas Data Collected Flag :	N/R
Soil Gas Action Level Flag :	N/R
Soil Gas Data Comments :	N/R

#### LUST - MN

Facility Name :	Former Lester Park Service
Facility Address :	5931 E Superior St, Duluth, MN 55804
County :	St. Louis

#### Site Details

Item ID :	26410-AREA0000000002
Site ID :	LS0015815
Site Type :	Leak Site
AI ID :	26410
AI Name :	I C O Lester Park
Acreage :	N/R
Hydro :	N/R
Project Manager :	Gary Zarling (former)
Status :	Closed
Listed on the NPL? :	No
Listed on the PLP? :	No
A petroleum brownfield? :	No
A non-petroleum brownfield? :	No
Listed on EPA's CERCLIS/SEMS list? :	No
An unpermitted dump? :	No
Are there institutional controls? :	No
Hazard Ranking System Score :	N/R
Year for the HRS Score :	N/R
Congressional District :	8
House District :	7A
Senate District :	7
HUC8 ID :	04010102
HUC8 Name :	Lake Superior - South
HUC10 ID :	0401010204
HUC12 ID :	040101020403
HUC12 Name :	Amity Creek
DW SMA Code :	N/R
DW SMA Name :	N/R
Fed Regulated :	No
Fed State Regulated :	No
State Regulated :	No



Map Id: B6  
 Direction: WSW  
 Distance: 0.326 mi., 1724 ft.  
 Elevation: 664 ft.  
 Relative: Lower

**Site Name :** I C O LESTER PARK | Former Lester Park  
 Service | Lester Park Service  
 5931 E SUPERIOR ST  
 Duluth | DULUTH, MN  
**Database(s) :** [EPA LUST, HIST LUST - MN, LUST - MN,  
 WIMN - MN] **(cont.)**

**Envirosite ID:** 42966738  
**EPA ID:** N/R

## LUST - MN (cont.)

Not Regulated :	Yes
SF Voluntary :	No
Coordinate Collection Method :	Digitized-DOQ
Location Description :	Site Center
Latitude :	46.83857
Longitude :	-92.009613
WIMN Link :	<a href="#">Click here for hyperlink provided by the agency.</a>
Last Date in Agency List :	2022-03-16

## Activity Details

Activity ID :	SIW20040001
Activity Description :	Leak Site Investigation
Activity Class :	SIW
Activity Year :	2004
Activity Number :	1
Site Closed :	2004-11-22
Site Start Date :	2004-08-24
Site Discover Date :	N/R
Leak Discovered :	2004-08-23
Leak Reported :	2004-08-24
Leak Reopened Date :	N/R
Date Received :	N/R
Site Listed on PLP :	N/R
Site Delisted from PLP :	N/R
Site Listed on NPL :	N/R
Site Deleted from NPL :	N/R
Fund Finance Approved :	N/R
Fund Finance Closed :	N/R
Assessment Completed :	N/R
Investigation Completed :	N/R
No Further Action Decision :	N/R
Remedy Implemented :	N/R
Remedy Selected :	N/R
Staff Assign Date :	N/R
App Completed Date :	N/R
ER Site Eval Date :	N/R

Facility Name :	Lester Park Service
Facility Address :	5931 E Superior St, Duluth, MN 55804
County :	St. Louis

## Site Details

Item ID :	26410-AREA0000000001
Site ID :	LS0010955
Site Type :	Leak Site
AI ID :	26410
AI Name :	I C O Lester Park
Acreage :	N/R
Hydro :	N/R
Project Manager :	Steve Leppala (no longer at MPCA)



Map Id: B6  
 Direction: WSW  
 Distance: 0.326 mi., 1724 ft.  
 Elevation: 664 ft.  
 Relative: Lower

**Site Name :** I C O LESTER PARK | Former Lester Park  
 Service | Lester Park Service  
 5931 E SUPERIOR ST  
 Duluth | DULUTH, MN  
**Database(s) :** [EPA LUST, HIST LUST - MN, LUST - MN,  
 WIMN - MN] **(cont.)**

**Envirosite ID:** 42966738  
**EPA ID:** N/R

## LUST - MN (cont.)

Status :	Closed
Listed on the NPL? :	No
Listed on the PLP? :	No
A petroleum brownfield? :	No
A non-petroleum brownfield? :	No
Listed on EPA's CERCLIS/SEMS list? :	No
An unpermitted dump? :	No
Are there institutional controls? :	No
Hazard Ranking System Score :	N/R
Year for the HRS Score :	N/R
Congressional District :	8
House District :	7A
Senate District :	7
HUC8 ID :	04010102
HUC8 Name :	Lake Superior - South
HUC10 ID :	0401010204
HUC12 ID :	040101020403
HUC12 Name :	Amity Creek
DW SMA Code :	N/R
DW SMA Name :	N/R
Fed Regulated :	Yes
Fed State Regulated :	No
State Regulated :	No
Not Regulated :	No
SF Voluntary :	No
Coordinate Collection Method :	Digitized - MPCA internal map
Location Description :	N/R
Latitude :	46.838596
Longitude :	-92.009451
WIMN Link :	<a href="#">Click here for hyperlink provided by the agency.</a>
Last Date in Agency List :	2022-03-16

## Activity Details

Activity ID :	SIW19970001
Activity Description :	Leak Site Investigation
Activity Class :	SIW
Activity Year :	1997
Activity Number :	1
Site Closed :	2000-06-22
Site Start Date :	1997-11-11
Site Discover Date :	N/R
Leak Discovered :	1997-11-11
Leak Reported :	1997-11-11
Leak Reopened Date :	N/R
Date Received :	N/R
Site Listed on PLP :	N/R
Site Delisted from PLP :	N/R
Site Listed on NPL :	N/R
Site Deleted from NPL :	N/R
Fund Finance Approved :	N/R
Fund Finance Closed :	N/R
Assessment Completed :	N/R
Investigation Completed :	N/R



Map Id: B6  
 Direction: WSW  
 Distance: 0.326 mi., 1724 ft.  
 Elevation: 664 ft.  
 Relative: Lower

**Site Name :** I C O LESTER PARK | Former Lester Park  
 Service | Lester Park Service  
 5931 E SUPERIOR ST  
 Duluth | DULUTH, MN  
**Database(s) :** [EPA LUST, HIST LUST - MN, LUST - MN,  
 WIMN - MN] **(cont.)**

**Envirosite ID:** 42966738  
**EPA ID:** N/R

## LUST - MN **(cont.)**

No Further Action Decision :	N/R
Remedy Implemented :	N/R
Remedy Selected :	N/R
Staff Assign Date :	N/R
App Completed Date :	N/R
ER Site Eval Date :	N/R

## WIMN - MN

Facility Name :	I C O Lester Park
Facility Address :	5931 E Superior St, Duluth, MN 55804-2536
County :	St. Louis

## Site Details

Site ID :	26410
Activity Subtype Name :	N/R
Institutional Control :	No
Watershed :	Lake Superior - South
Agency Hyperlink :	<a href="#">Click here for hyperlink provided by the agency.</a>
Latitude :	46.8381241
Longitude :	-92.0101821
Coordinate Collection Method :	Address Matching House Number
Last Date in Agency List :	2022-02-09

Site ID :	26410
Activity Subtype Name :	Leak Site
Institutional Control :	No
Watershed :	Lake Superior - South
Agency Hyperlink :	<a href="#">Click here for hyperlink provided by the agency.</a>
Latitude :	46.8381241
Longitude :	-92.0101821
Coordinate Collection Method :	Address Matching House Number
Last Date in Agency List :	2022-02-09

## Activity Details

Program Name :	Investigation and Cleanup
Activity Type :	Petroleum Remediation
Activity ID :	LS0010955
Industrial Classification :	N/R
Active :	No

Program Name :	Investigation and Cleanup
Activity Type :	Petroleum Remediation
Activity ID :	LS0015815
Industrial Classification :	N/R
Active :	No



Map Id: B6  
 Direction: WSW  
 Distance: 0.326 mi., 1724 ft.  
 Elevation: 664 ft.  
 Relative: Lower

**Site Name :** I C O LESTER PARK | Former Lester Park  
 Service | Lester Park Service  
 5931 E SUPERIOR ST  
 Duluth | DULUTH, MN  
**Database(s) :** [EPA LUST, HIST LUST - MN, LUST - MN,  
 WIMN - MN] **(cont.)**

**EnviroSite ID:** 42966738  
**EPA ID:** N/R

## WIMN - MN (cont.)

Program Name : Tanks  
 Activity Type : Underground Tanks  
 Activity ID : TS0014657  
 Industrial Classification : N/R  
 Active : No

Owner Details  
 Owner Name : Jay Pederson

Map Id: B7  
 Direction: WSW  
 Distance: 0.342 mi., 1804 ft.  
 Elevation: 666 ft.  
 Relative: Lower

**Site Name :** LESTER PARK LAUNDROMAT | Lester Park  
 Soil Vapor  
 5927 E SUPERIOR ST  
 DULUTH | Duluth, MN  
**Database(s) :** [MPCA SITE ASSESSMENT - MN, SHWS -  
 MN, WIMN - MN]

**EnviroSite ID:** 3474611  
**EPA ID:** N/R

## MPCA SITE ASSESSMENT - MN

Facility Name : Lester Park Soil Vapor  
 Facility Address : 5927 E Superior St, Duluth, MN 55804  
 County : St. Louis

## Site Details

Item ID : 40838-AREA0000000001  
 Site ID : SA0004577  
 Site Type : Site Assessment Site  
 AI ID : 40838  
 AI Name : Lester Park Laundromat  
 Acreage : N/R  
 Hydro : N/R  
 Project Manager : Mark Elliott (former)  
 Status : Closed  
 Listed on the NPL? : No  
 Listed on the PLP? : No  
 A petroleum brownfield? : No  
 A non-petroleum brownfield? : No  
 Listed on EPA's CERCLIS/SEMS list? : No  
 An unpermitted dump? : No  
 Are there institutional controls? : No  
 Hazard Ranking System Score : N/R  
 Year for the HRS Score : N/R  
 Congressional District : 8  
 House District : 3B  
 Senate District : 3



Map Id: B7  
 Direction: WSW  
 Distance: 0.342 mi., 1804 ft.  
 Elevation: 666 ft.  
 Relative: Lower

**Site Name :** LESTER PARK LAUNDROMAT | Lester Park  
 Soil Vapor  
 5927 E SUPERIOR ST  
 DULUTH | Duluth, MN  
**Database(s) :** [MPCA SITE ASSESSMENT - MN, SHWS -  
 MN, WIMN - MN] **(cont.)**

**EnviroSite ID:** 3474611  
**EPA ID:** N/R

## MPCA SITE ASSESSMENT - MN **(cont.)**

HUC8 ID : 04010102  
 HUC8 Name : Lake Superior - South  
 HUC10 ID : 0401010204  
 HUC12 ID : 040101020402  
 HUC12 Name : Talmadge Creek-Frontal Lake Superior  
 DW SMA Code : N/R  
 DW SMA Name : N/R  
 Fed Regulated : No  
 Fed State Regulated : No  
 State Regulated : No  
 Not Regulated : No  
 SF Voluntary : No  
 Coordinate Collection Method : Public Land Survey-Two Quarter

Location Description : Vicinity of 5900 to 6000 block of East Superior Street in the Lester Park area of Duluth, MN. Low concentrations of CVOC vapors were detected in 2 soil borings at different location along this block near a former dry cleaning site.

Latitude : 46.911125  
 Longitude : -91.944571  
 WIMN Link : [Click here for hyperlink provided by the agency.](#)  
 Last Date in Agency List : 2022-03-14

## Activity Details

Activity ID : SIW20120001  
 Activity Description : Site Assessment Investigation  
 Activity Class : SIW  
 Activity Year : 2012  
 Activity Number : 1  
 Site Closed : 2009-10-21  
 Site Start Date : 2009-10-21  
 Site Discover Date : N/R  
 Leak Discovered : N/R  
 Leak Reported : N/R  
 Leak Reopened Date : N/R  
 Date Received : 2009-10-21  
 Site Listed on PLP : N/R  
 Site Delisted from PLP : N/R  
 Site Listed on NPL : N/R  
 Site Deleted from NPL : N/R  
 Fund Finance Approved : N/R  
 Fund Finance Closed : N/R  
 Assessment Completed : N/R  
 Investigation Completed : N/R  
 No Further Action Decision : N/R  
 Remedy Implemented : N/R  
 Remedy Selected : N/R  
 Staff Assign Date : N/R  
 App Completed Date : N/R  
 ER Site Eval Date : N/R



Map Id: B7  
Direction: WSW  
Distance: 0.342 mi., 1804 ft.  
Elevation: 666 ft.  
Relative: Lower

**Site Name :** LESTER PARK LAUNDROMAT | Lester Park  
Soil Vapor  
5927 E SUPERIOR ST  
DULUTH | Duluth, MN  
**Database(s) :** [MPCA SITE ASSESSMENT - MN, SHWS -  
MN, WIMN - MN] (**cont.**)

Envirosite ID: 3474611  
EPA ID: N/R

## SHWS - MN

Facility Name : Lester Park Laundromat  
Facility Address : 5927 E Superior St, Duluth, MN 55804  
County : St. Louis

Site ID : 57743  
Active : N  
Activity ID : SA4577  
Activity Name : Lester Park Soil Vapor  
Activity Type Name : State Assessment Site  
Activity Subtype Name : N/R  
Owner Name : Lester Park Laundromat  
Program Name : Investigation & Cleanup  
Industrial Classification : N/R  
Watershed Name : Lake Superior - South  
Coordinate Method : Address Matching House Number  
Legislative District : 7A  
HUC 8 : 4010102  
Institutional Control : N/R  
Latitude : 46.83818829  
Longitude : -92.01032339  
Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)  
Last Date in Agency List : 2017-03-25

## WIMN - MN

Facility Name : Lester Park Laundromat  
Facility Address : 5927 E Superior St, Duluth, MN 55804-2536  
County : St. Louis

## Site Details

Site ID : 40838  
Activity Subtype Name : N/R  
Institutional Control : No  
Watershed : Lake Superior - South  
Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)  
Latitude : 46.8381095  
Longitude : -92.0102318  
Coordinate Collection Method : Address Matching House Number  
Last Date in Agency List : 2022-02-09

## Activity Details

Program Name : Investigation and Cleanup  
Activity Type : Site Assessment  
Activity ID : SA0004577  
Industrial Classification : N/R  
Active : No



Map Id: B7  
 Direction: WSW  
 Distance: 0.342 mi., 1804 ft.  
 Elevation: 666 ft.  
 Relative: Lower

**Site Name :** LESTER PARK LAUNDROMAT | Lester Park  
 Soil Vapor  
 5927 E SUPERIOR ST  
 DULUTH | Duluth, MN  
**Database(s) :** [MPCA SITE ASSESSMENT - MN, SHWS -  
 MN, WIMN - MN] **(cont.)**

**Envirosite ID:** 3474611  
**EPA ID:** N/R

WIMN - MN **(cont.)**

Owner Details  
 Owner Name : N/R

Map Id: B8  
 Direction: WSW  
 Distance: 0.345 mi., 1822 ft.  
 Elevation: 660 ft.  
 Relative: Lower

**Site Name :** LESTER PARK SKELLY | Atkinson Service  
 Station | Jims Lester Park Skelly  
 5930 E SUPERIOR ST  
 Duluth | DULUTH, MN 55804  
**Database(s) :** [EPA LUST, HIST LUST - MN, LUST - MN,  
 WIMN - MN]

**Envirosite ID:** 43016694  
**EPA ID:** N/R

EPA LUST

Facility Name : Lester Park Skelly  
 Facility Address : 5930 E Superior St, Duluth, Minnesota 55804  
 County : St. Louis

Facility ID : MN23367  
 LUST ID : MNLS0000058  
 Reported Date : 1986-12-08  
 Status : No Further Action  
 Substance : Diesel Fuel  
 Closed With Residual Contamination  
 (Tribal Only): N/R  
 NFA\_Letter (Tribal Only) : N/R  
 Tribe (Tribal Only) : N/R  
 EPA Region : 5  
 Estimated Population within 1500ft : 612  
 Estimated Private Domestic Wells within  
 1500ft: 2  
 Within Source Water Protection Area  
 (SPA): No  
 SPA Public Water System and Facility ID: N/R  
 SPA Water Type : N/R  
 SPA Facility Type : N/R  
 SPA HUC12 : N/R  
 Within Groundwater Wellhead Protection  
 Area (WHPA): No  
 WHPA Public Water System and Facility  
 ID: N/R  
 WHPA Water Type : N/R  
 WHPA Facility Type : N/R  
 WHPA HUC12 : N/R  
 Within Estimated 100-year Floodplain: No  
 Latitude : 46.83807  
 Longitude : -92.00928999999999  
 Last Date in Agency List : 2022-04-22



Map Id: B8  
 Direction: WSW  
 Distance: 0.345 mi., 1822 ft.  
 Elevation: 660 ft.  
 Relative: Lower

**Site Name :** LESTER PARK SKELLY | Atkinson Service Station | Jims Lester Park Skelly  
 5930 E SUPERIOR ST  
 Duluth | DULUTH, MN 55804  
**Database(s) :** [EPA LUST, HIST LUST - MN, LUST - MN, WIMN - MN] **(cont.)**

**Envirosite ID:** 43016694  
**EPA ID:** N/R

## HIST LUST - MN

Facility Name : Atkinson Service Station  
 Facility Address : 5930 E Superior St, Duluth, MN 55804

### Site Details

Interest Start Date : 1994-07-05  
 Interest End Date : 2006-03-23 13:20  
 Interest Phone : NO CORE PI PH.  
 Interest Type : Leak Site  
 TMSP Last Update : 2014-11-10 08:17  
 TMSP Added : 2006-03-23 13:20  
 Program ID : 213076  
 Site ID : 23099  
 Preferred ID : 58  
 Address ID : 33099  
 Township Name : N/R  
 Staff ID Last Update : RGAGLE  
 Source : CORE  
 Active Flag : N  
 Comments : N/R  
 Last Date in Agency List : 2017-10-11

### Leak Site Summary

Release Discovered Date : 1986-12-08  
 Leak Report Date : 1986-12-08  
 Enforcement Action Begin Date : 1986-12-11  
 Complete Site Closure Date : 1990-04-01  
 TMSP Last Update : 2012-04-25 16:11  
 TMSP Added : 1999-12-04 14:03  
 Leak Site Type Code : Leak site (tank and petroleum contamination).  
 Staff ID Last Update : JDIETZ  
 File Archive Box : 01  
 File Archive Lot : 94/372  
 CU YDS Excavated Quantity : 50  
 Soil Dig Out Date : 1987-10-05  
 STD Letter Response Date : N/R  
 COND Closure Date : N/R  
 LUST Trust Eligible Flag : Y  
 REIMB Awarded Flag : N  
 Utility Project Flag : N  
 Tank REG Status Code : Federal  
 Sub Slab Sample Collected Flag : N/R  
 Indoor Air Collected Flag : N/R  
 Contaminated Soils Remaining Flag : Y  
 Surface Water Impact Flag : U  
 Offsite Contamination Flag : N  
 Residence Type Code : N/R  
 Release from AST Flag : N  
 Release from UST Flag : N  
 Vapor Intrusion Checked Application Date: N/R  
 Vapor Intrusion Checked Acres : N/R



Map Id: B8  
 Direction: WSW  
 Distance: 0.345 mi., 1822 ft.  
 Elevation: 660 ft.  
 Relative: Lower

**Site Name :** LESTER PARK SKELLY | Atkinson Service Station | Jims Lester Park Skelly  
 5930 E SUPERIOR ST  
 Duluth | DULUTH, MN 55804

**Database(s) :** [EPA LUST, HIST LUST - MN, LUST - MN, WIMN - MN] **(cont.)**

**Envirosite ID:** 43016694  
**EPA ID:** N/R

#### HIST LUST - MN **(cont.)**

Vapor Intrusion Checked Flag :	N/R
Vapor Intrusion Action Flag :	N/R
Vapor Intrusion Comments :	N/R
Soil Gas Data Collected Flag :	N/R
Soil Gas Action Level Flag :	N/R
Soil Gas Data Comments :	N/R

#### LUST - MN

Facility Name :	Atkinson Service Station
Facility Address :	5930 E Superior St, Duluth, MN 55804
County :	St. Louis

#### Site Details

Item ID :	23367-AREA0000000001
Site ID :	LS0000058
Site Type :	Leak Site
AI ID :	23367
AI Name :	Lester Park Skelly
Acreage :	N/R
Hydro :	N/R
Project Manager :	Chris Zadak (former)
Status :	Closed
Listed on the NPL? :	No
Listed on the PLP? :	No
A petroleum brownfield? :	No
A non-petroleum brownfield? :	No
Listed on EPA's CERCLIS/SEMS list? :	No
An unpermitted dump? :	No
Are there institutional controls? :	No
Hazard Ranking System Score :	N/R
Year for the HRS Score :	N/R
Congressional District :	8
House District :	7A
Senate District :	7
HUC8 ID :	04010102
HUC8 Name :	Lake Superior - South
HUC10 ID :	0401010204
HUC12 ID :	040101020405
HUC12 Name :	City of Duluth-Frontal Lake Superior
DW SMA Code :	N/R
DW SMA Name :	N/R
Fed Regulated :	Yes
Fed State Regulated :	No
State Regulated :	No
Not Regulated :	No
SF Voluntary :	No
Coordinate Collection Method :	Digitized - MPCA internal map
Location Description :	N/R
Latitude :	46.83807
Longitude :	-92.009295
WIMN Link :	<a href="#">Click here for hyperlink provided by the agency.</a>
Last Date in Agency List :	2022-03-16



Map Id: B8  
 Direction: WSW  
 Distance: 0.345 mi., 1822 ft.  
 Elevation: 660 ft.  
 Relative: Lower

**Site Name :** LESTER PARK SKELLY | Atkinson Service Station | Jims Lester Park Skelly  
 5930 E SUPERIOR ST  
 Duluth | DULUTH, MN 55804  
**Database(s) :** [EPA LUST, HIST LUST - MN, LUST - MN, WIMN - MN] **(cont.)**

**Envirosite ID:** 43016694  
**EPA ID:** N/R

## LUST - MN (cont.)

### Activity Details

Activity ID :	SIW19860001
Activity Description :	Leak Site Investigation
Activity Class :	SIW
Activity Year :	1986
Activity Number :	1
Site Closed :	1990-04-01
Site Start Date :	1986-12-08
Site Discover Date :	N/R
Leak Discovered :	1986-12-08
Leak Reported :	1986-12-08
Leak Reopened Date :	N/R
Date Received :	N/R
Site Listed on PLP :	N/R
Site Delisted from PLP :	N/R
Site Listed on NPL :	N/R
Site Deleted from NPL :	N/R
Fund Finance Approved :	N/R
Fund Finance Closed :	N/R
Assessment Completed :	N/R
Investigation Completed :	N/R
No Further Action Decision :	N/R
Remedy Implemented :	N/R
Remedy Selected :	N/R
Staff Assign Date :	N/R
App Completed Date :	N/R
ER Site Eval Date :	N/R

## WIMN - MN

Facility Name :	Lester Park Skelly
Facility Address :	5930 E Superior St, Duluth, MN 55804
County :	St. Louis

### Site Details

Site ID :	23367
Activity Subtype Name :	N/R
Institutional Control :	No
Watershed :	Lake Superior - South
Agency Hyperlink :	<a href="#">Click here for hyperlink provided by the agency.</a>
Latitude :	46.8379911
Longitude :	-92.0100988
Coordinate Collection Method :	Address Matching House Number
Last Date in Agency List :	2022-02-09

Site ID :	23367
Activity Subtype Name :	Leak Site
Institutional Control :	No
Watershed :	Lake Superior - South
Agency Hyperlink :	<a href="#">Click here for hyperlink provided by the agency.</a>
Latitude :	46.8379911
Longitude :	-92.0100988



Map Id: B8  
 Direction: WSW  
 Distance: 0.345 mi., 1822 ft.  
 Elevation: 660 ft.  
 Relative: Lower

**Site Name :** LESTER PARK SKELLY | Atkinson Service Station | Jims Lester Park Skelly  
 5930 E SUPERIOR ST  
 Duluth | DULUTH, MN 55804  
**Database(s) :** [EPA LUST, HIST LUST - MN, LUST - MN, WIMN - MN] **(cont.)**

**Envirosite ID:** 43016694  
**EPA ID:** N/R

## WIMN - MN (cont.)

Coordinate Collection Method :  
 Last Date in Agency List :

Address Matching House Number  
 2022-02-09

## Activity Details

Program Name :  
 Activity Type :  
 Activity ID :  
 Industrial Classification :  
 Active :

Investigation and Cleanup  
 Petroleum Remediation  
 LS0000058  
 Gasoline Stations with Convenience Stores  
 No

Program Name :  
 Activity Type :  
 Activity ID :  
 Industrial Classification :  
 Active :

Tanks  
 Underground Tanks  
 TS0005270  
 Gasoline Stations with Convenience Stores  
 No

## Owner Details

Owner Name :

James L Atkinson

Map Id: 9  
 Direction: NNE  
 Distance: 0.355 mi., 1874 ft.  
 Elevation: 828 ft.  
 Relative: Higher

**Site Name :** LESTER PARK GOLF COURSE | DULUTH CITY OF - LESTER GOLF | LESTER PARK GOLF MANAGEMENT LLC  
 1860 LESTER RIVER RD  
 Duluth | DULUTH, MN  
**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO, EPA LUST, EPA UST, ERNS, FRS, HIST LUST - MN, HIST TANK SITES - MN, HWG - MN, LUST - MN, MANIFEST - MN, MDA LIC - MN, RCRA\_NONGEN, UST - MN, WIMN - MN]

**Envirosite ID:** 42994676  
**EPA ID:** N/R

## AG\_LICENSES - MN

Facility Name :  
 Facility Address :  
 County :

LESTER PARK GOLF MANAGEMENT LLC  
 1860 LESTER RIVER RD, DULUTH, MN 55804  
 SAINT LOUIS

Expiration Date :  
 License Number :  
 License Type :  
 Relationship :

2018-12-31  
 20112967  
 NON-COMMERCIAL PESTICIDE APPLICATOR  
 EMPLOYER



Map Id: 9  
 Direction: NNE  
 Distance: 0.355 mi., 1874 ft.  
 Elevation: 828 ft.  
 Relative: Higher

**Site Name :** LESTER PARK GOLF COURSE | DULUTH CITY OF - LESTER GOLF | LESTER PARK GOLF MANAGEMENT LLC  
 1860 LESTER RIVER RD  
 Duluth | DULUTH, MN

**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO, EPA LUST, EPA UST, ERNS, FRS, HIST LUST - MN, HIST TANK SITES - MN, HWG - MN, LUST - MN, MANIFEST - MN, MDA LIC - MN, RCRA\_NONGEN, UST - MN, WIMN - MN] **(cont.)**

EnviroSite ID: 42994676  
 EPA ID: N/R

#### AG\_LICENSES - MN (cont.)

Phone Number : N/R  
 Last Date in Agency List : 2020-02-06

#### AST - MN

Facility Name : Lester Park Golf Course  
 Facility Address : 1860 Lester River Rd, Duluth, MN 55804  
 County : St. Louis

Item Compartment : 42034-EQUI0000000003-1  
 AI ID : 42034  
 Tank Site ID : TS0005358  
 Item ID : 42034-EQUI0000000003  
 SI Type : Aboveground Storage Tank  
 SI Designation : 2  
 SI Description : N/R  
 Compartment Number : 1  
 Capacity (Gallon) : 500  
 Substance : Diesel Fuel  
 Tank Wall Type : Double  
 Tank Material : Carbon steel  
 Overfill Prevention System : AST None  
 Installation Date : 1994-09-15  
 Last Update : 1994-11-01  
 Tank Status : Active  
 Tank Contractor : N/R  
 Owner Name : Enger Golf Course  
 Owner Address : 1801 W Skyline Blvd  
 Programs : AT  
 Cathodic Protection System : N/R  
 Tank Leak Detection : N/R  
 Special Use Description : N/R  
 Vapor Recovery : N/R  
 Coord Collection Method : Address Matching House Number  
 Pipe Wall : N/R  
 Pipe Material : N/R  
 Location Description : N/R  
 Pipe Leak Detection : N/R  
 Pipe Corrosion Protection : N/R  
 Latitude : 46.857975  
 Longitude : -91.999024  
 Tank URL : [Click here for hyperlink provided by the agency.](#)  
 Last Date in Agency List : 2022-03-22

Item Compartment : 42034-EQUI0000000004-1  
 AI ID : 42034  
 Tank Site ID : TS0005358



Map Id: 9  
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 Elevation: 828 ft.  
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 1860 LESTER RIVER RD  
 Duluth | DULUTH, MN

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Envirosite ID: 42994676  
 EPA ID: N/R

#### AST - MN **(cont.)**

Item ID :	42034-EQUI0000000004
SI Type :	Aboveground Storage Tank
SI Designation :	1
SI Description :	N/R
Compartment Number :	1
Capacity (Gallon) :	500
Substance :	Gasoline Blends (E1-E49)
Tank Wall Type :	Double
Tank Material :	Carbon steel
Overfill Prevention System :	AST None
Installation Date :	1994-09-15
Last Update :	1994-11-01
Tank Status :	Active
Tank Contractor :	N/R
Owner Name :	Enger Golf Course
Owner Address :	1801 W Skyline Blvd
Programs :	AT
Cathodic Protection System :	N/R
Tank Leak Detection :	N/R
Special Use Description :	N/R
Vapor Recovery :	N/R
Coord Collection Method :	Address Matching House Number
Pipe Wall :	N/R
Pipe Material :	N/R
Location Description :	N/R
Pipe Leak Detection :	N/R
Pipe Corrosion Protection :	N/R
Latitude :	46.857975
Longitude :	-91.999024
Tank URL :	<a href="#">Click here for hyperlink provided by the agency.</a>
Last Date in Agency List :	2022-03-22

#### ECHO

Facility Name :	DULUTH CITY OF - LESTER GOLF
Facility Address :	1860 LESTER RIVER RD, DULUTH, MN 55804
County :	ST LOUIS
Last Inspection Date :	N/R
Registry ID :	110003844010
FIPS Code :	27137
EPA Region :	05
Inspection Count :	0
Last Inspection Days :	N/R
Informal Count :	0
Last Informal Action Date :	N/R
Formal Action Count :	0
Last Formal Action Date :	N/R



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 1860 LESTER RIVER RD  
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**EnviroSite ID:** 42994676  
**EPA ID:** N/R

## ECHO (cont.)

Total Penalties :	0
Penalty Count :	N/R
Last Penalty Date :	N/R
Last Penalty Amount :	N/R
QTRS IN NC :	0
Programs IN SNC :	0
Current Compliance Status :	No Violation Identified
Three-Year Compliance Status :	
Collection Method :	ADDRESS MATCHING-HOUSE NUMBER
Reference Point :	CENTER OF A FACILITY OR STATION
Accuracy Meters :	30
Derived Tribes :	Minnesota Chippewa Tribe, Minnesota (Fond du Lac Band) - 5.9 mile(s), Minnesota Chippewa Tribe, Minnesota (Fond du Lac Band) - 21.9 mile(s)
Derived HUC :	04010102
Derived WBD :	040101020404
Derived STCTY FIPS :	27137
Derived Zip :	55804
Derived CD113 :	08
Derived CB2010 :	271370002004028
MYRTK Universe :	NNN
NPDES IDs :	N/R
CWA Permit Types :	N/R
CWA Compliance Tracking :	N/R
CWA NAICS :	N/R
CWA SICS :	N/R
CWA Inspection Count :	N/R
CWA Last Inspection Days :	N/R
CWA Informal Count :	N/R
CWA Formal Action Count :	N/R
CWA Last Formal Action Date :	N/R
CWA Penalties :	N/R
CWA Last Penalty Date :	N/R
CWA Last Penalty Amount :	N/R
CWA Quarters IN NC :	N/R
CWA Current Compliance Status :	N/R
CWA Current SNC Flag :	N
CWA 13 Quarters Compliance Status :	N/R
CWA 13 Quarters Effluent Exceedances:	N/R
CWA Three-Year QNCR Codes :	N/R
DFR URL :	<a href="#">Click here for hyperlink provided by the agency.</a>
Facility SIC :	N/R
Facility NAICS :	N/R
Facility Last Inspection EPA Date :	N/R
Facility Last Inspection State Date :	N/R
Facility Last Formal Act EPA Date :	N/R
Facility Last Formal Act State Date :	N/R
Facility Last Informal Act EPA Date :	N/R



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**Envirosite ID:** 42994676  
**EPA ID:** N/R

## ECHO (cont.)

Facility Last Informal Act State Date:	N/R
Facility Federal Agency :	N/R
TRI Reporter :	N/R
Facility Imp Water Flag :	N/R
Current SNC Flag :	N
Indian County Flag :	N
Federal Flag :	N/R
US Mexico Border Flag :	N/R
Chesapeake Bay Flag :	N/R
AIR Flag :	N
NPDES Flag :	N
SDWIS Flag :	N
RCRA Flag :	Y
TRI Flag :	N
GHG Flag :	N
Major Flag :	N/R
Active Flag :	N/R
NAA Flag :	N
Latitude :	46.84594
Longitude :	-92.00289
Last Date in Agency List :	2022-03-29

## EPA LUST

Facility Name :	Lester Park Golf Course
Facility Address :	1860 Lester River Rd, Duluth, Minnesota 55804
County :	St. Louis
Facility ID :	MN42034
LUST ID :	MNLS0002536
Reported Date :	1990-04-24
Status :	No Further Action
Substance :	N/R
Closed With Residual Contamination (Tribal Only):	N/R
NFA_Letter (Tribal Only) :	N/R
Tribe (Tribal Only) :	N/R
EPA Region :	5
Estimated Population within 1500ft :	7
Estimated Private Domestic Wells within 1500ft:	1
Within Source Water Protection Area (SPA):	No
SPA Public Water System and Facility ID:	N/R
SPA Water Type :	N/R
SPA Facility Type :	N/R
SPA HUC12 :	N/R



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 Duluth | DULUTH, MN

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**Envirosite ID:** 42994676  
**EPA ID:** N/R

## EPA LUST (cont.)

Within Groundwater Wellhead Protection Area (WHPA):	No
WHPA Public Water System and Facility ID:	N/R
WHPA Water Type :	N/R
WHPA Facility Type :	N/R
WHPA HUC12 :	N/R
Within Estimated 100-year Floodplain:	No
Latitude :	46.85085
Longitude :	-91.99984
Last Date in Agency List :	2022-04-22

## EPA UST

Facility Name :	Lester Park Golf Course
Facility Address :	1860 Lester River Rd, Duluth, Minnesota 55804
County :	N/R

Facility ID :	MNTS0005358
Facility Status :	Closed UST(s)
Open USTs :	0
Closed USTs :	2
Temporarily Out of Service USTs :	0
Date of Last Inspection :	N/R
EPA Region :	5
Tribe :	N/R
Facility ID 2 :	N/R
Latitude :	46.85797488
Longitude :	-91.99902405
Last Date in Agency List :	2022-04-07

## Tank Details

Tank ID :	42034-EQUI0000000001-1
Tank Status :	Closed
Installation Date :	N/R
Removal Date :	1990-04-24
Capacity :	N/R
Substances :	Gasoline
Tank Wall Type :	Single

Tank ID :	42034-EQUI0000000002-1
Tank Status :	Closed
Installation Date :	1975-06-01
Removal Date :	1990-04-24
Capacity :	350



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 1860 LESTER RIVER RD  
 Duluth | DULUTH, MN

**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO, EPA LUST, EPA UST, ERNS, FRS, HIST LUST - MN, HIST TANK SITES - MN, HWG - MN, LUST - MN, MANIFEST - MN, MDA LIC - MN, RCRA\_NONGEN, UST - MN, WIMN - MN] **(cont.)**

**Envirosite ID:** 42994676  
**EPA ID:** N/R

## EPA UST (cont.)

Substances : Gasoline  
 Tank Wall Type : Single

## ERNS

Facility Address : 1860 LESTER RIVER ROAD, DULUTH, MN 55804  
 County : ST. LOUIS

## Incident Information

Incident Date Time : 2016-07-22 12:00:00  
 Type of Incident : MOBILE  
 Incident Cause : EQUIPMENT FAILURE  
 Incident DTG : OCCURRED  
 Incident Location : NEXT TO THE MAINTENANCE BUILDING OIL IN THE SOIL  
 Sequence Number : 1157012  
 Potential Flag : N

Description of Incident : CALLER STATED THERE IS A SPILL OF MATERIALS FROM A HYDRAULIC TANK ON A TRUCK THAT IS CONTAMINATING THE GROUND.

Last Date in Agency List : 2016-10-05

## Incident Response Summary

Date Time Received : 2016-08-22 16:00:00  
 Date Time Completed : 2016-08-22 16:10:00  
 Call Type : Incident  
 Source : TELEPHONE  
 Responsible Company : LESTER PARK GOLF COURSE  
 Responsible Org Type : LOCAL GOVERNMENT  
 Responsible City : DULUTH  
 Responsible State : MN  
 Responsible Zip : 55804

## Incident Details Summary

Remedial Action : N/R  
 Medium : ONTO THE GROUND  
 Medium Description : LAND  
 Body of Water : N/R  
 Weather Conditions : UNKNOWN  
 Water Temperature : N/R  
 Water Supply Contaminated : U  
 Waterway Closed : N  
 Waterway Description : N/R



Map Id: 9  
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**Site Name :** LESTER PARK GOLF COURSE | DULUTH CITY OF - LESTER GOLF | LESTER PARK GOLF MANAGEMENT LLC  
 1860 LESTER RIVER RD  
 Duluth | DULUTH, MN

**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO, EPA LUST, EPA UST, ERNS, FRS, HIST LUST - MN, HIST TANK SITES - MN, HWG - MN, LUST - MN, MANIFEST - MN, MDA LIC - MN, RCRA\_NONGEN, UST - MN, WIMN - MN] **(cont.)**

**Envirosite ID:** 42994676  
**EPA ID:** N/R

## ERNS (cont.)

### Additional Incident Details Summary

Actual Amount :	N/R
Actual Amount Units :	N/R
Capacity of Tank :	N/R
Capacity of Tank Units :	N/R
Continuous Release Begin Date :	N/R
Continuous Release End Date :	N/R
Continuous Release Change Date :	N/R
Continuous Release Permit :	N/R
Continuous Release Type :	N/R
Description of Tank :	N/R
Device Operational :	U
DOT Crossing Number :	N/R
DOT Regulated :	U
NPDES :	N/R
NPDES Compliance :	U
Pipeline Aboveground :	ABOVE
Pipeline Covered :	U
Pipeline Type :	N/R
Tank ID :	N/R
Tank Regulated :	U
Tank Regulated by :	N/R

### Materials Involved Summary

Name of Material :	HYDRAULIC OIL
CAS Number :	000000-00-0
Amount of Material :	0
Unit of Measure :	UNKNOWN AMOUNT
UN Number :	N/R
CHRIS Code :	OHY
Reached Water :	NO
Amount in Water :	N/R
Unit of Measure (Reach Water) :	N/R

### Mobile Details

Vehicle Own Fuel Capacity :	N/R
Cargo Capacity :	N/R
Amount of Cargo on Board :	N/R
Hazmat Carrier :	U
Carrier Licensed :	U
Noncompliance with Hazmat :	U
Mobile Type :	PASSENGER TRUCK
Cargo Capacity Units :	N/R
Amount of Cargo on Board Units :	N/R
Vehicle Year :	N/R



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1860 LESTER RIVER RD  
Duluth | DULUTH, MN

**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO, EPA LUST, EPA UST, ERNS, FRS, HIST LUST - MN, HIST TANK SITES - MN, HWG - MN, LUST - MN, MANIFEST - MN, MDA LIC - MN, RCRA\_NONGEN, UST - MN, WIMN - MN] **(cont.)**

EnviroSite ID: 42994676  
EPA ID: N/R

#### ERNS (cont.)

Vehicle Make : N/R  
Vehicle Model : N/R  
Vehicle Number : (UNKNOWN)  
Trailer Number : N/R

#### FRS

Facility Name : DULUTH CITY OF - LESTER GOLF  
Facility Address : 1860 LESTER RIVER RD, DULUTH, MN 55804-3030  
County : ST LOUIS

#### Site Details

Registry ID : 110003844010  
FRS Facility URL : [Click here for hyperlink provided by the agency.](#)  
Last Date in Agency List : 2022-02-17

#### Source Description

##### Source Description :

RCRAInfo is EPA's comprehensive information system that supports the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984 through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA. RCRAInfo also supports generation of the National Hazardous Waste Biennial Report. All generators and treatment, storage, and disposal facilities who handle hazardous waste are required to report to the EPA Administrator at least once every two years to support creation of the Biennial Report.

#### FRS Environmental Interest

Source and System ID : RCRAINFO - MND985692557

Facility Name : LESTER PARK GOLF COURSE  
Facility Address : 1860 LESTER RIVER RD, DULUTH, MN 55804  
County : ST. LOUIS

#### Site Details

Registry ID : 110068357913  
FRS Facility URL : [Click here for hyperlink provided by the agency.](#)  
Last Date in Agency List : 2022-02-17



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1860 LESTER RIVER RD  
Duluth | DULUTH, MN

**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO, EPA LUST, EPA UST, ERNS, FRS, HIST LUST - MN, HIST TANK SITES - MN, HWG - MN, LUST - MN, MANIFEST - MN, MDA LIC - MN, RCRA\_NONGEN, UST - MN, WIMN - MN] **(cont.)**

EnviroSite ID: 42994676  
EPA ID: N/R

#### FRS (cont.)

##### Source Description

###### Source Description :

Minnesota's permitting, compliance, and enforcement information management system.

FRS Environmental Interest  
Source and System ID :

MN-TEMPO - 42034

##### Site Details

Registry ID : 110044366067  
FRS Facility URL : [Click here for hyperlink provided by the agency.](#)  
Last Date in Agency List : 2016-05-21

##### Source Description

###### Source Description :

The MN-DELTA is the Minnesota Pollution Control Agency's (MPCA) permitting, compliance, and enforcement information management system, which facilitates the issuance of permits and manages compliance.

FRS Environmental Interest  
Source and System ID :

MN-DELTA - 55936

#### HIST LUST - MN

Facility Name : Lester Park Golf Course  
Facility Address : 1860 Lester River Rd, Duluth, MN 55804

##### Site Details

Interest Start Date : 1998-07-01  
Interest End Date : 2006-11-13 08:36  
Interest Phone : NO CORE PI PH.  
Interest Type : Leak Site  
TMSP Last Update : 2014-11-10 08:17  
TMSP Added : 2006-11-13 08:36  
Program ID : 215335  
Site ID : 55936  
Preferred ID : 2536



Map Id: 9  
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**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO, EPA LUST, EPA UST, ERNS, FRS, HIST LUST - MN, HIST TANK SITES - MN, HWG - MN, LUST - MN, MANIFEST - MN, MDA LIC - MN, RCRA\_NONGEN, UST - MN, WIMN - MN] **(cont.)**

Envirosite ID: 42994676  
 EPA ID: N/R

#### HIST LUST - MN **(cont.)**

Address ID : 65071  
 Township Name : N/R  
 Staff ID Last Update : RGAGLE  
 Source : CORE  
 Active Flag : N  
 Comments : N/R  
 Last Date in Agency List : 2017-10-11

#### Leak Site Summary

Release Discovered Date : 1990-04-24  
 Leak Report Date : 1990-05-16  
 Enforcement Action Begin Date : 1990-05-30  
 Complete Site Closure Date : 1998-07-08  
 TMSP Last Update : 2014-06-30 13:51  
 TMSP Added : 1999-12-04 14:03  
 Leak Site Type Code : Leak site (tank and petroleum contamination).  
 Staff ID Last Update : DBOETTC  
 File Archive Box : N/R  
 File Archive Lot : N/R  
 CU YDS Excavated Quantity : 400  
 Soil Dig Out Date : 1990-04-24  
 STD Letter Response Date : N/R  
 COND Closure Date : N/R  
 LUST Trust Eligible Flag : Y  
 REIMB Awarded Flag : N  
 Utility Project Flag : N  
 Tank REG Status Code : Federal  
 Sub Slab Sample Collected Flag : N/R  
 Indoor Air Collected Flag : N/R  
 Contaminated Soils Remaining Flag : S  
 Surface Water Impact Flag : U  
 Offsite Contamination Flag : U  
 Residence Type Code : N/R  
 Release from AST Flag : N  
 Release from UST Flag : N  
 Vapor Intrusion Checked Application Date: N/R  
 Vapor Intrusion Checked Acres : N/R  
 Vapor Intrusion Checked Flag : N/R  
 Vapor Intrusion Action Flag : N/R  
 Vapor Intrusion Comments : N/R  
 Soil Gas Data Collected Flag : N/R  
 Soil Gas Action Level Flag : N/R  
 Soil Gas Data Comments : N/R



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**EnviroSite ID:** 42994676  
**EPA ID:** N/R

## HIST TANK SITES - MN

Facility Name : Lester Park Golf Course  
 Facility Address : 1860 Lester River Rd, Duluth, MN 55804  
 County : St. Louis

Tank Registration Date : 1994-11-01  
 Tank Status : Active  
 Tank Storage Capacity : 500  
 Tank Regulation Status : Non-regulated  
 MPCA Tank Number : 1001  
 Program ID : 194744  
 Above or Under Ground : Above Ground  
 Tank Cathodic Protection : N/R  
 Piping Cathodic Protection : N/R  
 Tank Stored Product : Gasoline  
 Client Tank Number : 1  
 AST Base Material : On Concrete  
 Piping Material : None  
 Secondary Containment Tank : N/R  
 Secondary Containment Pipe : N/R  
 Tank Construction Material : AST, Doublewall Metal  
 Tank Dispenser Type : N/R  
 Unregistered Tank Reported Date : N/R  
 Compartmental Flag : N/R  
 Heating Product Flag : N/R  
 HW Generator ID : N/R  
 Product Replaced Date : N/R  
 Sludge Disposal Facility : N/R  
 Compliant Flag : Y  
 Serial Number : N/R  
 Tank Dual Use : N  
 TMSP Added : 1999-10-10  
 TMSP Last Updated : 2013-01-07  
 Staff ID Last Updated : RSUCHAN  
 Comments : N/R

Tank Registration Date : 1994-11-01  
 Tank Status : Active  
 Tank Storage Capacity : 500  
 Tank Regulation Status : Non-regulated  
 MPCA Tank Number : 1002  
 Program ID : 194744  
 Above or Under Ground : Above Ground  
 Tank Cathodic Protection : N/R  
 Piping Cathodic Protection : N/R  
 Tank Stored Product : Diesel  
 Client Tank Number : 2  
 AST Base Material : On Concrete



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 1860 LESTER RIVER RD  
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**Envirosite ID:** 42994676  
**EPA ID:** N/R

## HIST TANK SITES - MN (cont.)

Piping Material :	None
Secondary Containment Tank :	N/R
Secondary Containment Pipe :	N/R
Tank Construction Material :	AST, Doublewall Metal
Tank Dispenser Type :	N/R
Unregistered Tank Reported Date :	N/R
Compartmental Flag :	N/R
Heating Product Flag :	N/R
HW Generator ID :	N/R
Product Replaced Date :	N/R
Sludge Disposal Facility :	N/R
Compliant Flag :	Y
Serial Number :	N/R
Tank Dual Use :	N
TMSP Added :	1999-10-10
TMSP Last Updated :	2013-01-07
Staff ID Last Updated :	RSUCHAN
Comments :	N/R
Tank Registration Date :	1986-10-08
Tank Status :	Removed
Tank Storage Capacity :	350
Tank Regulation Status :	Federal+State
MPCA Tank Number :	001
Program ID :	194744
Above or Under Ground :	Under Ground
Tank Cathodic Protection :	None
Piping Cathodic Protection :	None
Tank Stored Product :	Gasoline
Client Tank Number :	001
AST Base Material :	N/R
Piping Material :	Steel/Iron
Secondary Containment Tank :	N/R
Secondary Containment Pipe :	N/R
Tank Construction Material :	Bare/Paint/Asph Coat Steel
Tank Dispenser Type :	Suction
Unregistered Tank Reported Date :	N/R
Compartmental Flag :	N/R
Heating Product Flag :	U
HW Generator ID :	N/R
Product Replaced Date :	N/R
Sludge Disposal Facility :	N/R
Compliant Flag :	N
Serial Number :	N/R
Tank Dual Use :	N
TMSP Added :	1999-10-10
TMSP Last Updated :	2013-01-07
Staff ID Last Updated :	RSUCHAN



Map Id: 9  
 Direction: NNE  
 Distance: 0.355 mi., 1874 ft.  
 Elevation: 828 ft.  
 Relative: Higher

**Site Name :** LESTER PARK GOLF COURSE | DULUTH CITY OF - LESTER GOLF | LESTER PARK GOLF MANAGEMENT LLC  
 1860 LESTER RIVER RD  
 Duluth | DULUTH, MN

**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO, EPA LUST, EPA UST, ERNS, FRS, HIST LUST - MN, HIST TANK SITES - MN, HWG - MN, LUST - MN, MANIFEST - MN, MDA LIC - MN, RCRA\_NONGEN, UST - MN, WIMN - MN] **(cont.)**

**Envirosite ID:** 42994676  
**EPA ID:** N/R

## HIST TANK SITES - MN (cont.)

Comments :	N/R
Tank Registration Date :	1986-10-08
Tank Status :	Removed
Tank Storage Capacity :	0
Tank Regulation Status :	Non-regulated
MPCA Tank Number :	002
Program ID :	194744
Above or Under Ground :	Under Ground
Tank Cathodic Protection :	None
Piping Cathodic Protection :	None
Tank Stored Product :	Gasoline
Client Tank Number :	002
AST Base Material :	N/R
Piping Material :	Other
Secondary Containment Tank :	N/R
Secondary Containment Pipe :	N/R
Tank Construction Material :	Other
Tank Dispenser Type :	Gravity
Unregistered Tank Reported Date :	N/R
Compartmental Flag :	N/R
Heating Product Flag :	U
HW Generator ID :	N/R
Product Replaced Date :	N/R
Sludge Disposal Facility :	N/R
Compliant Flag :	Y
Serial Number :	N/R
Tank Dual Use :	N
TMSP Added :	1999-10-10
TMSP Last Updated :	2013-01-07
Staff ID Last Updated :	RSUCHAN
Comments :	N/R

## Additional Tank Information

MPCA Tank Number :	001
Dike Side Material Code :	N/R
Dike Bottom Material Code :	N/R
SPCC Flag :	N/R
AST Monthly Throughput Gallons :	N/R
Overfill Prot None Flag :	N/R
Overfill Prot Ball Float Flag :	N/R
Overfill Prot Auto Shut Flag :	N/R
Overfill Prot Type UNK Flag :	N/R
Overfill Prot No Information Flag :	Y
Overfill Prot Alarm Flag :	N/R
Prd Auto Ln Leak Det Flag :	N



Map Id: 9  
 Direction: NNE  
 Distance: 0.355 mi., 1874 ft.  
 Elevation: 828 ft.  
 Relative: Higher

**Site Name :** LESTER PARK GOLF COURSE | DULUTH  
 CITY OF - LESTER GOLF | LESTER PARK  
 GOLF MANAGEMENT LLC  
 1860 LESTER RIVER RD  
 Duluth | DULUTH, MN

**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO,  
 EPA LUST, EPA UST, ERNS, FRS, HIST  
 LUST - MN, HIST TANK SITES - MN, HWG -  
 MN, LUST - MN, MANIFEST - MN, MDA LIC  
 - MN, RCRA\_NONGEN, UST - MN, WIMN -  
 MN] **(cont.)**

Envirosite ID: 42994676  
 EPA ID: N/R

#### HIST TANK SITES - MN **(cont.)**

Prd Annual Tightness Test Flag :	N
Prd Vapor Monitor Flag :	N
Prd GW Monitor Flag :	N
Prd Interstit Monitor Flag :	N
Prd Three Year Tightness Flag :	N
Prd Euro Suct Flag :	Y
Prd Sir Approve Date :	N/R

MPCA Tank Number :	002
Dike Side Material Code :	N/R
Dike Bottom Material Code :	N/R
SPCC Flag :	N/R
AST Monthly Throughput Gallons :	N/R
Overfill Prot None Flag :	N/R
Overfill Prot Ball Float Flag :	N/R
Overfill Prot Auto Shut Flag :	N/R
Overfill Prot Type UNK Flag :	N/R
Overfill Prot No Information Flag :	Y
Overfill Prot Alarm Flag :	N/R
Prd Auto Ln Leak Det Flag :	N
Prd Annual Tightness Test Flag :	N
Prd Vapor Monitor Flag :	N
Prd GW Monitor Flag :	N
Prd Interstit Monitor Flag :	N
Prd Three Year Tightness Flag :	N
Prd Euro Suct Flag :	N
Prd Sir Approve Date :	N/R

MPCA Tank Number :	1001
Dike Side Material Code :	5
Dike Bottom Material Code :	6
SPCC Flag :	N
AST Monthly Throughput Gallons :	1000
Overfill Prot None Flag :	N/R
Overfill Prot Ball Float Flag :	N/R
Overfill Prot Auto Shut Flag :	N/R
Overfill Prot Type UNK Flag :	N/R
Overfill Prot No Information Flag :	N/R
Overfill Prot Alarm Flag :	N/R
Prd Auto Ln Leak Det Flag :	N/R
Prd Annual Tightness Test Flag :	N/R
Prd Vapor Monitor Flag :	N/R
Prd GW Monitor Flag :	N/R
Prd Interstit Monitor Flag :	N/R
Prd Three Year Tightness Flag :	N/R
Prd Euro Suct Flag :	N/R
Prd Sir Approve Date :	N/R



Map Id: 9  
 Direction: NNE  
 Distance: 0.355 mi., 1874 ft.  
 Elevation: 828 ft.  
 Relative: Higher

**Site Name :** LESTER PARK GOLF COURSE | DULUTH CITY OF - LESTER GOLF | LESTER PARK GOLF MANAGEMENT LLC  
 1860 LESTER RIVER RD  
 Duluth | DULUTH, MN

**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO, EPA LUST, EPA UST, ERNS, FRS, HIST LUST - MN, HIST TANK SITES - MN, HWG - MN, LUST - MN, MANIFEST - MN, MDA LIC - MN, RCRA\_NONGEN, UST - MN, WIMN - MN] **(cont.)**

**Envirosite ID:** 42994676  
**EPA ID:** N/R

## HIST TANK SITES - MN (cont.)

MPCA Tank Number :	1002
Dike Side Material Code :	5
Dike Bottom Material Code :	6
SPCC Flag :	N
AST Monthly Throughput Gallons :	500
Overfill Prot None Flag :	N/R
Overfill Prot Ball Float Flag :	N/R
Overfill Prot Auto Shut Flag :	N/R
Overfill Prot Type UNK Flag :	N/R
Overfill Prot No Information Flag :	N/R
Overfill Prot Alarm Flag :	N/R
Prd Auto Ln Leak Det Flag :	N/R
Prd Annual Tightness Test Flag :	N/R
Prd Vapor Monitor Flag :	N/R
Prd GW Monitor Flag :	N/R
Prd Interstit Monitor Flag :	N/R
Prd Three Year Tightness Flag :	N/R
Prd Euro Suct Flag :	N/R
Prd Sir Approve Date :	N/R

## HWG - MN

Facility Name :	Lester Park Golf Course
Facility Address :	1860 Lester River Rd, Duluth, MN 55804
County :	St. Louis
Site ID :	42034
Active :	N
Activity ID :	MND985692557
Activity Name :	Lester Park Golf Course
Activity Type Name :	Hazardous Waste
Activity Subtype Name :	N/R
Owner Name :	Enger Golf Course
Program Name :	Hazardous Waste
Industrial Classification :	Golf Courses and Country Clubs
Watershed Name :	Lake Superior - South
Coordinate Method :	Address Matching House Number
Legislative District :	8
HUC 8 :	04010102
Institutional Control :	N
Latitude :	46.8616386
Longitude :	-91.996816
Agency Hyperlink :	<a href="#">Click here for hyperlink provided by the agency.</a>
Last Date in Agency List :	2022-02-07

## LUST - MN

Facility Name :	Lester Park Golf Course
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Map Id: 9  
 Direction: NNE  
 Distance: 0.355 mi., 1874 ft.  
 Elevation: 828 ft.  
 Relative: Higher

**Site Name :** LESTER PARK GOLF COURSE | DULUTH CITY OF - LESTER GOLF | LESTER PARK GOLF MANAGEMENT LLC  
 1860 LESTER RIVER RD  
 Duluth | DULUTH, MN

**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO, EPA LUST, EPA UST, ERNS, FRS, HIST LUST - MN, HIST TANK SITES - MN, HWG - MN, LUST - MN, MANIFEST - MN, MDA LIC - MN, RCRA\_NONGEN, UST - MN, WIMN - MN] **(cont.)**

**Envirosite ID:** 42994676  
**EPA ID:** N/R

## LUST - MN (cont.)

Facility Address : 1860 Lester River Rd, Duluth, MN 55804  
 County : St. Louis

## Site Details

Item ID : 42034-AREA0000000002  
 Site ID : LS0002536  
 Site Type : Leak Site  
 AI ID : 42034  
 AI Name : Lester Park Golf Course  
 Acreage : N/R  
 Hydro : Jonathan Smith (no longer at MPCA)  
 Project Manager : James Joslyn (no longer at MPCA)  
 Status : Closed  
 Listed on the NPL? : No  
 Listed on the PLP? : No  
 A petroleum brownfield? : No  
 A non-petroleum brownfield? : No  
 Listed on EPA's CERCLIS/SEMS list? : No  
 An unpermitted dump? : No  
 Are there institutional controls? : No  
 Hazard Ranking System Score : N/R  
 Year for the HRS Score : N/R  
 Congressional District : 8  
 House District : 7A  
 Senate District : 7  
 HUC8 ID : 04010102  
 HUC8 Name : Lake Superior - South  
 HUC10 ID : 0401010204  
 HUC12 ID : 040101020402  
 HUC12 Name : Talmadge Creek-Frontal Lake Superior  
 DW SMA Code : N/R  
 DW SMA Name : N/R  
 Fed Regulated : Yes  
 Fed State Regulated : No  
 State Regulated : No  
 Not Regulated : No  
 SF Voluntary : No  
 Coordinate Collection Method : Digitized - MPCA internal map  
 Location Description : N/R  
 Latitude : 46.850847  
 Longitude : -91.999836  
 WIMN Link : [Click here for hyperlink provided by the agency.](#)  
 Last Date in Agency List : 2022-03-16



Map Id: 9  
 Direction: NNE  
 Distance: 0.355 mi., 1874 ft.  
 Elevation: 828 ft.  
 Relative: Higher

**Site Name :** LESTER PARK GOLF COURSE | DULUTH CITY OF - LESTER GOLF | LESTER PARK GOLF MANAGEMENT LLC  
 1860 LESTER RIVER RD  
 Duluth | DULUTH, MN

**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO, EPA LUST, EPA UST, ERNS, FRS, HIST LUST - MN, HIST TANK SITES - MN, HWG - MN, LUST - MN, MANIFEST - MN, MDA LIC - MN, RCRA\_NONGEN, UST - MN, WIMN - MN] **(cont.)**

**Envirosite ID:** 42994676  
**EPA ID:** N/R

## LUST - MN (cont.)

### Activity Details

Activity ID :	SIW19900001
Activity Description :	Leak Site Investigation
Activity Class :	SIW
Activity Year :	1990
Activity Number :	1
Site Closed :	1998-07-08
Site Start Date :	1990-05-16
Site Discover Date :	N/R
Leak Discovered :	1990-04-24
Leak Reported :	1990-05-16
Leak Reopened Date :	N/R
Date Received :	N/R
Site Listed on PLP :	N/R
Site Delisted from PLP :	N/R
Site Listed on NPL :	N/R
Site Deleted from NPL :	N/R
Fund Finance Approved :	N/R
Fund Finance Closed :	N/R
Assessment Completed :	N/R
Investigation Completed :	N/R
No Further Action Decision :	N/R
Remedy Implemented :	N/R
Remedy Selected :	N/R
Staff Assign Date :	N/R
App Completed Date :	N/R
ER Site Eval Date :	N/R

## MANIFEST - MN

Facility Name :	Lester Park Golf Course
Facility Address :	1860 Lester River Rd, Duluth, MN 55804

### Shipment Details

Details for this site have been truncated due to the large number of available details for this site within this dataset. For the complete details for this site, contact your EnviroSite account representative for a complimentary site report containing all of the details available.

Generator Ship Date :	1999-03-10
Transporter 1 Received Date :	1999-03-10
Transporter 2 Received Date :	N/R
TSD Received Date :	1999-03-10
Generator EPA ID :	MND985692557
Generator AI ID :	42034
Generator AI Name :	Lester Park Golf Course
Generator Address :	1860 Lester River Rd, Duluth, MN 55804



Map Id: 9  
 Direction: NNE  
 Distance: 0.355 mi., 1874 ft.  
 Elevation: 828 ft.  
 Relative: Higher

**Site Name :** LESTER PARK GOLF COURSE | DULUTH CITY OF - LESTER GOLF | LESTER PARK GOLF MANAGEMENT LLC  
 1860 LESTER RIVER RD  
 Duluth | DULUTH, MN

**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO, EPA LUST, EPA UST, ERNS, FRS, HIST LUST - MN, HIST TANK SITES - MN, HWG - MN, LUST - MN, MANIFEST - MN, MDA LIC - MN, RCRA\_NONGEN, UST - MN, WIMN - MN] **(cont.)**

**Envirosite ID:** 42994676  
**EPA ID:** N/R

## MANIFEST - MN (cont.)

Transporter EPA ID :	MNR000033597
Transporter AI ID :	30092
Transporter AI Name :	Como Lube & Supplies Inc
Transporter Address :	1108 Port Terminal Rd, Duluth, MN 55802-2619
Transporter 2 ID :	N/R
Transporter 2 AI ID :	N/R
Transporter 2 AI Name :	N/R
Transporter 2 Address :	N/R
TSD EPA ID :	MNR000033597
TSD AI ID :	30092
TSD AI Name :	Como Lube & Supplies Inc
TSD Address :	1108 Port Terminal Rd, Duluth, MN 55802-2619
Generator Copy Received Date :	1999-03-15
Facility Copy Received Date :	1999-03-15
Comments :	N/R

## Materials Listed

Manifest Row :	1
Hazardous Material Name :	PETROLEUM NAPHTHA,COMBUS. LIQ.
Hazardous Class Number :	N/R
UN NA Number :	NA1993
Packing Group Number :	N/R
Container Quantity :	1
Container Code :	DMML
Waste Quantity :	18
Waste Units Code :	AD
Waste Code List :	D001
Waste Code Description :	IGNITABLE WASTE

## Shipment Details

Generator Ship Date :	1998-08-27
Transporter 1 Received Date :	1998-08-27
Transporter 2 Received Date :	N/R
TSD Received Date :	1998-08-27
Generator EPA ID :	MND985692557
Generator AI ID :	42034
Generator AI Name :	Lester Park Golf Course
Generator Address :	1860 Lester River Rd, Duluth, MN 55804
Transporter EPA ID :	MNR000033597
Transporter AI ID :	30092
Transporter AI Name :	Como Lube & Supplies Inc
Transporter Address :	1108 Port Terminal Rd, Duluth, MN 55802-2619
Transporter 2 ID :	N/R
Transporter 2 AI ID :	N/R
Transporter 2 AI Name :	N/R



Map Id: 9  
 Direction: NNE  
 Distance: 0.355 mi., 1874 ft.  
 Elevation: 828 ft.  
 Relative: Higher

**Site Name :** LESTER PARK GOLF COURSE | DULUTH CITY OF - LESTER GOLF | LESTER PARK GOLF MANAGEMENT LLC  
 1860 LESTER RIVER RD  
 Duluth | DULUTH, MN

**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO, EPA LUST, EPA UST, ERNS, FRS, HIST LUST - MN, HIST TANK SITES - MN, HWG - MN, LUST - MN, MANIFEST - MN, MDA LIC - MN, RCRA\_NONGEN, UST - MN, WIMN - MN] **(cont.)**

**Envirosite ID:** 42994676  
**EPA ID:** N/R

## MANIFEST - MN (cont.)

Transporter 2 Address :	N/R
TSD EPA ID :	MNR000033597
TSD AI ID :	30092
TSD AI Name :	Como Lube & Supplies Inc
TSD Address :	1108 Port Terminal Rd, Duluth, MN 55802-2619
Generator Copy Received Date :	1998-09-01
Facility Copy Received Date :	1998-09-01
Comments :	N/R

## Materials Listed

Manifest Row :	1
Hazardous Material Name :	PETROLEUM NAPHTHA,COMBUS. LIQ.
Hazardous Class Number :	N/R
UN NA Number :	NA1993
Packing Group Number :	N/R
Container Quantity :	1
Container Code :	DMML
Waste Quantity :	18
Waste Units Code :	AD
Waste Code List :	D001
Waste Code Description :	IGNITABLE WASTE

## Shipment Details

Generator Ship Date :	1998-06-23
Transporter 1 Received Date :	1998-06-23
Transporter 2 Received Date :	N/R
TSD Received Date :	1998-06-23
Generator EPA ID :	MND985692557
Generator AI ID :	42034
Generator AI Name :	Lester Park Golf Course
Generator Address :	1860 Lester River Rd, Duluth, MN 55804
Transporter EPA ID :	MNR000033597
Transporter AI ID :	30092
Transporter AI Name :	Como Lube & Supplies Inc
Transporter Address :	1108 Port Terminal Rd, Duluth, MN 55802-2619
Transporter 2 ID :	N/R
Transporter 2 AI ID :	N/R
Transporter 2 AI Name :	N/R
Transporter 2 Address :	N/R
TSD EPA ID :	MNR000033597
TSD AI ID :	30092
TSD AI Name :	Como Lube & Supplies Inc
TSD Address :	1108 Port Terminal Rd, Duluth, MN 55802-2619
Generator Copy Received Date :	1998-06-26
Facility Copy Received Date :	1998-06-26



Map Id: 9  
 Direction: NNE  
 Distance: 0.355 mi., 1874 ft.  
 Elevation: 828 ft.  
 Relative: Higher

**Site Name :** LESTER PARK GOLF COURSE | DULUTH CITY OF - LESTER GOLF | LESTER PARK GOLF MANAGEMENT LLC  
 1860 LESTER RIVER RD  
 Duluth | DULUTH, MN

**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO, EPA LUST, EPA UST, ERNS, FRS, HIST LUST - MN, HIST TANK SITES - MN, HWG - MN, LUST - MN, MANIFEST - MN, MDA LIC - MN, RCRA\_NONGEN, UST - MN, WIMN - MN] **(cont.)**

**Envirosite ID:** 42994676  
**EPA ID:** N/R

## MANIFEST - MN (cont.)

Comments : N/R

### Materials Listed

Manifest Row :	1
Hazardous Material Name :	PETROLEUM NAPHTHA,COMBUS. LIQ.
Hazardous Class Number :	N/R
UN NA Number :	NA1993
Packing Group Number :	N/R
Container Quantity :	1
Container Code :	DMML
Waste Quantity :	20
Waste Units Code :	AD
Waste Code List :	D001
Waste Code Description :	IGNITABLE WASTE

### Shipment Details

Generator Ship Date :	1998-04-23
Transporter 1 Received Date :	1998-04-23
Transporter 2 Received Date :	N/R
TSD Received Date :	1998-04-23
Generator EPA ID :	MND985692557
Generator AI ID :	42034
Generator AI Name :	Lester Park Golf Course
Generator Address :	1860 Lester River Rd, Duluth, MN 55804
Transporter EPA ID :	MNR000033597
Transporter AI ID :	30092
Transporter AI Name :	Como Lube & Supplies Inc
Transporter Address :	1108 Port Terminal Rd, Duluth, MN 55802-2619
Transporter 2 ID :	N/R
Transporter 2 AI ID :	N/R
Transporter 2 AI Name :	N/R
Transporter 2 Address :	N/R
TSD EPA ID :	MNR000033597
TSD AI ID :	30092
TSD AI Name :	Como Lube & Supplies Inc
TSD Address :	1108 Port Terminal Rd, Duluth, MN 55802-2619
Generator Copy Received Date :	1998-04-29
Facility Copy Received Date :	1998-04-29
Comments :	N/R

### Materials Listed

Manifest Row :	1
Hazardous Material Name :	PETROLEUM NAPHTHA,COMBUS. LIQ.



Map Id: 9  
 Direction: NNE  
 Distance: 0.355 mi., 1874 ft.  
 Elevation: 828 ft.  
 Relative: Higher

**Site Name :** LESTER PARK GOLF COURSE | DULUTH CITY OF - LESTER GOLF | LESTER PARK GOLF MANAGEMENT LLC  
 1860 LESTER RIVER RD  
 Duluth | DULUTH, MN

**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO, EPA LUST, EPA UST, ERNS, FRS, HIST LUST - MN, HIST TANK SITES - MN, HWG - MN, LUST - MN, MANIFEST - MN, MDA LIC - MN, RCRA\_NONGEN, UST - MN, WIMN - MN] **(cont.)**

**Envirosite ID:** 42994676  
**EPA ID:** N/R

## MANIFEST - MN (cont.)

Hazardous Class Number :	N/R
UN NA Number :	NA1993
Packing Group Number :	N/R
Container Quantity :	1
Container Code :	DMML
Waste Quantity :	18
Waste Units Code :	AD
Waste Code List :	D001
Waste Code Description :	IGNITABLE WASTE

## Shipment Details

Generator Ship Date :	1997-10-24
Transporter 1 Received Date :	1997-10-24
Transporter 2 Received Date :	N/R
TSD Received Date :	1997-10-24
Generator EPA ID :	MND985692557
Generator AI ID :	42034
Generator AI Name :	Lester Park Golf Course
Generator Address :	1860 Lester River Rd, Duluth, MN 55804
Transporter EPA ID :	MNR000033597
Transporter AI ID :	30092
Transporter AI Name :	Como Lube & Supplies Inc
Transporter Address :	1108 Port Terminal Rd, Duluth, MN 55802-2619
Transporter 2 ID :	N/R
Transporter 2 AI ID :	N/R
Transporter 2 AI Name :	N/R
Transporter 2 Address :	N/R
TSD EPA ID :	MNR000033597
TSD AI ID :	30092
TSD AI Name :	Como Lube & Supplies Inc
TSD Address :	1108 Port Terminal Rd, Duluth, MN 55802-2619
Generator Copy Received Date :	1997-10-29
Facility Copy Received Date :	1997-10-29
Comments :	N/R

## Materials Listed

Manifest Row :	1
Hazardous Material Name :	PETROLEUM NAPHTHA,COMBUS. LIQ.
Hazardous Class Number :	N/R
UN NA Number :	NA1993
Packing Group Number :	N/R
Container Quantity :	1
Container Code :	DMML
Waste Quantity :	18
Waste Units Code :	AD



Map Id: 9  
 Direction: NNE  
 Distance: 0.355 mi., 1874 ft.  
 Elevation: 828 ft.  
 Relative: Higher

**Site Name :** LESTER PARK GOLF COURSE | DULUTH CITY OF - LESTER GOLF | LESTER PARK GOLF MANAGEMENT LLC  
 1860 LESTER RIVER RD  
 Duluth | DULUTH, MN

**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO, EPA LUST, EPA UST, ERNS, FRS, HIST LUST - MN, HIST TANK SITES - MN, HWG - MN, LUST - MN, MANIFEST - MN, MDA LIC - MN, RCRA\_NONGEN, UST - MN, WIMN - MN] **(cont.)**

**EnviroSite ID:** 42994676  
**EPA ID:** N/R

## MANIFEST - MN (cont.)

Waste Code List : D001  
 Waste Code Description : IGNITABLE WASTE

## Contact Details

Generator Contact Name : Jud Crist  
 Generator Contact Mailing Address : 1801 W Skyline Blvd, Duluth, MN 55806  
 Generator Contact Email : judcrist@aol.com  
 Generator Contact Number : 218-723-3453

## NAICS Code

Description : 713910 - Golf Courses and Country Clubs

## MDA LIC - MN

Facility Name : LESTER PARK GOLF MANAGEMENT LLC  
 Facility Address : 1860 LESTER RIVER RD, DULUTH, MN 55804  
 County : SAINT LOUIS

Expiration Date : 2018-12-31  
 License : 20112967  
 License Type : NON-COMMERCIAL PESTICIDE APPLICATOR  
 Relationship : EMPLOYER  
 County Code : 137  
 Phone Number : N/R  
 Last Date in Agency List : 2020-01-22

## RCRA\_NONGEN

Facility Name : DULUTH CITY OF - LESTER GOLF  
 Facility Address : 1860 LESTER RIVER RD, DULUTH, MN 55804-3030  
 County : ST LOUIS

Date Form Received by Agency : 1990-09-24  
 EPA ID : MND985692557  
 Mailing Address : 4825 MIKE COLALILLO DR, DULUTH, MN 55807  
 Contact : CHUCK FAEGRE  
 Contact Address : 215 N 1ST AVE E, DULUTH, MN 55802  
 Contact Country : US  
 Contact Telephone : 218-336-8700  
 Contact Email : N/R  
 EPA Region : 05  
 Land Type : Municipal  
 Source Type : Notification



Map Id: 9  
 Direction: NNE  
 Distance: 0.355 mi., 1874 ft.  
 Elevation: 828 ft.  
 Relative: Higher

**Site Name :** LESTER PARK GOLF COURSE | DULUTH CITY OF - LESTER GOLF | LESTER PARK GOLF MANAGEMENT LLC  
 1860 LESTER RIVER RD  
 Duluth | DULUTH, MN

**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO, EPA LUST, EPA UST, ERNS, FRS, HIST LUST - MN, HIST TANK SITES - MN, HWG - MN, LUST - MN, MANIFEST - MN, MDA LIC - MN, RCRA\_NONGEN, UST - MN, WIMN - MN] **(cont.)**

EnviroSite ID: 42994676  
 EPA ID: N/R

#### RCRA\_NONGEN (cont.)

Classification :	Not a generator, verified
Description :	Not a generator, verified
Last Date in Agency List :	2022-01-26

#### Owner/Operator Summary

Owner/Operator Name :	DULUTH CITY OF
Owner/Operator Address :	4825 MIKE COLALILLO DR, DULUTH, MN 55807
Owner/Operator Country :	US
Owner/Operator Telephone :	218-336-8700
Owner/Operator Email :	N/R
Owner/Operator Fax :	N/R
Legal Status :	Municipal
Owner/Operator Type :	Owner
Owner/Operator Start Date :	1999-06-15
Owner/Operator End Date :	N/R

#### Handler Activities Summary

U.S. Importer of Hazardous Waste :	N
Mixed Waste (Haz. and Radioactive) :	N
Recycler of Hazardous Waste :	N
Transporter of Hazardous Waste :	N
Treater, Storer or Disposer of HW :	N
Underground Injection Activity :	N
On-site Burner Exemption :	N
Furnace Exemption :	N
Used Oil Fuel Burner :	N
Used Oil Processor :	N
Used Oil Refiner :	N
Used Oil Fuel Marketer to Burner :	N
Used Oil Specification Marketer :	N
Used Oil Transfer Facility :	N
Used Oil Transporter :	N

#### Hazardous Waste Summary

Waste Code / Name :	D001 - IGNITABLE WASTE
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#### Notices of Violations Summary

Regulation Violated :	N
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Map Id: 9  
Direction: NNE  
Distance: 0.355 mi., 1874 ft.  
Elevation: 828 ft.  
Relative: Higher

**Site Name :** LESTER PARK GOLF COURSE | DULUTH  
CITY OF - LESTER GOLF | LESTER PARK  
GOLF MANAGEMENT LLC  
1860 LESTER RIVER RD  
Duluth | DULUTH, MN

**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO,  
EPA LUST, EPA UST, ERNS, FRS, HIST  
LUST - MN, HIST TANK SITES - MN, HWG -  
MN, LUST - MN, MANIFEST - MN, MDA LIC  
- MN, RCRA\_NONGEN, UST - MN, WIMN -  
MN] **(cont.)**

EnviroSite ID: 42994676  
EPA ID: N/R

## UST - MN

Facility Name :	Lester Park Golf Course
Facility Address :	1860 Lester River Rd, Duluth, MN 55804
County :	St. Louis
Item Compartment :	42034-EQUI0000000001-1
AI ID :	42034
Tank Site ID :	TS0005358
Item ID :	42034-EQUI0000000001
SI Type :	Underground Storage Tank System
SI Designation :	2
SI Description :	0 gal/Gasoline/Removed
Compartment Number :	1
Capacity (Gallon) :	0
Substance :	Gasoline
Tank Wall Type :	Single
Tank Material :	Other
Overfill Prevention System :	UST Not needed
Installation Date :	N/R
Last Update :	1990-04-24
Tank Status :	Removed
Tank Contractor :	N/R
Owner Name :	Enger Golf Course
Owner Address :	1801 W Skyline Blvd
Programs :	UT
Cathodic Protection System :	Not needed
Tank Leak Detection :	UST Not needed
Special Use Description :	None
Vapor Recovery :	N
Coord Collection Method :	Address Matching House Number
Pipe Wall :	Single
Pipe Material :	Other
Location Description :	N/R
Pipe Leak Detection :	NONE
Pipe Corrosion Protection :	None
Latitude :	46.857975
Longitude :	-91.999024
Tank URL :	<a href="#">Click here for hyperlink provided by the agency.</a>
Last Date in Agency List :	2022-03-23

Item Compartment :	42034-EQUI0000000002-1
AI ID :	42034
Tank Site ID :	TS0005358
Item ID :	42034-EQUI0000000002
SI Type :	Underground Storage Tank System
SI Designation :	1
SI Description :	350 gal/Gasoline/Removed
Compartment Number :	1



Map Id: 9  
 Direction: NNE  
 Distance: 0.355 mi., 1874 ft.  
 Elevation: 828 ft.  
 Relative: Higher

**Site Name :** LESTER PARK GOLF COURSE | DULUTH CITY OF - LESTER GOLF | LESTER PARK GOLF MANAGEMENT LLC  
 1860 LESTER RIVER RD  
 Duluth | DULUTH, MN

**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO, EPA LUST, EPA UST, ERNS, FRS, HIST LUST - MN, HIST TANK SITES - MN, HWG - MN, LUST - MN, MANIFEST - MN, MDA LIC - MN, RCRA\_NONGEN, UST - MN, WIMN - MN] **(cont.)**

Envirosite ID: 42994676  
 EPA ID: N/R

#### UST - MN (cont.)

Capacity (Gallon) :	350
Substance :	Gasoline
Tank Wall Type :	Single
Tank Material :	Bare/Paint/Asph Coat Steel
Overfill Prevention System :	UST Not needed
Installation Date :	1975-06-01
Last Update :	1990-04-24
Tank Status :	Removed
Tank Contractor :	N/R
Owner Name :	Enger Golf Course
Owner Address :	1801 W Skyline Blvd
Programs :	UT
Cathodic Protection System :	Not needed
Tank Leak Detection :	UST Not needed
Special Use Description :	None
Vapor Recovery :	N
Coord Collection Method :	Address Matching House Number
Pipe Wall :	Single
Pipe Material :	Steel/Iron
Location Description :	N/R
Pipe Leak Detection :	SSP
Pipe Corrosion Protection :	None
Latitude :	46.857975
Longitude :	-91.999024
Tank URL :	<a href="#">Click here for hyperlink provided by the agency.</a>
Last Date in Agency List :	2022-03-23

#### WIMN - MN

Facility Name :	Lester Park Golf Course
Facility Address :	1860 Lester River Rd, Duluth, MN 55804
County :	St. Louis

#### Site Details

Site ID :	42034
Activity Subtype Name :	N/R
Institutional Control :	No
Watershed :	Lake Superior - South
Agency Hyperlink :	<a href="#">Click here for hyperlink provided by the agency.</a>
Latitude :	46.8616386
Longitude :	-91.996816
Coordinate Collection Method :	Address Matching House Number
Last Date in Agency List :	2022-02-09

Site ID :	42034
Activity Subtype Name :	Leak Site



Map Id: 9  
Direction: NNE  
Distance: 0.355 mi., 1874 ft.  
Elevation: 828 ft.  
Relative: Higher

**Site Name :** LESTER PARK GOLF COURSE | DULUTH CITY OF - LESTER GOLF | LESTER PARK GOLF MANAGEMENT LLC  
1860 LESTER RIVER RD  
Duluth | DULUTH, MN

**Database(s) :** [AG\_LICENSES - MN, AST - MN, ECHO, EPA LUST, EPA UST, ERNS, FRS, HIST LUST - MN, HIST TANK SITES - MN, HWG - MN, LUST - MN, MANIFEST - MN, MDA LIC - MN, RCRA\_NONGEN, UST - MN, WIMN - MN] **(cont.)**

EnviroSite ID: 42994676  
EPA ID: N/R

#### WIMN - MN (cont.)

Institutional Control :	No
Watershed :	Lake Superior - South
Agency Hyperlink :	<a href="#">Click here for hyperlink provided by the agency.</a>
Latitude :	46.8616386
Longitude :	-91.996816
Coordinate Collection Method :	Address Matching House Number
Last Date in Agency List :	2022-02-09

#### Activity Details

Program Name :	Investigation and Cleanup
Activity Type :	Petroleum Remediation
Activity ID :	LS0002536
Industrial Classification :	Golf Courses and Country Clubs
Active :	No

Program Name :	Tanks
Activity Type :	Aboveground Tanks
Activity ID :	TS0005358
Industrial Classification :	Golf Courses and Country Clubs
Active :	Yes

Program Name :	Tanks
Activity Type :	Underground Tanks
Activity ID :	TS0005358
Industrial Classification :	Golf Courses and Country Clubs
Active :	Yes

#### Owner Details

Owner Name :	Enger Golf Course
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Map Id: C10  
 Direction: WSW  
 Distance: 0.371 mi., 1958 ft.  
 Elevation: 691 ft.  
 Relative: Lower

**Site Name :** Brunelle Residence  
 5805 Oneida Ave  
 Duluth, MN 55804  
**Database(s) :** [LUST - MN]

**EnviroSite ID:** 3506175  
**EPA ID:** N/R

LUST - MN

**Facility Name :** Brunelle Residence  
**Facility Address :** 5805 Oneida Ave, Duluth, MN 55804  
**County :** St. Louis

## Site Details

**Item ID :** 214403-AREA0000000001  
**Site ID :** LS0020273  
**Site Type :** Leak Site  
**AI ID :** 214403  
**AI Name :** Brunelle Residence  
**Acreage :** N/R  
**Hydro :** Adam Sekely (former)  
**Project Manager :** Amy Jendro (former)  
**Status :** Closed  
**Listed on the NPL? :** No  
**Listed on the PLP? :** No  
**A petroleum brownfield? :** No  
**A non-petroleum brownfield? :** No  
**Listed on EPA's CERCLIS/SEMS list? :** No  
**An unpermitted dump? :** No  
**Are there institutional controls? :** No  
**Hazard Ranking System Score :** N/R  
**Year for the HRS Score :** N/R  
**Congressional District :** 8  
**House District :** 7A  
**Senate District :** 7  
**HUC8 ID :** 04010102  
**HUC8 Name :** Lake Superior - South  
**HUC10 ID :** 0401010204  
**HUC12 ID :** 040101020405  
**HUC12 Name :** City of Duluth-Frontal Lake Superior  
**DW SMA Code :** N/R  
**DW SMA Name :** N/R  
**Fed Regulated :** No  
**Fed State Regulated :** No  
**State Regulated :** No  
**Not Regulated :** Yes  
**SF Voluntary :** No  
**Coordinate Collection Method :** Digitized - MPCA internal map  
**Location Description :** N/R  
**Latitude :** 46.839841  
**Longitude :** -92.011806  
**WIMN Link :** [Click here for hyperlink provided by the agency.](#)  
**Last Date in Agency List :** 2022-03-16

## Activity Details

**Activity ID :** SIW20160001  
**Activity Description :** Leak Site Investigation  
**Activity Class :** SIW  
**Activity Year :** 2016  
**Activity Number :** 1  
**Site Closed :** 2017-12-22  
**Site Start Date :** 2016-11-23



Map Id: C10  
 Direction: WSW  
 Distance: 0.371 mi., 1958 ft.  
 Elevation: 691 ft.  
 Relative: Lower

**Site Name :** Brunelle Residence  
 5805 Oneida Ave  
 Duluth, MN 55804  
**Database(s) :** [LUST - MN] (**cont.**)

**EnviroSite ID:** 3506175  
**EPA ID:** N/R

## LUST - MN (**cont.**)

Site Discover Date :	N/R
Leak Discovered :	2016-11-23
Leak Reported :	2016-11-23
Leak Reopened Date :	N/R
Date Received :	N/R
Site Listed on PLP :	N/R
Site Delisted from PLP :	N/R
Site Listed on NPL :	N/R
Site Deleted from NPL :	N/R
Fund Finance Approved :	N/R
Fund Finance Closed :	N/R
Assessment Completed :	N/R
Investigation Completed :	N/R
No Further Action Decision :	N/R
Remedy Implemented :	N/R
Remedy Selected :	N/R
Staff Assign Date :	N/R
App Completed Date :	N/R
ER Site Eval Date :	N/R

Map Id: C11  
 Direction: WSW  
 Distance: 0.371 mi., 1958 ft.  
 Elevation: 691 ft.  
 Relative: Lower

**Site Name :** Brunelle Residence  
 5805 Oneida St  
 Duluth, MN 55804  
**Database(s) :** [MPCA SITE ASSESSMENT - MN, WIMN - MN]

**EnviroSite ID:** 3602670  
**EPA ID:** N/R

## MPCA SITE ASSESSMENT - MN

Facility Name :	Brunelle Residence
Facility Address :	5805 Oneida Street, Duluth
County :	St. Louis

## Site Details

Item ID :	214403-AREA0000000002
Site ID :	SA0000406
Site Type :	Site Assessment Site
AI ID :	214403
AI Name :	Brunelle Residence
Acreage :	0.32
Hydro :	N/R
Project Manager :	Doree Husnik (former)
Status :	Closed
Listed on the NPL? :	No
Listed on the PLP? :	No
A petroleum brownfield? :	No
A non-petroleum brownfield? :	No
Listed on EPA's CERCLIS/SEMS list? :	No
An unpermitted dump? :	No



Map Id: C11  
 Direction: WSW  
 Distance: 0.371 mi., 1958 ft.  
 Elevation: 691 ft.  
 Relative: Lower

**Site Name :** Brunelle Residence  
 5805 Oneida St  
 Duluth, MN 55804  
**Database(s) :** [MPCA SITE ASSESSMENT - MN, WIMN - MN] (**cont.**)

**Envirosite ID:** 3602670  
**EPA ID:** N/R

## MPCA SITE ASSESSMENT - MN (**cont.**)

Are there institutional controls? :	No
Hazard Ranking System Score :	N/R
Year for the HRS Score :	N/R
Congressional District :	8
House District :	7A
Senate District :	7
HUC8 ID :	04010102
HUC8 Name :	Lake Superior - South
HUC10 ID :	0401010204
HUC12 ID :	040101020405
HUC12 Name :	City of Duluth-Frontal Lake Superior
DW SMA Code :	N/R
DW SMA Name :	N/R
Fed Regulated :	No
Fed State Regulated :	No
State Regulated :	No
Not Regulated :	No
SF Voluntary :	No
Coordinate Collection Method :	Digitized - MPCA internal map
Location Description :	N/R
Latitude :	46.839841
Longitude :	-92.011806
WIMN Link :	<a href="#">Click here for hyperlink provided by the agency.</a>
Last Date in Agency List :	2022-03-14

## Activity Details

Activity ID :	SIW20180001
Activity Description :	Site Assessment Investigation
Activity Class :	SIW
Activity Year :	2018
Activity Number :	1
Site Closed :	2018-06-28
Site Start Date :	2018-05-18
Site Discover Date :	N/R
Leak Discovered :	N/R
Leak Reported :	N/R
Leak Reopened Date :	N/R
Date Received :	2018-05-18
Site Listed on PLP :	N/R
Site Delisted from PLP :	N/R
Site Listed on NPL :	N/R
Site Deleted from NPL :	N/R
Fund Finance Approved :	N/R
Fund Finance Closed :	N/R
Assessment Completed :	2018-10-15
Investigation Completed :	N/R
No Further Action Decision :	N/R
Remedy Implemented :	N/R
Remedy Selected :	N/R
Staff Assign Date :	N/R
App Completed Date :	N/R
ER Site Eval Date :	N/R



Map Id: C11  
 Direction: WSW  
 Distance: 0.371 mi., 1958 ft.  
 Elevation: 691 ft.  
 Relative: Lower

**Site Name :** Brunelle Residence  
 5805 Oneida St  
 Duluth, MN 55804  
**Database(s) :** [MPCA SITE ASSESSMENT - MN, WIMN - MN] (**cont.**)

**EnviroSite ID:** 3602670  
**EPA ID:** N/R

## WIMN - MN

Facility Name : Brunelle Residence  
 Facility Address : 5805 Oneida St, Duluth, MN 55804  
 County : St. Louis

### Site Details

Site ID : 214403  
 Activity Subtype Name : N/R  
 Institutional Control : No  
 Watershed : Lake Superior - South  
 Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)  
 Latitude : 46.83984066  
 Longitude : -92.01180618  
 Coordinate Collection Method : Digitized - MPCA internal map  
 Last Date in Agency List : 2022-02-09

Site ID : 214403  
 Activity Subtype Name : Leak Site  
 Institutional Control : No  
 Watershed : Lake Superior - South  
 Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)  
 Latitude : 46.83984066  
 Longitude : -92.01180618  
 Coordinate Collection Method : Digitized - MPCA internal map  
 Last Date in Agency List : 2022-02-09

### Activity Details

Program Name : Investigation and Cleanup  
 Activity Type : Site Assessment  
 Activity ID : SA0000406  
 Industrial Classification : N/R  
 Active : No

Program Name : Investigation and Cleanup  
 Activity Type : Petroleum Remediation  
 Activity ID : LS0020273  
 Industrial Classification : N/R  
 Active : No

### Owner Details

Owner Name : N/R



Map Id: B12  
 Direction: WSW  
 Distance: 0.372 mi., 1964 ft.  
 Elevation: 657 ft.  
 Relative: Lower

**Site Name :** LAKESIDE SUPER ONE FOODS | SUPER ONE LAKESIDE - DULUTH | MINERS INC DBA SUPER ONE # 455  
 5928 E SUPERIOR ST | 5928 EAST SUPERIOR ST  
 DULUTH | Duluth, MN  
**Database(s) :** [EPA LUST, HIST LUST - MN, LUST - MN, WIMN - MN]

**Envirosite ID:** 3454006  
**EPA ID:** N/R

## EPA LUST

**Facility Name :** Lakeside Super One Foods  
**Facility Address :** 5928 E Superior St, Duluth, Minnesota 55804  
**County :** St. Louis

**Facility ID :** MN191569  
**LUST ID :** MNLS0016874  
**Reported Date :** 2007-05-24  
**Status :** No Further Action  
**Substance :** N/R  
**Closed With Residual Contamination (Tribal Only):** N/R  
**NFA\_Letter (Tribal Only) :** N/R  
**Tribe (Tribal Only) :** N/R  
**EPA Region :** 5  
**Estimated Population within 1500ft :** 764  
**Estimated Private Domestic Wells within 1500ft:** 1  
**Within Source Water Protection Area (SPA):** No  
**SPA Public Water System and Facility ID:** N/R  
**SPA Water Type :** N/R  
**SPA Facility Type :** N/R  
**SPA HUC12 :** N/R  
**Within Groundwater Wellhead Protection Area (WHPA):** No  
**WHPA Public Water System and Facility ID:** N/R  
**WHPA Water Type :** N/R  
**WHPA Facility Type :** N/R  
**WHPA HUC12 :** N/R  
**Within Estimated 100-year Floodplain:** No  
**Latitude :** 46.83769  
**Longitude :** -92.01077999999999  
**Last Date in Agency List :** 2022-04-22

## HIST LUST - MN

**Facility Name :** Lakeside Super One Foods  
**Facility Address :** 5928 E Superior St, Duluth, MN 55804

## Site Details

**Interest Start Date :** 2007-06-28  
**Interest End Date :** 2014-09-08 10:38  
**Interest Phone :** NO CORE PI PH.  
**Interest Type :** Leak Site  
**TMSP Last Update :** 2014-11-10 08:17  
**TMSP Added :** 2007-06-28 08:10  
**Program ID :** 436980  
**Site ID :** 270255  
**Preferred ID :** 16874



Map Id: B12  
 Direction: WSW  
 Distance: 0.372 mi., 1964 ft.  
 Elevation: 657 ft.  
 Relative: Lower

**Site Name :** LAKESIDE SUPER ONE FOODS | SUPER  
 ONE LAKESIDE - DULUTH | MINERS INC  
 DBA SUPER ONE # 455  
 5928 E SUPERIOR ST | 5928 EAST  
 SUPERIOR ST  
 DULUTH | Duluth, MN  
**Database(s) :** [EPA LUST, HIST LUST - MN, LUST - MN,  
 WIMN - MN] **(cont.)**

**EnviroSite ID:** 3454006  
**EPA ID:** N/R

#### HIST LUST - MN **(cont.)**

Address ID : 300332  
 Township Name : N/R  
 Staff ID Last Update : RGAGLE  
 Source : CORE  
 Active Flag : N  
 Comments : N/R  
 Last Date in Agency List : 2017-10-11

#### Leak Site Summary

Release Discovered Date : 2007-05-24  
 Leak Report Date : 2007-05-24  
 Enforcement Action Begin Date : 2007-07-01  
 Complete Site Closure Date : 2009-10-30  
 TMSP Last Update : 2009-11-25 14:24  
 TMSP Added : 2007-06-28 08:41  
 Leak Site Type Code : Leak site (tank and petroleum contamination).  
 Staff ID Last Update : KMUSTON  
 File Archive Box : N/R  
 File Archive Lot : N/R  
 CU YDS Excavated Quantity : N/R  
 Soil Dig Out Date : N/R  
 STD Letter Response Date : 2007-07-31  
 COND Closure Date : N/R  
 LUST Trust Eligible Flag : N  
 REIMB Awarded Flag : N  
 Utility Project Flag : N  
 Tank REG Status Code : Federal  
 Sub Slab Sample Collected Flag : N  
 Indoor Air Collected Flag : N  
 Contaminated Soils Remaining Flag : Y  
 Surface Water Impact Flag : N  
 Offsite Contamination Flag : N  
 Residence Type Code : N/R  
 Release from AST Flag : N  
 Release from UST Flag : Y  
 Vapor Intrusion Checked Application  
 Date: N/R  
 Vapor Intrusion Checked Acres : N/R  
 Vapor Intrusion Checked Flag : Y  
 Vapor Intrusion Action Flag : N

Vapor Intrusion Comments : The vapor plume appears to be limited to the site property - which is a vacant lot.

Soil Gas Data Collected Flag : Y  
 Soil Gas Action Level Flag : Y  
 Soil Gas Data Comments : N/R



Map Id: B12  
 Direction: WSW  
 Distance: 0.372 mi., 1964 ft.  
 Elevation: 657 ft.  
 Relative: Lower

**Site Name :** LAKESIDE SUPER ONE FOODS | SUPER  
 ONE LAKESIDE - DULUTH | MINERS INC  
 DBA SUPER ONE # 455  
 5928 E SUPERIOR ST | 5928 EAST  
 SUPERIOR ST  
 DULUTH | Duluth, MN  
**Database(s) :** [EPA LUST, HIST LUST - MN, LUST - MN,  
 WIMN - MN] **(cont.)**

Envirosite ID: 3454006  
 EPA ID: N/R

## LUST - MN

Facility Name : Lakeside Super One Foods  
 Facility Address : 5928 E Superior St, Duluth, MN 55804  
 County : St. Louis

## Site Details

Item ID : 191569-AREA0000000001  
 Site ID : LS0016874  
 Site Type : Leak Site  
 AI ID : 191569  
 AI Name : Lakeside Super One Foods  
 Acreage : N/R  
 Hydro : Kevin Mustonen (former)  
 Project Manager : Amy Jendro (former)  
 Status : Closed  
 Listed on the NPL? : No  
 Listed on the PLP? : No  
 A petroleum brownfield? : No  
 A non-petroleum brownfield? : No  
 Listed on EPA's CERCLIS/SEMS list? : No  
 An unpermitted dump? : No  
 Are there institutional controls? : No  
 Hazard Ranking System Score : N/R  
 Year for the HRS Score : N/R  
 Congressional District : 8  
 House District : 7A  
 Senate District : 7  
 HUC8 ID : 04010102  
 HUC8 Name : Lake Superior - South  
 HUC10 ID : 0401010204  
 HUC12 ID : 040101020405  
 HUC12 Name : City of Duluth-Frontal Lake Superior  
 DW SMA Code : N/R  
 DW SMA Name : N/R  
 Fed Regulated : Yes  
 Fed State Regulated : No  
 State Regulated : No  
 Not Regulated : No  
 SF Voluntary : No  
 Coordinate Collection Method : Digitized - MPCA internal map  
 Location Description : N/R  
 Latitude : 46.83769  
 Longitude : -92.010784  
 WIMN Link : [Click here for hyperlink provided by the agency.](#)  
 Last Date in Agency List : 2022-03-16

## Activity Details

Activity ID : SIW20070001  
 Activity Description : Leak Site Investigation  
 Activity Class : SIW



Map Id: B12  
Direction: WSW  
Distance: 0.372 mi., 1964 ft.  
Elevation: 657 ft.  
Relative: Lower

**Site Name :** LAKESIDE SUPER ONE FOODS | SUPER  
ONE LAKESIDE - DULUTH | MINERS INC  
DBA SUPER ONE # 455  
5928 E SUPERIOR ST | 5928 EAST  
SUPERIOR ST  
DULUTH | Duluth, MN  
**Database(s) :** [EPA LUST, HIST LUST - MN, LUST - MN,  
WIMN - MN] **(cont.)**

EnviroSite ID: 3454006  
EPA ID: N/R

#### LUST - MN **(cont.)**

Activity Year :	2007
Activity Number :	1
Site Closed :	2009-10-30
Site Start Date :	2007-05-24
Site Discover Date :	N/R
Leak Discovered :	2007-05-24
Leak Reported :	2007-05-24
Leak Reopened Date :	N/R
Date Received :	N/R
Site Listed on PLP :	N/R
Site Delisted from PLP :	N/R
Site Listed on NPL :	N/R
Site Deleted from NPL :	N/R
Fund Finance Approved :	N/R
Fund Finance Closed :	N/R
Assessment Completed :	N/R
Investigation Completed :	N/R
No Further Action Decision :	N/R
Remedy Implemented :	N/R
Remedy Selected :	N/R
Staff Assign Date :	N/R
App Completed Date :	N/R
ER Site Eval Date :	N/R

#### WIMN - MN

Facility Name :	Lakeside Super One Foods
Facility Address :	5928 E Superior St, Duluth, MN 55804
County :	St. Louis

#### Site Details

Site ID :	191569
Activity Subtype Name :	Leak Site
Institutional Control :	No
Watershed :	Lake Superior - South
Agency Hyperlink :	<a href="#">Click here for hyperlink provided by the agency.</a>
Latitude :	46.8376903
Longitude :	-92.0107835
Coordinate Collection Method :	Digitized - MPCA internal map
Last Date in Agency List :	2022-02-09

#### Activity Details

Program Name :	Investigation and Cleanup
Activity Type :	Petroleum Remediation
Activity ID :	LS0016874
Industrial Classification :	N/R
Active :	No



Map Id: B12  
 Direction: WSW  
 Distance: 0.372 mi., 1964 ft.  
 Elevation: 657 ft.  
 Relative: Lower

**Site Name :** LAKESIDE SUPER ONE FOODS | SUPER ONE LAKESIDE - DULUTH | MINERS INC DBA SUPER ONE # 455  
 5928 E SUPERIOR ST | 5928 EAST SUPERIOR ST  
 DULUTH | Duluth, MN  
**Database(s) :** [EPA LUST, HIST LUST - MN, LUST - MN, WIMN - MN] **(cont.)**

**EnviroSite ID:** 3454006  
**EPA ID:** N/R

WIMN - MN **(cont.)**

Owner Details  
 Owner Name : Southgate Enterprises

Map Id: 13  
 Direction: W  
 Distance: 0.493 mi., 2602 ft.  
 Elevation: 756 ft.  
 Relative: Higher

**Site Name :** MELISSA J RESCH  
 5414 AVONDALE ST  
 DULUTH | Duluth, MN 55804  
**Database(s) :** [WIMN - MN]

**EnviroSite ID:** 3576575  
**EPA ID:** N/R

WIMN - MN

Facility Name : Melissa J Resch  
 Facility Address : 5414 Avondale St, Duluth, MN 55804  
 County : St. Louis

## Site Details

Site ID : 206051  
 Activity Subtype Name : Certified Person  
 Institutional Control : No  
 Watershed : N/R  
 Agency Hyperlink : [Click here for hyperlink provided by the agency.](#)  
 Latitude : N/R  
 Longitude : N/R  
 Coordinate Collection Method : N/R  
 Last Date in Agency List : 2022-02-09

## Activity Details

Program Name : SSTS  
 Activity Type : SSTS  
 Activity ID : C8349  
 Industrial Classification : N/R  
 Active : Yes

## Owner Details

Owner Name : N/R



<u>ENVIROSITE ID</u>	<u>NAME</u>	<u>ADDRESS</u>	<u>CITY</u>	<u>ZIP</u>	<u>DATABASE(S)</u>
<u>12158192</u>	Lakewood Express Short St...	Highway 61 S	Duluth	55804	TALES - MN



**FEDERAL RCRA NON-CORRACTS TSD FACILITIES LIST**

ARCHIVED RCRA TSD: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Agency Version Date: 12/30/2021  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/22/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 215-814-2469  
Most Recent Contact: 03/28/2022

RCRA\_TSD: Resource Conservation and Recovery Act hazardous waste transportation storage disposal and treatment facilities

Agency Version Date: 12/30/2021  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/22/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 215-814-2469  
Most Recent Contact: 03/28/2022

**FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS**

AST PBS: Bulk petroleum terminals with a total bulk storage capacity of 50,000 barrels or more.

Agency Version Date: 02/22/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/20/2022

Agency: Department of Homeland Security  
Agency Contact: 202-853-5361  
Most Recent Contact: 02/22/2022

EPA UST: Facilities listed in the EPA UST Finder database

Agency Version Date: 02/15/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/12/2022

Agency: EPA  
Agency Contact: (202) 566-1667  
Most Recent Contact: 02/15/2022

FEMA UST: FEMA underground storage tank listing

Agency Version Date: 10/08/2021  
Agency Update Frequency: Varies  
Planned Next Contact: 06/27/2022

Agency: FEMA  
Agency Contact: 202-212-5283  
Most Recent Contact: 04/01/2022

HIST INDIAN UST R6: Historical Underground Storage Tanks on Indian Land in EPA Region 6

Agency Version Date: 12/03/2021  
Agency Update Frequency: Semi Annually  
Planned Next Contact: 05/27/2022

Agency: U.S. Environmental Protection Agency Region 6  
Agency Contact: 855-246-3642  
Most Recent Contact: 03/01/2022

HIST INDIAN UST R7: Historical Underground Storage Tanks on Indian Land in EPA Region 7

Agency Version Date: 08/10/2021  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/12/2022

Agency: U.S. Environmental Protection Agency Region 7  
Agency Contact: 855-246-3642  
Most Recent Contact: 02/15/2022

INDIAN UST R1: Underground Storage Tanks on Indian Land in EPA Region 1

Agency Version Date: 04/15/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 07/14/2022

Agency: U.S. Environmental Protection Agency Region 1  
Agency Contact: 855-246-3642  
Most Recent Contact: 04/15/2022

INDIAN UST R10: Underground Storage Tanks on Indian Land in EPA Region 10

Agency Version Date: 02/14/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/12/2022

Agency: U.S. Environmental Protection Agency Region 10  
Agency Contact: 855-246-3642  
Most Recent Contact: 02/14/2022



## FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS (cont.)

### INDIAN UST R2: Underground Storage Tanks on Indian Land in EPA Region 2

Agency Version Date: 12/07/2016  
Agency Update Frequency: Quarterly  
Planned Next Contact: 07/15/2022

Agency: U.S. Environmental Protection Agency Region 2  
Agency Contact: 855-246-3642  
Most Recent Contact: 04/19/2022

### INDIAN UST R4: Underground Storage Tanks on Indian Land in EPA Region 4

Agency Version Date: 02/14/2022  
Agency Update Frequency: Semi Annually  
Planned Next Contact: 05/12/2022

Agency: U.S. Environmental Protection Agency Region 4  
Agency Contact: 855-246-3642  
Most Recent Contact: 02/14/2022

### INDIAN UST R5: Underground Storage Tanks on Indian Land in EPA Region 5

Agency Version Date: 01/31/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 04/28/2022

Agency: U.S. Environmental Protection Agency Region 5  
Agency Contact: 855-246-3642  
Most Recent Contact: 01/31/2022

### INDIAN UST R6: Underground Storage Tanks on Indian Land in EPA Region 6

Agency Version Date: 03/01/2022  
Agency Update Frequency: Semi Annually  
Planned Next Contact: 05/27/2022

Agency: U.S. Environmental Protection Agency Region 6  
Agency Contact: 855-246-3642  
Most Recent Contact: 03/01/2022

### INDIAN UST R7: Underground Storage Tanks on Indian Land in EPA Region 7

Agency Version Date: 01/31/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 04/28/2022

Agency: U.S. Environmental Protection Agency Region 7  
Agency Contact: 855-246-3642  
Most Recent Contact: 01/31/2022

### INDIAN UST R8: Underground Storage Tanks on Indian Land in EPA Region 8

Agency Version Date: 01/17/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 07/11/2022

Agency: U.S. Environmental Protection Agency Region 8  
Agency Contact: 855-246-3642  
Most Recent Contact: 04/14/2022

### INDIAN UST R9: Underground Storage Tanks on Indian Land in EPA Region 9

Agency Version Date: 01/17/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 07/11/2022

Agency: U.S. Environmental Protection Agency Region 9  
Agency Contact: 855-246-3642  
Most Recent Contact: 04/14/2022

### AST - MN: Aboveground storage tank listing

Agency Version Date: 03/10/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 06/06/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 03/10/2022

### HIST AST - MN: List of aboveground storage tank that are no longer in current agency list.

Agency Version Date: 07/11/2017  
Agency Update Frequency: Annually  
Planned Next Contact: 05/06/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 02/08/2022

### HIST TANK SITES - MN: Historical Storage Tank listing.

Agency Version Date: 10/11/2017  
Agency Update Frequency: No Longer Maintained  
Planned Next Contact: 05/31/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 03/03/2022



**FEDERAL, STATE, AND TRIBAL REGISTERED STORAGE TANK LISTS (cont.)**

HIST UST - MN: List of underground storage tank that are no longer in current agency list.

Agency Version Date: 07/19/2018  
Agency Update Frequency: Bi-Annually  
Planned Next Contact: 07/11/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 04/13/2022

UST - MN: Underground storage tank listing

Agency Version Date: 03/10/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 06/06/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 03/10/2022

**FEDERAL CERCLIS LIST**

CERCLIS NFRAP: The CERCLIS sites with No Further Remedial Action Planned from the CERCLIS program database. The Environmental Protection Agency decommissioned the CERCLIS data in 2014. The last update was November 12, 2013.

Agency Version Date: 01/28/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 800-424-9346  
Most Recent Contact: 01/28/2022

CERCLIS-HIST: The CERCLIS program database contains information on the assessment and remediation of federal hazardous waste sites. The Environmental Protection Agency decommissioned the CERCLIS data in 2014. The last update was November 12, 2013.

Agency Version Date: 01/28/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 800-424-9346  
Most Recent Contact: 01/28/2022

EPA SAA: Listing of Sites with Superfund Alternative Approach Agreements.

Agency Version Date: 11/01/2021  
Agency Update Frequency: Quarterly  
Planned Next Contact: 07/21/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 800-424-9346  
Most Recent Contact: 04/25/2022

FEDERAL FACILITY: Sites where Federal Facilities Restoration and Reuse Office (FFRRO) arranged cleanup for Base Closure and Property Transfer at Federal Facilities

Agency Version Date: 01/28/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8712  
Most Recent Contact: 01/28/2022

SEMS\_8R\_ACTIVE SITES: 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. NPL sites include latitude and longitude information. For non-NPL sites, a brief site status is provided.

Agency Version Date: 01/28/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 01/28/2022

SEMS\_8R\_ARCHIVED SITES: The 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.

Agency Version Date: 01/28/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 01/28/2022



**FEDERAL RCRA CORRACTS FACILITIES LIST**

CORRACTS: List of facilities where Resource Conservation and Recovery Act Corrective Action Program used to investigate and remediate hazardous releases

Agency Version Date: 12/30/2021  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/22/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 202-566-1667  
Most Recent Contact: 03/28/2022

HIST CORRACTS 2: List of facilities where Resource Conservation and Recovery Act Corrective Action Program used to investigate and remediate hazardous releases that are no longer in current agency list.

Agency Version Date: 10/12/2018  
Agency Update Frequency: Annually  
Planned Next Contact: 05/23/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 202-566-1667  
Most Recent Contact: 02/24/2022

**FEDERAL DELISTED NPL SITE LIST**

DELISTED NPL: National Priority List of sites that were delisted and no longer require action

Agency Version Date: 01/28/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 01/28/2022

DELISTED PROPOSED NPL: Sites that have been delisted from the proposed National Priority List

Agency Version Date: 01/28/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 01/28/2022

SEMS\_DELETED NPL: All Deleted National Priority List Sties

Agency Version Date: 01/28/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 01/28/2022

**FEDERAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS**

EPA LF MOP: Sites in the EPA Landfill Methane Outreach Program

Agency Version Date: 03/25/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/21/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 03/25/2022

**FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS**

EPA LUST: Releases listed in the EPA UST Finder database

Agency Version Date: 02/15/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/12/2022

Agency: EPA  
Agency Contact: (202) 566-1667  
Most Recent Contact: 02/15/2022

HIST INDIAN LUST R4: Historical Leaking Underground Storage Tanks on Indian Land in EPA Region 4

Agency Version Date: 08/23/2021  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/12/2022

Agency: U.S. Environmental Protection Agency Region 4  
Agency Contact: 855-246-3642  
Most Recent Contact: 02/15/2022



**FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)****HIST INDIAN LUST R8: Historical Leaking Underground Storage Tanks on Indian Land in EPA Region 8**

Agency Version Date: 08/16/2021  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/04/2022

Agency: U.S. Environmental Protection Agency Region 8  
Agency Contact: 855-246-3642  
Most Recent Contact: 02/07/2022

**INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land in EPA Region 1**

Agency Version Date: 10/21/2021  
Agency Update Frequency: Quarterly  
Planned Next Contact: 07/14/2022

Agency: U.S. Environmental Protection Agency Region 1  
Agency Contact: 855-246-3642  
Most Recent Contact: 04/15/2022

**INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land in EPA Region 10**

Agency Version Date: 02/14/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/12/2022

Agency: U.S. Environmental Protection Agency Region 10  
Agency Contact: 855-246-3642  
Most Recent Contact: 02/14/2022

**INDIAN LUST R2: Leaking Underground Storage Tanks on Indian Land in EPA Region 2**

Agency Version Date: 12/07/2016  
Agency Update Frequency: Quarterly  
Planned Next Contact: 07/15/2022

Agency: U.S. Environmental Protection Agency Region 2  
Agency Contact: 855-246-3642  
Most Recent Contact: 04/19/2022

**INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land in EPA Region 4**

Agency Version Date: 02/14/2022  
Agency Update Frequency: Semi Annually  
Planned Next Contact: 05/12/2022

Agency: U.S. Environmental Protection Agency Region 4  
Agency Contact: 855-246-3642  
Most Recent Contact: 02/14/2022

**INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land in EPA Region 5**

Agency Version Date: 01/31/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 04/28/2022

Agency: U.S. Environmental Protection Agency Region 5  
Agency Contact: 855-246-3642  
Most Recent Contact: 01/31/2022

**INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land in EPA Region 6**

Agency Version Date: 02/03/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/02/2022

Agency: U.S. Environmental Protection Agency Region 6  
Agency Contact: 855-246-3642  
Most Recent Contact: 02/03/2022

**INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land in EPA Region 7**

Agency Version Date: 08/10/2021  
Agency Update Frequency: Varies  
Planned Next Contact: 04/28/2022

Agency: U.S. Environmental Protection Agency Region 7  
Agency Contact: 855-246-3642  
Most Recent Contact: 01/31/2022

**INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land in EPA Region 8**

Agency Version Date: 02/04/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/03/2022

Agency: U.S. Environmental Protection Agency Region 8  
Agency Contact: 855-246-3642  
Most Recent Contact: 02/04/2022

**INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land in EPA Region 9**

Agency Version Date: 04/14/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 07/11/2022

Agency: U.S. Environmental Protection Agency Region 9  
Agency Contact: 855-246-3642  
Most Recent Contact: 04/14/2022



**FEDERAL, STATE, AND TRIBAL LEAKING STORAGE TANK LISTS (cont.)**

HIST LUST - MN: Historical listing of leaking storage tank incidents

Agency Version Date: 10/11/2017

Agency Update Frequency: No Longer Maintained

Planned Next Contact: 07/18/2022

Agency: Minnesota Pollution Control Agency

Agency Contact: 651-296-6300

Most Recent Contact: 04/21/2022

LUST - MN: Listing of leaking storage tank incident

Agency Version Date: 03/10/2022

Agency Update Frequency: Quarterly

Planned Next Contact: 06/06/2022

Agency: Minnesota Pollution Control Agency

Agency Contact: 651-296-6300

Most Recent Contact: 03/10/2022

**FEDERAL ERNS LIST**

ERNS: Emergency Response Notification System records of reported spills

Agency Version Date: 01/21/2022

Agency Update Frequency: Annually

Planned Next Contact: 07/15/2022

Agency: National Response Center United States Coast Guard

Agency Contact: N/R

Most Recent Contact: 04/19/2022

**FEDERAL INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES**

FED E C: Federal listing of remediation sites with engineering controls

Agency Version Date: 02/22/2022

Agency Update Frequency: Varies

Planned Next Contact: 05/20/2022

Agency: U.S. Environmental Protection Agency

Agency Contact: 800-424-9346

Most Recent Contact: 02/22/2022

FED I C: Federal listing of remediation sites with institutional controls

Agency Version Date: 02/22/2022

Agency Update Frequency: Varies

Planned Next Contact: 05/20/2022

Agency: U.S. Environmental Protection Agency

Agency Contact: 800-424-9346

Most Recent Contact: 02/22/2022

RCRA IC\_EC: Sites with institutional or engineering controls related to Resource Conservation and Recovery Act

Agency Version Date: 02/04/2022

Agency Update Frequency: Varies

Planned Next Contact: 05/03/2022

Agency: U.S. Environmental Protection Agency

Agency Contact: 215-814-2469

Most Recent Contact: 02/04/2022

**FEDERAL RCRA GENERATORS LIST**

HIST RCRA\_CESQG: List of Resource Conservation and Recovery Act licensed conditionally exempt small quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018

Agency Update Frequency: Annually

Planned Next Contact: 05/23/2022

Agency: U.S. Environmental Protection Agency

Agency Contact: 215-814-2469

Most Recent Contact: 02/24/2022

HIST RCRA\_LQG: List of Resource Conservation and Recovery Act licensed large quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018

Agency Update Frequency: Annually

Planned Next Contact: 05/23/2022

Agency: U.S. Environmental Protection Agency

Agency Contact: 215-814-2469

Most Recent Contact: 02/24/2022



**FEDERAL RCRA GENERATORS LIST (cont.)**

HIST RCRA\_NONGEN: List of Resource Conservation and Recovery Act licensed non-generators that are no longer in current agency list.

Agency Version Date: 10/12/2018  
Agency Update Frequency: Annually  
Planned Next Contact: 05/23/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 215-814-2469  
Most Recent Contact: 02/24/2022

HIST RCRA\_SQG: List of Resource Conservation and Recovery Act licensed small quantity generators that are no longer in current agency list.

Agency Version Date: 10/12/2018  
Agency Update Frequency: Annually  
Planned Next Contact: 05/23/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 215-814-2469  
Most Recent Contact: 02/24/2022

RCRA\_LQG: Resource Conservation and Recovery Act listing of licensed large quantity generators

Agency Version Date: 12/30/2021  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/22/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 215-814-2469  
Most Recent Contact: 03/28/2022

RCRA\_NONGEN: Resource Conservation and Recovery Act listing of licensed non-generators

Agency Version Date: 12/30/2021  
Agency Update Frequency: Varies  
Planned Next Contact: 06/22/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 215-814-2469  
Most Recent Contact: 03/28/2022

RCRA\_SQG: Resource Conservation and Recovery Act listing of licensed small quantity generators

Agency Version Date: 12/30/2021  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/22/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 215-814-2469  
Most Recent Contact: 03/28/2022

RCRA\_VSQG: Resource Conservation and Recovery Act listing of licensed very small quantity generators.

Agency Version Date: 12/30/2021  
Agency Update Frequency: Varies  
Planned Next Contact: 06/22/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 215-814-2469  
Most Recent Contact: 03/28/2022

**FEDERAL NPL SITE LIST**

NPL: List of priority contaminated sites among identified releases or threatened releases of hazardous substances pollutants or contaminants nationally

Agency Version Date: 01/28/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 01/28/2022

NPL EPA R1 GIS: Geospatial data for the Environmental Protection Agency Region 1 National Priority List subject to environmental regulation

Agency Version Date: 01/28/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 202-566-2132  
Most Recent Contact: 01/28/2022

NPL EPA R3 GIS: Geospatial data for the Environmental Protection Agency Region 3 National Priority List subject to environmental regulation

Agency Version Date: 01/28/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 202-566-2132  
Most Recent Contact: 01/28/2022



**FEDERAL NPL SITE LIST (cont.)**

NPL EPA R6 GIS: Geospatial data for the Environmental Protection Agency Region 6 National Priority List subject to environmental regulation

Agency Version Date: 01/28/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 202-566-2132  
Most Recent Contact: 01/28/2022

NPL EPA R8 GIS: Geospatial data for the Environmental Protection Agency Region 8 National Priority List subject to environmental regulation

Agency Version Date: 01/28/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 202-566-2132  
Most Recent Contact: 01/28/2022

NPL EPA R9 GIS: Geospatial data for the Environmental Protection Agency Region 9 National Priority List subject to environmental regulation

Agency Version Date: 01/28/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 202-566-2132  
Most Recent Contact: 01/28/2022

PART NPL: Sites that are a part of an National Priority List site referred to as the parent site

Agency Version Date: 01/28/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 01/28/2022

PROPOSED NPL: Sites that have been proposed for the National Priority List

Agency Version Date: 01/28/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 01/28/2022

SEMS\_FINAL NPL: All Included National Priority List Sites

Agency Version Date: 01/28/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 01/28/2022

SEMS\_PROPOSED NPL: All Proposed National Priority List Sites

Agency Version Date: 01/28/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 01/28/2022

**STATE AND TRIBAL BROWNFIELD SITES**

TRIBAL BROWNFIELDS: Tribal brownfield remediation site listing

Agency Version Date: 02/10/2017  
Agency Update Frequency: No Longer Maintained  
Planned Next Contact: 06/10/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 855-246-3642  
Most Recent Contact: 03/16/2022

BROWNFIELDS - MN: Petroleum Brownfield remediation site listing

Agency Version Date: 02/04/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/03/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 02/04/2022



## STATE AND TRIBAL BROWNFIELD SITES (cont.)

MPCA BROWNFIELDS - MN: MPCA Brownfield remediation site listing

Agency Version Date: 03/10/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/06/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 03/10/2022

## STATE AND TRIBAL LANDFILL AND/OR SOLID WASTE DISPOSAL SITE LISTS

CLP - MN: Listing of priority closed landfills

Agency Version Date: 02/04/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/03/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 02/04/2022

SW OTHER - MN: Other solid waste facilities

Agency Version Date: 02/04/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/03/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 02/04/2022

SWF/LF - MN: Solid waste facility and landfill listing

Agency Version Date: 02/04/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/03/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 02/04/2022

## STATE AND TRIBAL EQUIVALENT DELISTED NPL SITE LIST

DEL PLP - MN: No longer monitored PLP Sites

Agency Version Date: 02/04/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 05/03/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: (651) 296-6300  
Most Recent Contact: 02/04/2022

## STATE INSTITUTIONAL CONTROLS / ENGINEERING CONTROLS REGISTRIES

HIST I C - MN: List of remediation sites with institutional controls that is no longer in current agency list.

Agency Version Date: 07/11/2018  
Agency Update Frequency: Annually  
Planned Next Contact: 05/06/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 02/08/2022

I C - MN: Remediation sites with institutional controls

Agency Version Date: 03/18/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/14/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 03/18/2022

## STATE RCRA GENERATORS LIST

HWG - MN: Listing of permitted hazardous waste generators

Agency Version Date: 02/04/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/03/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 02/04/2022



## STATE- AND TRIBAL - EQUIVALENT CERCLIS

MPCA REMEDIATION - MN: MPCA Remediation site listing

Agency Version Date: 03/10/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/06/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 03/10/2022

MPCA SUPERFUND - MN: MPCA Superfund site listing

Agency Version Date: 03/10/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/06/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 03/10/2022

SHWS - MN: Hazardous Waste RCRA and Integrated Remediation projects

Agency Version Date: 02/04/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/03/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 02/04/2022

SRS - MN: Site remediation section sites listing

Agency Version Date: 02/04/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/03/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 02/04/2022

## STATE- AND TRIBAL - EQUIVALENT NPL

PLP - MN: Listing of priority contaminated sites

Agency Version Date: 02/04/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/03/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 02/04/2022

## STATE AND TRIBAL VOLUNTARY CLEANUP SITES

VIC - MN: Voluntary investigation and cleanup program remediation site listing

Agency Version Date: 02/04/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/03/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 02/04/2022

## RECORDS OF EMERGENCY RELEASE REPORTS

HMIRS (DOT): Hazardous Material spills reported by the Department of Transportation

Agency Version Date: 03/18/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 06/14/2022

Agency: U.S. Department of Transportation  
Agency Contact: (202) 366-4996  
Most Recent Contact: 03/18/2022

AG SPILLS - MN: Listing of pesticide and fertilizer spill incident sites

Agency Version Date: 02/11/2022  
Agency Update Frequency: Semi Annually  
Planned Next Contact: 05/11/2022

Agency: Minnesota Department of Agriculture  
Agency Contact: 651-201-6000  
Most Recent Contact: 02/11/2022

HIST SPILLS - MN: Historical locations with known contamination from spills.

Agency Version Date: 03/16/2018  
Agency Update Frequency: No Longer Maintained  
Planned Next Contact: 07/06/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: (651) 757-2593  
Most Recent Contact: 04/11/2022



**RECORDS OF EMERGENCY RELEASE REPORTS (cont.)**

SPILLS - MN: Locations with known contamination from spills

Agency Version Date: 03/25/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 06/21/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: (651) 757-2593  
Most Recent Contact: 03/25/2022

TALES - MN: Tank leak and spill database site listing

Agency Version Date: 06/05/2017  
Agency Update Frequency: No Longer Maintained  
Planned Next Contact: 06/13/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 03/16/2022

**LOCAL BROWNFIELD LISTS**

BROWNFIELDS-ACRES: EPA Brownfields Assessment, Cleanup and Redevelopment Exchange System.

Agency Version Date: 09/17/2021  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/06/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 855-246-3642  
Most Recent Contact: 03/10/2022

FED BROWNFIELDS: Federal brownfield remediation sites

Agency Version Date: 01/24/2022  
Agency Update Frequency: Semi Annually  
Planned Next Contact: 07/18/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 855-246-3642  
Most Recent Contact: 04/21/2022

**LOCAL LISTS OF HAZARDOUS WASTE / CONTAMINATED SITES**

FED CDL: The U.S. Department of Justice listing of clandestine drug lab locations

Agency Version Date: 04/11/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 07/07/2022

Agency: U.S. Department of Justice  
Agency Contact: 202-307-7610  
Most Recent Contact: 04/11/2022

US HIST CDL: The U.S. Department of Justice historical listing of clandestine drug lab locations

Agency Version Date: 08/05/2019  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/16/2022

Agency: U.S. Department of Justice  
Agency Contact: 202-307-7610  
Most Recent Contact: 02/16/2022

CDL - MN: Methamphetamine Contaminated Properties

Agency Version Date: 04/06/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 07/04/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: (651) 201-5000  
Most Recent Contact: 04/06/2022

MPCA SITE ASSESSMENT - MN: MPCA Site Assessment listing

Agency Version Date: 03/10/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/06/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 03/10/2022

**LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES**

HIST INDIAN ODI R8: List of Region 8 Indian land open dump inventory sites maintained within the STARS program that is no longer in current agency list.

Agency Version Date: 11/12/2018  
Agency Update Frequency: Annually  
Planned Next Contact: 07/04/2022

Agency: Indian Health Service  
Agency Contact: 855-246-3642  
Most Recent Contact: 04/07/2022



**LOCAL LISTS OF LANDFILL / SOLID WASTE DISPOSAL SITES (cont.)**

INDIAN ODI R8: Region 8 Indian land open dump inventory sites maintained within the STARS program

Agency Version Date: 01/28/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 04/26/2022

Agency: Indian Health Service  
Agency Contact: 855-246-3642  
Most Recent Contact: 01/28/2022

ODI: Open dump inventory sites

Agency Version Date: 10/03/2017  
Agency Update Frequency: No Update  
Planned Next Contact: 05/10/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 855-246-3642  
Most Recent Contact: 02/11/2022

TRIBAL ODI: Indian land open dump inventory for all regions

Agency Version Date: 02/21/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 05/19/2022

Agency: Indian Health Service  
Agency Contact: 301-443-3593  
Most Recent Contact: 02/21/2022

SWRCY - MN: Listing of business that accept large (commercial) quantities of recyclables

Agency Version Date: 12/09/2021  
Agency Update Frequency: Varies  
Planned Next Contact: 06/01/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 03/07/2022

**LOCAL LAND RECORDS**

LIENS 2: Comprehensive Environmental Response Compensation and Liability Act sites with liens

Agency Version Date: 05/11/2017  
Agency Update Frequency: No Longer Maintained  
Planned Next Contact: 06/13/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 800-424-9346  
Most Recent Contact: 03/16/2022

HIST LIENS - MN: Historical Environmental Liens are institutional controls from the Site Remediation Systems

Agency Version Date: 08/02/2021  
Agency Update Frequency: Varies  
Planned Next Contact: 07/18/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: (651) 757-2573  
Most Recent Contact: 04/21/2022

LIENS - MN: Environmental Liens are institutional controls from the Site Remediation Systems

Agency Version Date: 01/24/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 07/18/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: (651) 757-2573  
Most Recent Contact: 04/21/2022

**OTHER ASCERTAINABLE RECORDS**

AFS: Air Facility Systems Quarterly Extract

Agency Version Date: 01/31/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/28/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 01/31/2022

ALT FUELING: Alternative Fueling Stations by fuel type.

Agency Version Date: 03/25/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/21/2022

Agency: U.S. Department of Energy  
Agency Contact: N/R  
Most Recent Contact: 03/25/2022



## OTHER ASCERTAINABLE RECORDS (cont.)

BRS: Reporting of hazardous waste generation and management from large quantity generators

Agency Version Date: 12/30/2021  
Agency Update Frequency: Biennial  
Planned Next Contact: 06/22/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 03/28/2022

CDC HAZDAT: The Agency for Toxic Substances and Disease Registry's Hazardous Substance Release/Health Effects Database.

Agency Version Date: 01/28/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 04/26/2022

Agency: Agency for Toxic Substances and Disease Registry  
Agency Contact: 770-488-6399  
Most Recent Contact: 01/28/2022

COAL ASH DOE: List of existing and planned generators with 1 megawatt or greater of combined capacity that are utilizing coal ash impoundments.

Agency Version Date: 09/29/2021  
Agency Update Frequency: Varies  
Planned Next Contact: 06/16/2022

Agency: Department of Energy  
Agency Contact: (202) 586-8800  
Most Recent Contact: 03/22/2022

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

Agency Version Date: 02/18/2021  
Agency Update Frequency: Varies  
Planned Next Contact: 04/29/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 02/01/2022

COAL GAS: Manufactured Gas Plant locations

Agency Version Date: 01/07/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 07/01/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 855-246-3642  
Most Recent Contact: 04/04/2022

COLLEGES: List of major Universities & Colleges

Agency Version Date: 04/15/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 07/13/2022

Agency: DHS Homeland Infrastructure Foundation  
Agency Contact: N/R  
Most Recent Contact: 04/15/2022

COLLEGES 2: List of Universities & Colleges

Agency Version Date: 02/08/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 07/14/2022

Agency: DHS Homeland Infrastructure Foundation  
Agency Contact: N/R  
Most Recent Contact: 04/18/2022

CONSENT (DECREES): Legal decisions regarding responsibility for Superfund locations

Agency Version Date: 01/28/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 04/26/2022

Agency: Environmental Protection Agency  
Agency Contact: (800) 424-9346  
Most Recent Contact: 01/28/2022

CORRECTIVE ACTIONS\_2020: In 2009 the EPA created the 2020 Corrective Action Baseline list of contaminated or potentially contaminated sites with a cleanup goal to complete 95% by the year 2020. The names on the list indicate the facility owners who may or may not have caused the contamination.

Agency Version Date: 12/21/2018  
Agency Update Frequency: No Longer Maintained  
Planned Next Contact: 07/15/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: N/R  
Most Recent Contact: 04/19/2022



## OTHER ASCERTAINABLE RECORDS (cont.)

DEBRIS EPA LF: EPA list of designated landfill facilities for the safe disposal of disaster debris.

Agency Version Date: 01/14/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 07/08/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 855-246-3642  
Most Recent Contact: 04/12/2022

DEBRIS EPA SWRCY: EPA list of facilities for the safe recovery, recycling, and disposal of disaster debris.

Agency Version Date: 01/14/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 07/08/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 855-246-3642  
Most Recent Contact: 04/12/2022

DOD: Department of Defense sites from the Protected Areas Database (PAD-US)

Agency Version Date: 01/28/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 07/22/2022

Agency: United States Geologic Survey (USGS)  
Agency Contact: 1-888-275-8747  
Most Recent Contact: 04/26/2022

DOT OPS: Incident Data Report

Agency Version Date: 02/14/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 05/12/2022

Agency: U.S. Department of Transportation  
Agency Contact: (202) 366-4996  
Most Recent Contact: 02/14/2022

ECHO: ECHO is EPA Enforcement and Compliance History Online website to search for facilities in your community to assess their compliance with environmental regulations related to CAA, CWA, RCRA, & SDWA.

Agency Version Date: 03/22/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/16/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 202-566-1667  
Most Recent Contact: 03/22/2022

ENOI: The Electronic Notice of Intent (eNOI) database contains construction sites and industrial facilities that submit permit requests to EPA for Construction General Permits (CGP) and Multi-Sector General Permits (MSGP).

Agency Version Date: 03/19/2021  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/02/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 03/08/2022

EPA FUELS: List of companies and facilities registered to participate in EPA Fuel Programs under Title 40 CFR Part 80.

Agency Version Date: 02/04/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/03/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: (202) 564-2307  
Most Recent Contact: 02/04/2022

EPA OSC: Listing of oil spills and hazardous substance release sites requiring EPA On-Site Coordinators.

Agency Version Date: 03/17/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/13/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: (202) 564-2307  
Most Recent Contact: 03/17/2022

EPA WATCH: The EPA Watch List was used to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. EPA maintained the lists from 2011 - 2013.

Agency Version Date: 02/09/2018  
Agency Update Frequency: No Longer Maintained  
Planned Next Contact: 06/13/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: (202) 564-2307  
Most Recent Contact: 03/16/2022



## OTHER ASCERTAINABLE RECORDS (cont.)

FA HWF: Hazardous Waste Facilities with Financial Assurance

Agency Version Date: 04/04/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 06/30/2022

Agency: Environmental Protection Agency  
Agency Contact: (800) 424-9346  
Most Recent Contact: 04/04/2022

FEDLAND: Federal Lands from the Protected Areas Database (PAD-US)

Agency Version Date: 01/28/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 07/22/2022

Agency: United States Geologic Survey (USGS)  
Agency Contact: 1-888-275-8747  
Most Recent Contact: 04/26/2022

FRS: Facility Registry Systems

Agency Version Date: 02/09/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 05/06/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 02/09/2022

FTTS: Tracking of administrative and enforcement activities related to FIFRA/TSCA

Agency Version Date: 04/06/2013  
Agency Update Frequency: No Longer Maintained  
Planned Next Contact: 06/28/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 564-2280  
Most Recent Contact: 04/01/2022

FTTS INSP: Tracking of inspections related to FIFRA/TSCA

Agency Version Date: 05/08/2017  
Agency Update Frequency: No Longer Maintained  
Planned Next Contact: 06/21/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 564-2280  
Most Recent Contact: 03/25/2022

FUDS: Defense sites that require cleanup

Agency Version Date: 02/07/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 05/05/2022

Agency: US Army Corps of Engineering  
Agency Contact: (202) 761-0011  
Most Recent Contact: 02/07/2022

HIST AFS: List of Air Facility Systems Quarterly Extract that are no longer in current agency list.

Agency Version Date: 06/14/2019  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/10/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 03/16/2022

HIST AFS 2: List of Air Facility Systems Quarterly Extract that are no longer in current agency list.

Agency Version Date: 11/26/2018  
Agency Update Frequency: Quarterly  
Planned Next Contact: 07/11/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 04/14/2022

HIST DOD: Department of Defense historical sites

Agency Version Date: 01/28/2022  
Agency Update Frequency: No Longer Maintained  
Planned Next Contact: 04/26/2022

Agency: Environmental Protection Agency  
Agency Contact: (800) 424-9346  
Most Recent Contact: 01/28/2022

HIST LEAD\_SMELTER: List of former lead smelter sites that is no longer in current agency list.

Agency Version Date: 12/12/2018  
Agency Update Frequency: Annually  
Planned Next Contact: 06/28/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 04/01/2022



## OTHER ASCERTAINABLE RECORDS (cont.)

HIST MLTS: List of sites in possession/use of radioactive materials regulated by NRC that is no longer in current agency list.

Agency Version Date: 07/13/2016  
Agency Update Frequency: Annually  
Planned Next Contact: 07/07/2022

Agency: Nuclear Regulatory Commission  
Agency Contact: (800) 397-4209  
Most Recent Contact: 04/11/2022

HIST PCB TRANS: List of PCB Disposal Facilities that are no longer in current agency list.

Agency Version Date: 01/18/2018  
Agency Update Frequency: No Update  
Planned Next Contact: 05/03/2022

Agency: Environmental Protection Agency  
Agency Contact: (703) 308-8404  
Most Recent Contact: 02/04/2022

HIST PCS ENF: List of permitted facilities to discharge wastewater (Federal equivalent to NPDES) that are no longer in current agency list.

Agency Version Date: 12/08/2018  
Agency Update Frequency: Annually  
Planned Next Contact: 05/17/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 564-6582  
Most Recent Contact: 02/18/2022

HIST PCS FACILITY: List of Permitted facilities to discharge wastewater (Federal equivalent to NPDES) that are no longer in current agency list.

Agency Version Date: 12/18/2018  
Agency Update Frequency: Annually  
Planned Next Contact: 05/17/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 564-6582  
Most Recent Contact: 02/18/2022

HIST SSTs: List of tracking of facilities who produce pesticides and their quantity that are no longer in current agency list.

Agency Version Date: 02/13/2019  
Agency Update Frequency: Annually  
Planned Next Contact: 05/06/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 02/08/2022

HOSPITALS: List of major Hospitals

Agency Version Date: 04/15/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 07/13/2022

Agency: DHS Homeland Infrastructure Foundation  
Agency Contact: N/R  
Most Recent Contact: 04/15/2022

HWC DOCKET: Listing of Federal facilities which are managing or have managed hazardous waste; or have had a release of hazardous waste.

Agency Version Date: 11/09/2021  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/03/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: (202) 564-2307  
Most Recent Contact: 02/03/2022

ICIS: Comprised of all Federal Administrative and Judicial enforcement information [intended to replace PCS] by tracking enforcement and compliance information (also contains what used to be known as FFTS)

Agency Version Date: 12/28/2021  
Agency Update Frequency: Varies  
Planned Next Contact: 06/21/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 03/25/2022

INACTIVE PCS: Inactive Permitted facilities to discharge wastewater

Agency Version Date: 12/28/2021  
Agency Update Frequency: Varies  
Planned Next Contact: 06/21/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 564-6582  
Most Recent Contact: 03/25/2022



## OTHER ASCERTAINABLE RECORDS (cont.)

INDIAN RESERVATION: American Indian Lands from the Protected Areas Database (PAD-US)

Agency Version Date: 01/28/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 07/22/2022

Agency: United States Geologic Survey (USGS)  
Agency Contact: 1-888-275-8747  
Most Recent Contact: 04/26/2022

LUCIS: Land Use Control Information Systems

Agency Version Date: 03/18/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/16/2022

Agency: Department of the Navy: BRAC PMO  
Agency Contact: (619) 532-0900  
Most Recent Contact: 03/18/2022

LUCIS 2: Land Use Control Information Systems

Agency Version Date: 01/17/2018  
Agency Update Frequency: No Longer Maintained  
Planned Next Contact: 05/03/2022

Agency: Department of the Navy: BRAC PMO  
Agency Contact: (619) 532-0900  
Most Recent Contact: 02/04/2022

MANIFEST EPA: EPA Hazardous Waste Electronic Manifest System (e-Manifest)

Agency Version Date: 02/08/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/06/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 02/08/2022

MINE OPERATIONS: Mine plants and operations for commodities monitored by the National Minerals Information Center of the USGS

Agency Version Date: 02/11/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 05/10/2022

Agency: USGS Mineral Resources Program  
Agency Contact: (703) 648-5953  
Most Recent Contact: 02/11/2022

MINES: Mines Master Index Files

Agency Version Date: 03/28/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 06/23/2022

Agency: Department of Labor  
Agency Contact: (202) 693-9400  
Most Recent Contact: 03/28/2022

MINES USGS: Listing of all active mines and mineral plants in 2003

Agency Version Date: 02/11/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 05/10/2022

Agency: USGS Mineral Resources Program  
Agency Contact: (703) 648-5953  
Most Recent Contact: 02/11/2022

MLTS: Sites in possession/use of radioactive materials regulated by NRC

Agency Version Date: 01/21/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 07/15/2022

Agency: Nuclear Regulatory Commission  
Agency Contact: (800) 397-4209  
Most Recent Contact: 04/19/2022

NPL AOC: Areas of Concern related to NPL remediation sites

Agency Version Date: 01/28/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/26/2022

Agency: Environmental Protection Agency  
Agency Contact: N/R  
Most Recent Contact: 01/28/2022

NPL LIENS: National Priority List of sites with Liens

Agency Version Date: 01/28/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 01/28/2022



## OTHER ASCERTAINABLE RECORDS (cont.)

### NURSING HOMES: List of Nursing Homes

Agency Version Date: 01/14/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 07/08/2022

Agency: DHS Homeland Infrastructure Foundation  
Agency Contact: N/R  
Most Recent Contact: 04/12/2022

### OSHA: OSHA's listing of inspections violations and fatality information

Agency Version Date: 12/27/2021  
Agency Update Frequency: Varies  
Planned Next Contact: 06/20/2022

Agency: Occupational Safety & Health Administration  
Agency Contact: 800-321-6742  
Most Recent Contact: 03/24/2022

### PADS: Listing of generators transporters commercial store/ brokers and disposers of PCB

Agency Version Date: 01/28/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 04/26/2022

Agency: Environmental Protection Agency  
Agency Contact: (703) 308-8404  
Most Recent Contact: 01/28/2022

### PCB TRANSFORMER: Disposal and Storage of Polychlorinated Biphenyl (PCB) Waste

Agency Version Date: 02/11/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/10/2022

Agency: Environmental Protection Agency  
Agency Contact: (703) 308-8404  
Most Recent Contact: 02/11/2022

### PCS ENF: Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

Agency Version Date: 03/25/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 06/21/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 564-6582  
Most Recent Contact: 03/25/2022

### PCS FACILITY: Permitted facilities to discharge wastewater (Federal equivalent to NPDES)

Agency Version Date: 12/28/2021  
Agency Update Frequency: Varies  
Planned Next Contact: 06/21/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 564-6582  
Most Recent Contact: 03/25/2022

### PFAS NPL: List of NPL sites with PFAS or PFOA contamination

Agency Version Date: 04/01/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/28/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 04/01/2022

### PFAS TRIS: List of TRIS sites where PFAS or PFOA are used/manufactured/ treated/ transported/released.

Agency Version Date: 03/25/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 06/21/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 03/25/2022

### PFAS UCMR3: List of PWS wells sampled for Unregulated Contaminant Monitoring Rule (UCMR)

Agency Version Date: 03/08/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/02/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 03/08/2022

### RAATS: Listing of major violators with enforcement actions issued under RCRA. Includes administrative and civil actions filed by the EPA. This dataset is no longer maintained.

Agency Version Date: 09/23/2019  
Agency Update Frequency: Varies  
Planned Next Contact: 07/14/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 04/18/2022



## OTHER ASCERTAINABLE RECORDS (cont.)

RADINFO: EPA regulated facilities with radiation and radioactive materials

Agency Version Date: 08/01/2019  
Agency Update Frequency: Varies  
Planned Next Contact: 06/30/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 04/06/2022

RMP: Facilities producing/handling/ process/ distribute/ store specific chemicals report plans required by the Clean Air Act

Agency Version Date: 01/04/2022  
Agency Update Frequency: Monthly  
Planned Next Contact: 06/28/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 564-2534  
Most Recent Contact: 04/01/2022

ROD: Permanent remedy at an NPL site

Agency Version Date: 01/28/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 04/26/2022

Agency: Environmental Protection Agency  
Agency Contact: (800) 424-9346  
Most Recent Contact: 01/28/2022

SCHOOLS PRIVATE: List of Private Schools

Agency Version Date: 04/15/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 07/13/2022

Agency: DHS Homeland Infrastructure Foundation  
Agency Contact: N/R  
Most Recent Contact: 04/15/2022

SCHOOLS PUBLIC: List of Public Schools

Agency Version Date: 02/08/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 07/13/2022

Agency: DHS Homeland Infrastructure Foundation  
Agency Contact: N/R  
Most Recent Contact: 04/15/2022

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners

Agency Version Date: 03/02/2022  
Agency Update Frequency: No Update  
Planned Next Contact: 05/27/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 03/02/2022

SEMS\_SMELTER: This report includes sites that have smelting-related, or potentially smelting-related, indicators in the SEMS database. The report includes information on the site location as well as contaminants of concern.

Agency Version Date: 01/28/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/26/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 703-603-8867  
Most Recent Contact: 01/28/2022

SSTS: Tracking of facilities who produce pesticides and their quantity

Agency Version Date: 03/08/2022  
Agency Update Frequency: Annually  
Planned Next Contact: 06/02/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 03/08/2022

STORMWATER: Permitted storm water sites

Agency Version Date: 03/18/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 06/14/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 03/18/2022

TOSCA-PLANT: Plants controlled by the Toxic Substance Control Act

Agency Version Date: 03/14/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 06/09/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 03/14/2022



## OTHER ASCERTAINABLE RECORDS (cont.)

TRIS: Information regarding toxic chemicals that are being used/manufactured/ treated/ transported/released into the environment

Agency Version Date: 03/25/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 06/21/2022

Agency: Environmental Protection Agency  
Agency Contact: (202) 566-1667  
Most Recent Contact: 03/25/2022

UMTRA: Uranium Recovery Sites

Agency Version Date: 07/08/2021  
Agency Update Frequency: Varies  
Planned Next Contact: 06/21/2022

Agency: United States Nuclear Regulatory Commission  
Agency Contact: (301) 415-8200  
Most Recent Contact: 03/25/2022

VAPOR: EPA Vapor Intrusion Database

Agency Version Date: 03/19/2021  
Agency Update Frequency: Varies  
Planned Next Contact: 06/03/2022

Agency: U.S. Environmental Protection Agency  
Agency Contact: 855-246-3642  
Most Recent Contact: 03/08/2022

AG\_LICENSES - MN: Fertilizer related facilities from the Minnesota Department of Agriculture Licensing Data

Agency Version Date: 03/24/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/20/2022

Agency: Minnesota Department of Agricultural  
Agency Contact: 612.626.2969  
Most Recent Contact: 03/24/2022

AIRS - MN: Facilities with air permits

Agency Version Date: 02/03/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/02/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 02/03/2022

BULK - MN: Listing of facilities that hold a bulk fertilizer/pesticide storage permit

Agency Version Date: 02/08/2022  
Agency Update Frequency: Semi Annually  
Planned Next Contact: 05/06/2022

Agency: Minnesota Department of Agriculture  
Agency Contact: 651-201-6000  
Most Recent Contact: 02/08/2022

COAL ASH - MN: Coal Ash Disposal Site listing

Agency Version Date: 02/11/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 05/09/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: (651) 757-2373  
Most Recent Contact: 02/11/2022

DRYCLEANERS - MN: Registered Drycleaning Facilities and laundries

Agency Version Date: 03/10/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 06/06/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: (651) 757-2573  
Most Recent Contact: 03/10/2022

EMI - MN: Point Source Air Emissions Inventory

Agency Version Date: 07/13/2021  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/28/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 04/01/2022

ENF - MN: Listing of generators with enforcement actions

Agency Version Date: 03/08/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/02/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 218-316-3887  
Most Recent Contact: 03/08/2022



**OTHER ASCERTAINABLE RECORDS (cont.)****FA 2 - MN: Solid Waste Facilities with FA**

Agency Version Date: 02/18/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/17/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: (651) 757-2220  
Most Recent Contact: 02/18/2022

**FA 3 - MN: Hazardous Waste sites with FA**

Agency Version Date: 03/17/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 06/15/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: (651) 757-2220  
Most Recent Contact: 03/17/2022

**FEEDLOTS - MN: List of Feedlot Sites**

Agency Version Date: 03/31/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 05/05/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 02/07/2022

**HIST AGVIC - MN: List of Agricultural Cleanup sites that are no longer in current agency list.**

Agency Version Date: 01/28/2019  
Agency Update Frequency: Annually  
Planned Next Contact: 07/12/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 04/15/2022

**HIST DRYCLEANERS - MN: List of Registered Drycleaning Facilities and laundries that are no longer in current agency list.**

Agency Version Date: 07/01/2019  
Agency Update Frequency: Annually  
Planned Next Contact: 06/13/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: (651) 757-2573  
Most Recent Contact: 03/16/2022

**HIST FA 2 - MN: Historical Solid Waste Facilities with FA**

Agency Version Date: 02/26/2019  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/12/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: (651) 757-2220  
Most Recent Contact: 02/15/2022

**HIST MANIFEST - MN: List of Hazardous Waste Manifest sites that are no longer in current agency list.**

Agency Version Date: 08/08/2017  
Agency Update Frequency: No Longer Maintained  
Planned Next Contact: 07/05/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: (651) 757-2382  
Most Recent Contact: 04/08/2022

**HIST UNPERM LF - MN: List of solid waste facilities that accept waste but do not hold a permit at this time and are no longer in current agency list.**

Agency Version Date: 09/10/2018  
Agency Update Frequency: Annually  
Planned Next Contact: 06/27/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 03/31/2022

**HIST WIMN - MN: List of WIMN sites involved in the site assessments, emergency management, environmental review, petroleum tanks, and other programs that is no longer in current agency list.**

Agency Version Date: 12/12/2018  
Agency Update Frequency: Annually  
Planned Next Contact: 07/04/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 04/07/2022



## OTHER ASCERTAINABLE RECORDS (cont.)

### HWS PERMIT - MN: List of Hazardous Waste Permit Sites

Agency Version Date: 02/04/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/03/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 02/04/2022

### MANIFEST - MN: Hazardous Waste Manifest sites

Agency Version Date: 08/08/2017  
Agency Update Frequency: No Longer Maintained  
Planned Next Contact: 07/05/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: (651) 757-2382  
Most Recent Contact: 04/08/2022

### MANIFEST\_SCOTT COUNTY - MN: MANIFEST records for Scott County, Minnesota

Agency Version Date: 03/03/2018  
Agency Update Frequency: No Longer Maintained  
Planned Next Contact: 05/31/2022

Agency: Scott County, MN  
Agency Contact: (952) 445-7750  
Most Recent Contact: 03/04/2022

### MDA LIC - MN: Minnesota Department of Agriculture licensed facilities

Agency Version Date: 02/24/2022  
Agency Update Frequency: Varies  
Planned Next Contact: 05/23/2022

Agency: Minnesota Department of Agriculture  
Agency Contact: 651-201-6000  
Most Recent Contact: 02/24/2022

### MPCA UNPERM LF - MN: List of Unpermitted LF sites from the MPCA Remediation database.

Agency Version Date: 03/10/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 06/06/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 03/10/2022

### NPDES - MN: Listing of facilities with wastewater and NPDES permits

Agency Version Date: 02/03/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 05/02/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 02/03/2022

### PFAS - MN: List of PFAS sites and areas of interest

Agency Version Date: 01/12/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 07/08/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: N/R  
Most Recent Contact: 04/11/2022

### T 2 - MN: List of facilities that submit an Emergency and Hazardous Chemical Inventory Form

Agency Version Date: 09/23/2021  
Agency Update Frequency: Varies  
Planned Next Contact: 06/16/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: (651) 201-7417  
Most Recent Contact: 03/18/2022

### WIMN - MN: Listing of WIMN sites involved in the site assessments, emergency management, environmental review, petroleum tanks, and other programs

Agency Version Date: 02/02/2022  
Agency Update Frequency: Quarterly  
Planned Next Contact: 04/29/2022

Agency: Minnesota Pollution Control Agency  
Agency Contact: 651-296-6300  
Most Recent Contact: 02/02/2022



**SUBJECT PROPERTY ADDRESS:**

Lester Park 4th Division  
6401 E Superior St  
Duluth, MN 55804

**SUBJECT PROPERTY COORDINATES:**

Latitude(North):	46.843605 - 46°50'37"
Longitude(West):	-92.000675 - -92°0'2.4"
Universal Transverse Mercator:	Zone 15N
UTM X (Meters):	576195.41
UTM Y (Meters):	5188269.52
State Plane Coordinates:	2201 - Minnesota North (US Survey Feet)
X Coordinate (Feet):	2899782.183 E
Y Coordinate (Feet):	455370.186 N

**ELEVATION:**

Elevation: 696 ft. above sea level

**USGS TOPOGRAPHIC MAP:**

Subject Property Map: 46091-G8 Lakewood, MN  
Most Recent Revision: 2019

Subject Property Map: 46092-G1 Duluth, MN  
Most Recent Revision: 2019

**GEOHYDROLOGY DATA:****SUBJECT PROPERTY TOPOGRAPHY:**

Topographic Gradient: Southwest

**DFIRM FLOOD ZONE:**

	DFIRM Flood
Subject Property County:	Electronic Data:
ST. LOUIS	No available data.
Flood Plain Panel at Subject Property:	No available data
Additional Panels in search area:	No available data

**FEMA FLOOD ZONE:**

	FEMA Flood
Subject Property County:	Electronic Data:
ST. LOUIS	Yes - refer to the PROPERTY PROXIMITY MAP and AREA MAP
Flood Plain Panel at Subject Property:	2704210030C
Additional Panels in search area:	2704210015C



**NATIONAL WETLAND INVENTORY:**

NWI Electronic	
<u>NWI Quad at Subject Property:</u>	<u>Data Coverage:</u>
Lakewood	Yes - refer to the Geological Findings Map

**LITHOSTRATIGRAPHIC INFORMATION:**

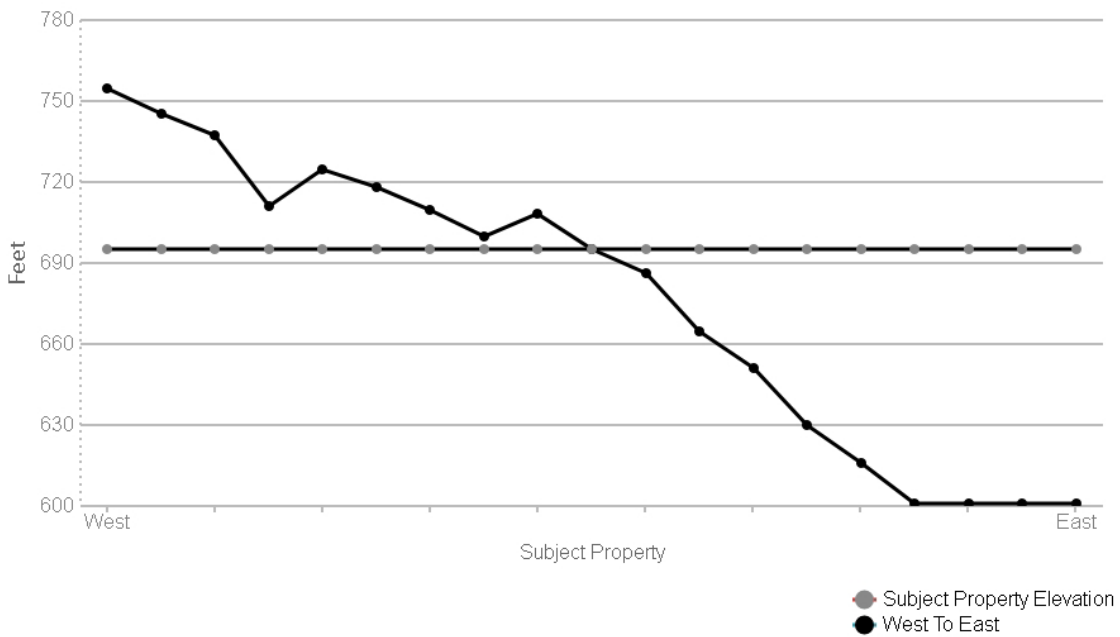
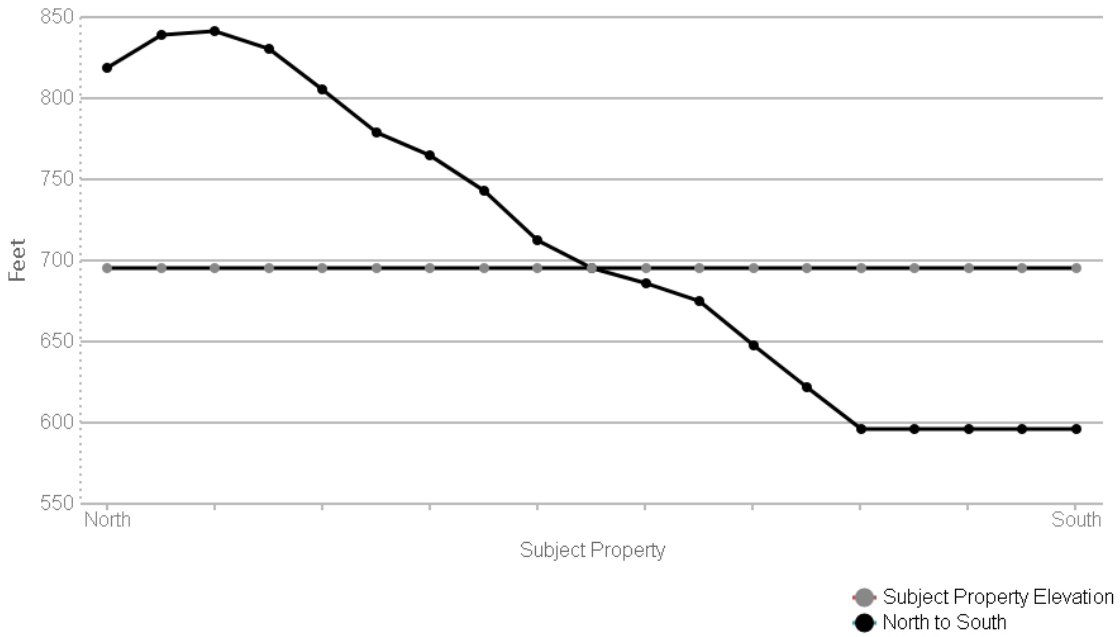
**ROCK STRATIGRAPHIC UNIT:**

**GEOLOGIC AGE IDENTIFICATION**

Era:	Precambrian	Category: 144 Yv Y volcanic rocks
System:	Y	
Series:	Y volcanic rocks	
Code:	Yv	



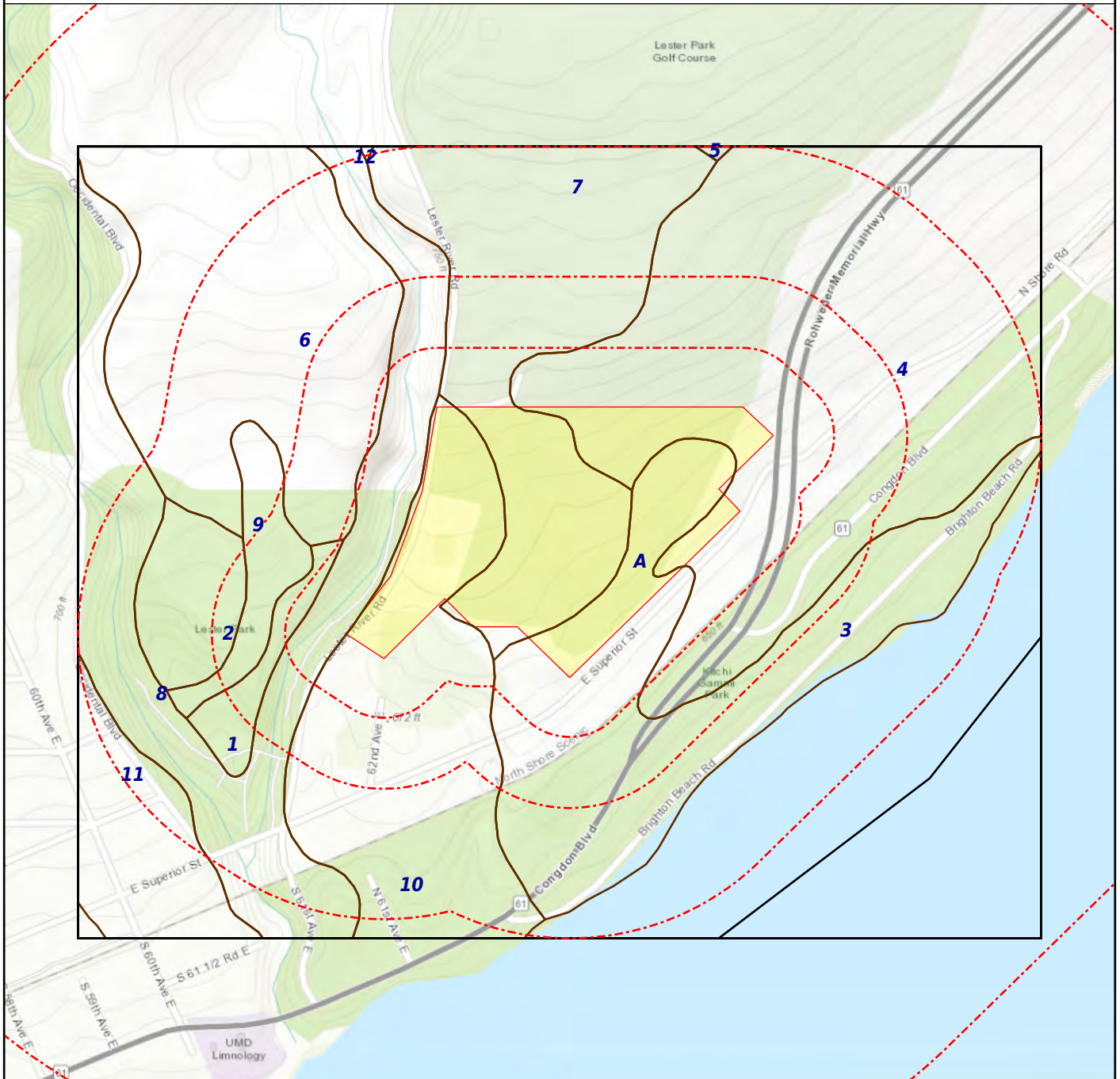
**SURROUNDING ELEVATION PROFILES:**





SUBJECT NAME: Lester Park 4th Division  
 ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
 LAT/LONG: 46.843605 / -92.000675

PREPARED FOR: Bay West Inc  
 ORDER #: 71089  
 REPORT DATE: April 26, 2022



+ Subject Property

— SSURGO

— STATSGO



## SOIL COMPOSITION IN GENERAL AREA OF SUBJECT PROPERTY:

Agency source: Soil Conservation Service, US Department of Agriculture

### SOIL MAP ID 1

### SSURGO

USDA Soil Name	Udifluvents,Taxon above family
USDA Soil Texture	Loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	5
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-141.14	4.5-6
2	20-102	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-141.14	4.5-6
3	102-203	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	4.23-141.14	6.1-7.3



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	102-203	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	4.23-141.14	6.1-7.3

**SOIL MAP ID 2****SSURGO**

USDA Soil Name	Udifluvents,Taxon above family
USDA Soil Texture	Loam
Hydrologic Soil Group	C
Soil Drainage Class	Moderately well drained
Hydric Classification	5
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-141.14	4.5-6
2	20-102	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-141.14	4.5-6



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	20-102	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-141.14	4.5-6
3	102-203	Loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-141.14	6.1-7.3

### SOIL MAP ID 3

### SSURGO

USDA Soil Name	Barto, Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	5
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	4.5-6
2	5-33	Sandy loam	Reference: This is a	COARSE-GRAINED SOILS,	4.23-42.34	4.5-6



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-33	Sandy loam	classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	4.5-6
3	33-203		No data	No data	0-0.07	0-0

**SOIL MAP ID 4****SSURGO**

USDA Soil Name	Barto, Series
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	5
Corrosion Potential - Uncoated Steel	Moderate

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-5	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	4.5-6
2	5-33	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75	4.23-42.34	4.5-6



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	5-33	Sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	4.5-6
3	33-203		No data	No data	0-0.07	0-0

## SOIL MAP ID 5

## SSURGO

USDA Soil Name	Amnicon, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	5
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	4.5-6.6
2	10-20	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	4.23-14.11	4.5-5



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	10-20	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5
3	20-33	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	5.1-6
4	33-76	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0-0.42	6.6-7.8
5	76-114	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	0-0.42	7.4-8.4



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	76-114	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0-0.42	7.4-8.4
6	114-203	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0-1.41	7.9-8.4

### SOIL MAP ID 6

### SSURGO

USDA Soil Name	Amnicon, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Moderately well drained
Hydric Classification	5
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials,	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and	1.41-14.11	4.5-6.6



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-10	Silt loam	1984.	the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	4.5-6.6
2	10-20	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-14.11	4.5-5
3	20-33	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	5.1-6
4	33-76	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM,	0-0.42	6.6-7.8



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	33-76	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	1984).	0-0.42	6.6-7.8
5	76-114	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0-0.42	7.4-8.4
6	114-203	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0-1.41	7.9-8.4



**SOIL MAP ID 7****SSURGO**

USDA Soil Name	Cuttre, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	20
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	4.5-6.6
2	13-20	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	5.1-6
3	20-66	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0-0.42	6.6-7.8



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	20-66	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0-0.42	6.6-7.8
4	66-165	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0-0.42	7.4-8.4
5	165-203	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0-1.41	7.9-8.4



**SOIL MAP ID 8**
**SSURGO**

USDA Soil Name	Miskoaki, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	4.5-6.6
2	8-15	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	5.1-6
3	15-48	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM	0-0.42	6.6-7.8



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
3	15-48	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	test D 2487, in ASTM, 1984).	0-0.42	6.6-7.8
4	48-122	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0-0.42	7.4-8.4
5	122-203	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0-1.41	7.9-8.4



**SOIL MAP ID 9****SSURGO**

USDA Soil Name	Udifluvents, Taxon above family
USDA Soil Texture	Sandy loam
Hydrologic Soil Group	A/D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	65
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-20	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	4.5-6
2	20-109	Coarse sandy loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	5.1-6.5
3	109-122	Sandy loam	Silt-Clay materials (more than 35% passing NO. 200), silty soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-42.34	4.5-6
4	122-203	Silt loam	Silt-Clay materials (more than 35% passing NO. 200), silty	Reference: This is a classification of soil material designed for	4.23-141.14	6.1-7.3



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	122-203	Silt loam	soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	4.23-141.14	6.1-7.3

## SOIL MAP ID 10

## SSURGO

USDA Soil Name	Cuttre, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Somewhat poorly drained
Hydric Classification	20
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-13	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	4.5-6.6
2	13-20	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	0.42-4.23	5.1-6



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
2	13-20	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	5.1-6
3	20-66	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0-0.42	6.6-7.8
4	66-165	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0-0.42	7.4-8.4
5	165-203	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil	0-1.41	7.9-8.4



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
5	165-203	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0-1.41	7.9-8.4

**SOIL MAP ID 11****SSURGO**

USDA Soil Name	Urban land,Miscellaneous area
USDA Soil Texture	Not Reported
Hydrologic Soil Group	Not Reported
Soil Drainage Class	Not Reported
Hydric Classification	0
Corrosion Potential - Uncoated Steel	Not Reported

**SOIL MAP ID 12****SSURGO**

USDA Soil Name	Miskoaki, Series
USDA Soil Texture	Silt loam
Hydrologic Soil Group	D
Soil Drainage Class	Well drained
Hydric Classification	0
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays, (liquid limit is less than 50%), Silt. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in	1.41-14.11	4.5-6.6



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-8	Silt loam	Silt-Clay materials (more than 35% passing No. 200) clayey soils. Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	organic matter (ASTM test D 2487, in ASTM, 1984).	1.41-14.11	4.5-6.6
2	8-15	Silty clay loam	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is less than 50%), Lean Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0.42-4.23	5.1-6
3	15-48	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0-0.42	6.6-7.8
4	48-122	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and	0-0.42	7.4-8.4



Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
4	48-122	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0-0.42	7.4-8.4
5	122-203	Clay	Reference: This is a classification of soil material for highway and airfield construction (Procedure M 145-73 in Am. Assoc. of State Highway and Transportation Officials, 1984.	FINE-GRAINED SOILS, Silts and clays (liquid limit is 50% or more), Fat Clay. Reference: This is a classification of soil material designed for general construction purposes. It is dependent on the particle size distribution of the <75 mm, the liquid limit, and the plasticity index and on whether the soil material is high in organic matter (ASTM test D 2487, in ASTM, 1984).	0-1.41	7.9-8.4

**SOIL MAP ID A****STATSGO**

USDA Soil Name	Ontonagon, Series
USDA Soil Texture	Silty clay loam
Hydrologic Soil Group	D
Soil Drainage Class	Well drained
Hydric Classification	17
Corrosion Potential - Uncoated Steel	High

Layer	Depth (inches)	Soil Texture	AASHTO Group	Unified Soil Description	Saturated Hydraulic Conductivity micro m/sec	Soil Reaction pH
1	0-3	Silty clay loam	No data	No data	1.4114-4.2343	4.5-6.5
2	3-18	Clay	No data	No data	0-0.4234	4.5-7.3
3	18-60	Clay	No data	No data	0-0.4234	7.4-8.4



**WATER AGENCY DATA:****WATER AGENCY SEARCH DISTANCES:**

<u>DATABASE:</u>	<u>SEARCH DISTANCE (MILES):</u>
NWIS	1.000
PWS	1.000
WELLS - MN	1.000

<u>DISTANCE TO NEAREST:</u>	<u>DISTANCE:</u>
NWIS	0.289 mi / 1525 ft
PWS	0.383 mi / 2025 ft
WELLS - MN	0.277 mi / 1462 ft

**FEDERAL WATER AGENCY DATA SUMMARY:**

<u>MAP ID:</u>	<u>WELL ID:</u>	<u>LOCATION FROM SP:</u>
2	04015387	1/4 - 1/2 Mile W
3	04015390	1/4 - 1/2 Mile SW
7	MN5160492	1/4 - 1/2 Mile SW
16	LIVING STONES FELLOWSHIP ASSEMBLY OF GOD   Livingstone Church   MN5690328	1/2 - 1 Mile WSW
17	MN5690069	1/2 - 1 Mile NW

Note: PWS System location is not always the same as well location.

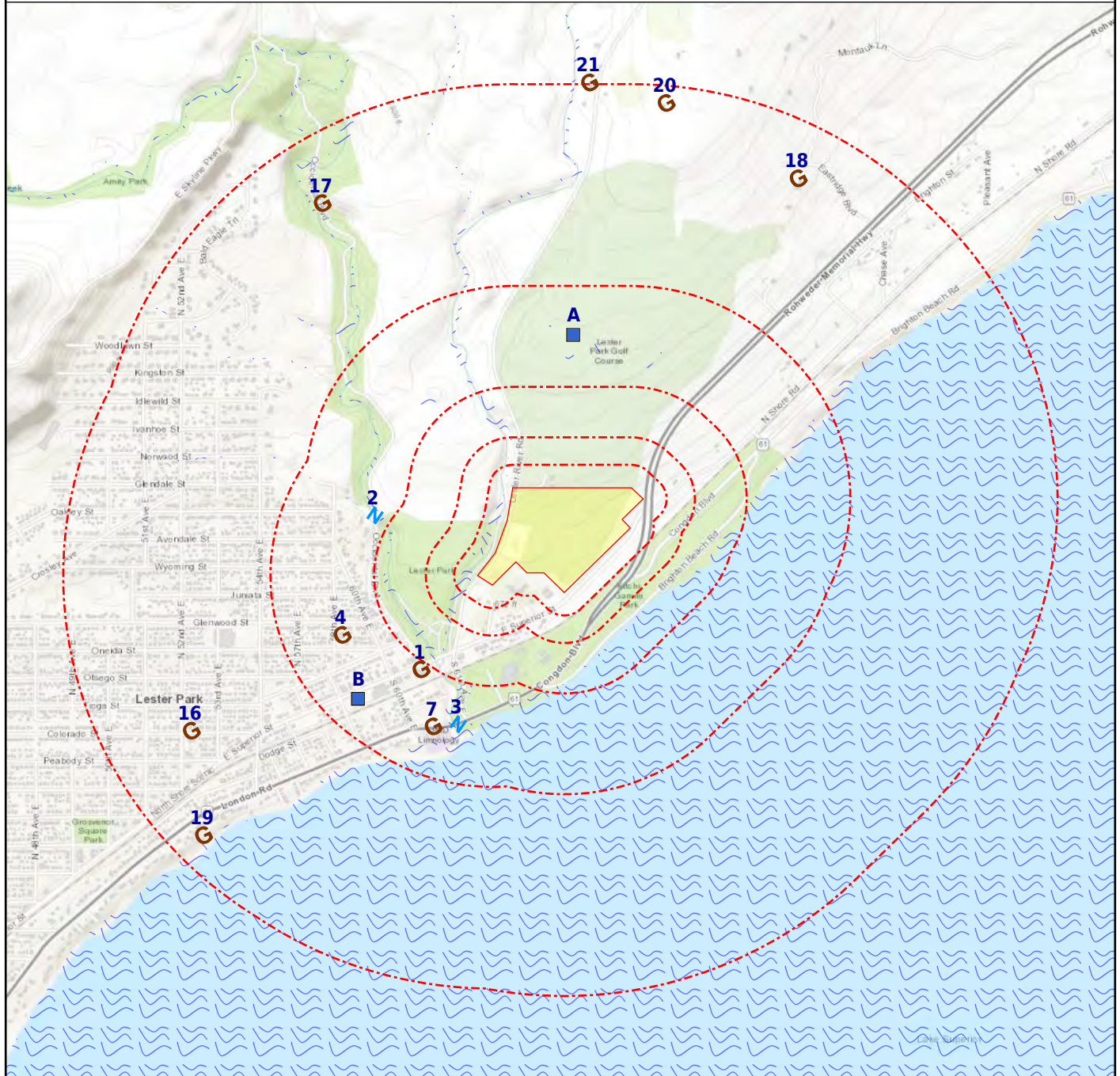
**STATE/LOCAL WATER AGENCY DATA SUMMARY:**

<u>MAP ID:</u>	<u>WELL ID:</u>	<u>LOCATION FROM SP:</u>
1	739034	1/4 - 1/2 Mile SW
4	340256	1/4 - 1/2 Mile WSW
A5	559217	1/4 - 1/2 Mile N
A6	559216	1/4 - 1/2 Mile N
A8	559218	1/4 - 1/2 Mile N
B9	710311	1/4 - 1/2 Mile WSW
B10	710307	1/4 - 1/2 Mile WSW
B11	710309	1/4 - 1/2 Mile WSW
B12	710312	1/4 - 1/2 Mile WSW
B13	710310	1/4 - 1/2 Mile WSW
B14	710313	1/4 - 1/2 Mile WSW
B15	710308	1/4 - 1/2 Mile WSW
18	661305	1/2 - 1 Mile NE
19	636600	1/2 - 1 Mile WSW
20	636413	1/2 - 1 Mile NNE
21	616153	1/2 - 1 Mile N



SUBJECT NAME: Lester Park 4th Division  
 ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
 LAT/LONG: 46.843605 / -92.000675

PREPARED FOR: Bay West Inc  
 ORDER #: 71089  
 REPORT DATE: April 26, 2022



- + Subject Property
- X Basins (No Data)
- Geologic Cluster with Water Well
- G Geological Site
- N NWI
- ~ NWIS



Map Id: 1  
 Direction: SW  
 Distance: 0.277 mi., 1463 ft.  
 Elevation: 655 ft.  
 Relative: Lower

**Site Name :** 739034  
 N/R  
 MN  
**Database(s) :** [WELLS - MN]

**EnviroSite ID:** 47426375  
**EPA ID:** N/R

## WELLS - MN

Well Name :	RED PINE DEVELOPMENT LLC
Status :	Active
Use :	Elevator
County :	69
Section/Township/Range :	SEC 5, TWP 50, RNG 13W
Sub Section :	DDACCC
MGS Quad C :	244D
Elevation :	654.0
Elevation MC :	L1
Loc MC :	1
Loc SRC :	CPZ
Data SRC :	L0008
Depth Drill :	39.0
Depth Comp :	39.0
Date Drill :	2006-04-08
Case Diameter :	16.0
Case Depth :	39.0
Grout :	Y
Pollut Dst :	0
Pollut Dir :	N/R
Pollut Type :	N/R
Strat Date :	2006-09-14
Strat Update :	2019-12-04
Strat SRC :	MGS
Strat Geol :	ARB
Strat MC :	Q
Depth 2 BDRK :	4.0
First BDRK :	PMUS
Last Strat :	PMUS
OH Top Unit :	N/R
OH Bot Unit :	N/R
Aquifer :	N/R
Cuttings :	N/R
Core :	N/R
BH Geo Phys :	N/R
Geo Chem :	N/R
Water Chem :	N/R
OB Well :	N/R
SWL :	Y
DH Video :	N/R
Input SRC :	MDH
Unused :	N/R
Entry Date :	0
Update Date :	2019-12-04
Geoc Type :	WW
GCM Code :	G60
Geoc SRC :	MGS
Geoc PRG :	CWI
Geoc Entry :	619007.0
Geoc Date :	2018-04-06
Geoc Update EN :	0.0
Geoc Update Date :	0
Received Date :	2006-05-08
SWL Count :	0.0
SWL Date :	0
SWL Average Measure :	0.0
SWL Average Elevation :	0.0



**Envirosite ID:** 47426375  
**EPA ID:** N/R

BDRK Elevation :	650.0
OH Top Elevation :	615.0
OH Bot Elevation :	615.0
Bot Hole Elevation :	615.0
Last Date in Agency List :	2022-04-20

**Envirosite ID:** 15276289  
**EPA ID:** N/R

Site Identification Number :	O4015387
Site Type :	Stream
Station Name :	AMITY CREEK AT DULUTH, MN
Agency :	U.S. Geological Survey
District :	N/R
State :	MN
County :	St. Louis County
Country :	USA
Land Net Location :	N/R
Name of Location Map :	N/R
Scale of Location Map :	N/R
Altitude of Gage/Land Surface :	N/R
Method Altitude Determined :	N/R
Altitude Accuracy :	N/R
Altitude Datum :	N/R
Hydrologic Unit :	Beaver-Lester
Drainage Basin :	N/R
Topographic Setting :	N/R
Flags for the Type of Data Collected:	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNI
Flags for Instruments at Site :	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Date of First Construction :	N/R
Date Site Established or Inventoried:	N/R
Drainage Area :	16.20
Contributing Drainage Area :	N/R
Data Reliability :	N/R
Data-Other GW Files :	NNNNNNNN
National Aquifer :	N/R
Local Aquifer :	N/R
Local Aquifer Type :	N/R
Well Depth :	N/R
Hole Depth :	N/R
Source of Depth Data :	N/R
Project Number :	MN-00112
Real-Time Data Flag :	0
Peak-Streamflow Data Begin Date :	N/R
Peak-Streamflow Data End Date :	N/R
Peak-Streamflow Data Count :	0



**Envirosite ID:** 15276289  
**EPA ID:** N/R

Water-Quality Data Begin Date :	N/R
Water-Quality Data End Date :	N/R
Water-Quality Data Count :	0
Field Water-Level Measurements Begin Date:	N/R
Field Water-level Measurements End Date:	N/R
Field Water-Level Measurements Count:	0
Site-Visit Data Begin Date :	1970-08-10
Site-Visit Data End Date :	2008-07-23
Site-Visit Data Count :	29
Latitude :	46.844104
Longitude :	-92.010187
Last Date in Agency List :	2021-12-15

**Envirosite ID:** 13682663  
**EPA ID:** N/R

[illegible]



Map Id: 3  
 Direction: SW  
 Distance: 0.361 mi., 1908 ft.  
 Elevation: 601 ft.  
 Relative: Lower

**Site Name :** 04015390  
 46.836604, -92.006021  
 MN  
**Database(s) :** [NWIS] (*cont.*)

**Envirosite ID:** 13682663  
**EPA ID:** N/R

## NWIS (*cont.*)

Local Aquifer Type : N/R  
 Well Depth : N/R  
 Hole Depth : N/R  
 Source of Depth Data : N/R  
 Project Number : MN-00112  
 Real-Time Data Flag : 0  
 Peak-Streamflow Data Begin Date : N/R  
 Peak-Streamflow Data End Date : N/R  
 Peak-Streamflow Data Count : 0  
 Water-Quality Data Begin Date : N/R  
 Water-Quality Data End Date : N/R  
 Water-Quality Data Count : 0  
 Field Water-Level Measurements Begin Date: N/R  
 Field Water-level Measurements End Date: N/R  
 Field Water-Level Measurements Count: 0  
 Site-Visit Data Begin Date : 1970-08-10  
 Site-Visit Data End Date : 2006-07-12  
 Site-Visit Data Count : 12  
 Latitude : 46.836604  
 Longitude : -92.006021  
 Last Date in Agency List : 2021-12-15

Map Id: 4  
 Direction: WSW  
 Distance: 0.363 mi., 1917 ft.  
 Elevation: 691 ft.  
 Relative: Lower

**Site Name :** 340256  
 N/R  
 MN  
**Database(s) :** [WELLS - MN]

**Envirosite ID:** 47494378  
**EPA ID:** N/R

## WELLS - MN

Well Name : TEMPORARY WELL  
 Status : Sealed  
 Use : Monitor Well  
 County : 69  
 Section/Township/Range : SEC 5, TWP 50, RNG 13W  
 Sub Section : DCAACB  
 MGS Quad C : 244D  
 Elevation : 691.0  
 Elevation MC : L1  
 Loc MC : 1  
 Loc SRC : MGS  
 Data SRC : 2622  
 Depth Drill : 13.5  
 Depth Comp : 13.5  
 Date Drill : 2017-04-24  
 Case Diameter : 0.0  
 Case Depth : 0.0  
 Grout : Y  
 Pollut Dst : 0



Map Id: 4  
 Direction: WSW  
 Distance: 0.363 mi., 1917 ft.  
 Elevation: 691 ft.  
 Relative: Lower

**Site Name :** 340256  
 N/R  
 MN  
**Database(s) :** [WELLS - MN] (**cont.**)

**EnviroSite ID:** 47494378  
**EPA ID:** N/R

## WELLS - MN (**cont.**)

Pollut Dir :	N/R
Pollut Type :	N/R
Strat Date :	0
Strat Update :	2018-05-07
Strat SRC :	MGS
Strat Geol :	BB
Strat MC :	Q
Depth 2 BDRK :	0.0
First BDRK :	N/R
Last Strat :	QNUR
OH Top Unit :	N/R
OH Bot Unit :	N/R
Aquifer :	QWTA
Cuttings :	N/R
Core :	N/R
BH Geo Phys :	N/R
Geo Chem :	N/R
Water Chem :	N/R
OB Well :	N/R
SWL :	Y
DH Video :	N/R
Input SRC :	MGS
Unused :	N
Entry Date :	2018-03-30
Update Date :	2018-05-07
Geoc Type :	N/R
GCM Code :	DS1
Geoc SRC :	MGS
Geoc PRG :	CWI
Geoc Entry :	619007.0
Geoc Date :	2018-03-30
Geoc Update EN :	0.0
Geoc Update Date :	0
Received Date :	2017-05-25
SWL Count :	1.0
SWL Date :	2017-04-24
SWL Average Measure :	12.0
SWL Average Elevation :	679.0
BDRK Elevation :	0.0
OH Top Elevation :	0.0
OH Bot Elevation :	677.5
Bot Hole Elevation :	677.5
Last Date in Agency List :	2022-04-20



Map Id: A5  
 Direction: N  
 Distance: 0.377 mi., 1993 ft.  
 Elevation: 838 ft.  
 Relative: Higher

**Site Name :** 559217  
 N/R  
 MN  
**Database(s) :** [WELLS - MN]

**Envirosite ID:** 47241515  
**EPA ID:** N/R

## WELLS - MN

Well Name :	MW-2
Status :	Sealed
Use :	Monitor Well
County :	69
Section/Township/Range :	SEC 4, TWP 50, RNG 13W
Sub Section :	BABBCB
MGS Quad C :	244D
Elevation :	838.0
Elevation MC :	L1
Loc MC :	S
Loc SRC :	MGS
Data SRC :	M0142
Depth Drill :	15.0
Depth Comp :	15.0
Date Drill :	1995-03-28
Case Diameter :	2.0
Case Depth :	8.0
Grout :	Y
Pollut Dst :	40
Pollut Dir :	N
Pollut Type :	Volatile organic compounds
Strat Date :	2008-09-10
Strat Update :	2017-03-08
Strat SRC :	MGS
Strat Geol :	BB
Strat MC :	Q
Depth 2 BDRK :	0.0
First BDRK :	N/R
Last Strat :	QCUU
OH Top Unit :	QCUU
OH Bot Unit :	QCUU
Aquifer :	QWTA
Cuttings :	N/R
Core :	N/R
BH Geo Phys :	N/R
Geo Chem :	N/R
Water Chem :	N/R
OB Well :	N/R
SWL :	Y
DH Video :	N/R
Input SRC :	MGS
Unused :	N
Entry Date :	2008-09-10
Update Date :	2020-09-06
Geoc Type :	N/R
GCM Code :	DS2
Geoc SRC :	MGS
Geoc PRG :	CWI
Geoc Entry :	619079.0
Geoc Date :	2016-03-16
Geoc Update EN :	0.0
Geoc Update Date :	0
Received Date :	0
SWL Count :	1.0
SWL Date :	1995-03-28
SWL Average Measure :	10.0
SWL Average Elevation :	828.0



Map Id: A5  
 Direction: N  
 Distance: 0.377 mi., 1993 ft.  
 Elevation: 838 ft.  
 Relative: Higher

**Site Name :** 559217  
 N/R  
 MN  
**Database(s) :** [WELLS - MN] (**cont.**)

**Envirosite ID:** 47241515  
**EPA ID:** N/R

## WELLS - MN (**cont.**)

BDRK Elevation : 0.0  
 OH Top Elevation : 830.0  
 OH Bot Elevation : 823.0  
 Bot Hole Elevation : 823.0  
 Last Date in Agency List : 2022-04-20

Map Id: A6  
 Direction: N  
 Distance: 0.379 mi., 2003 ft.  
 Elevation: 840 ft.  
 Relative: Higher

**Site Name :** 559216  
 N/R  
 MN  
**Database(s) :** [WELLS - MN]

**Envirosite ID:** 47451185  
**EPA ID:** N/R

## WELLS - MN

Well Name : MW-1  
 Status : Sealed  
 Use : Monitor Well  
 County : 69  
 Section/Township/Range : SEC 4, TWP 50, RNG 13W  
 Sub Section : BABBCB  
 MGS Quad C : 243C  
 Elevation : 838.0  
 Elevation MC : L1  
 Loc MC : S  
 Loc SRC : MGS  
 Data SRC : M0142  
 Depth Drill : 18.0  
 Depth Comp : 18.0  
 Date Drill : 1995-03-27  
 Case Diameter : 2.0  
 Case Depth : 18.0  
 Grout : Y  
 Pollut Dst : 30  
 Pollut Dir : NW  
 Pollut Type : Volatile organic compounds  
 Strat Date : 2008-09-10  
 Strat Update : 2017-03-08  
 Strat SRC : MGS  
 Strat Geol : BB  
 Strat MC : Q  
 Depth 2 BDRK : 0.0  
 First BDRK : N/R  
 Last Strat : QCUU  
 OH Top Unit : QCUU  
 OH Bot Unit : QCUU  
 Aquifer : QWTA  
 Cuttings : N/R  
 Core : N/R  
 BH Geo Phys : N/R  
 Geo Chem : N/R  
 Water Chem : N/R



Map Id: A6  
 Direction: N  
 Distance: 0.379 mi., 2003 ft.  
 Elevation: 840 ft.  
 Relative: Higher

**Site Name :** 559216  
 N/R  
 MN  
**Database(s) :** [WELLS - MN] (**cont.**)

**Envirosite ID:** 47451185  
**EPA ID:** N/R

## WELLS - MN (**cont.**)

OB Well : N/R  
 SWL : Y  
 DH Video : N/R  
 Input SRC : MGS  
 Unused : N  
 Entry Date : 2008-09-10  
 Update Date : 2020-09-06  
 Geoc Type : N/R  
 GCM Code : DS2  
 Geoc SRC : MGS  
 Geoc PRG : CWI  
 Geoc Entry : 619079.0  
 Geoc Date : 2016-03-16  
 Geoc Update EN : 0.0  
 Geoc Update Date : 0  
 Received Date : 0  
 SWL Count : 1.0  
 SWL Date : 1995-03-27  
 SWL Average Measure : 10.0  
 SWL Average Elevation : 828.0  
 BDRK Elevation : 0.0  
 OH Top Elevation : 820.0  
 OH Bot Elevation : 820.0  
 Bot Hole Elevation : 820.0  
 Last Date in Agency List : 2022-04-20

Map Id: 7  
 Direction: SW  
 Distance: 0.383 mi., 2025 ft.  
 Elevation: 622 ft.  
 Relative: Lower

**Site Name :** MN5160492  
 6008 London Road  
 Duluth, MN 55802  
**Database(s) :** [PWS, PWS ENF]

**Envirosite ID:** 3546637  
**EPA ID:** N/R

## PWS

Facility Address : 6008 London Road, Duluth, MN 55802

PWS ID : MN5160492  
 PWS Type : Transient non-community system  
 PWS Name : Sugarloaf Cove Interpretive Center  
 Activity Status : Active  
 Primary Source : Ground water  
 Submission Year : 2021  
 Submission Year Quarter : 2021Q4  
 Population Served Count : 25  
 Service Connections Count : 1  
 Population Category 2 : <10,000  
 Population Category 3 : <=3300  
 Population Category 4 : <10K  
 Population Category 5 : <=500  
 Population Category 11 : <=100



Map Id: 7  
 Direction: SW  
 Distance: 0.383 mi., 2025 ft.  
 Elevation: 622 ft.  
 Relative: Lower

**Site Name :** MN5160492  
 6008 London Road  
 Duluth, MN 55802  
**Database(s) :** [PWS, PWS ENF] (**cont.**)

**Envirosite ID:** 3546637  
**EPA ID:** N/R

## PWS (**cont.**)

Submission Quarter :	4
Submission Status Code :	Y
First Reported Date :	2005-12-06
Last Reported Date :	2021-12-02
Deactivation Date :	N/R
GW or SW :	Groundwater
Is Grant Eligible :	Y
Is Outstanding Performer :	N/R
Is School or Daycare :	N
Is Source Water Protected :	N/R
Primacy Agency :	Minnesota
Primacy Type :	State
Org Name :	Sugarloaf: The North Shore Stewardship Association
EPA Region :	Region 5
Admin Name :	N/R
Owner Type :	Private
Phone Number :	N/R
Phone Ext Number :	N/R
Alt Phone Number :	N/R
Email Address :	N/R
Fax Number :	N/R
Is Wholesaler :	N
LT2 Schedule Category :	N/R
NPM Candidate :	Y
CDS ID :	9999
DBPR Schedule Category :	N/R
Outstanding Performer Date :	N/R
Season Begin Date :	01-01
Season End Date :	12-31
Source Water Protection Date :	N/R
Seasonal Startup System :	N/R
Reduced Monitoring Begin Date :	2016-04-01
Reduced Monitoring End Date :	N/R
Reduced RTRC Monitoring :	Annual
Last Date in Agency List :	2022-02-03

## PWS ENF

Facility Address : 6008 London Road, Duluth, MN 55802

## Site Details

PWS ID :	MN5160492
PWS Name :	Sugarloaf Cove Interpretive Center
EPA Region :	Region 5
Primacy Agency :	Minnesota
PWS Type :	Transient non-community system
Primacy Type :	State
Primary Source :	Ground water
Activity Status :	Active
Deactivation Date :	N/R
Owner Type :	Private
Phone Number :	N/R
Last Date in Agency List :	2022-03-28



Map Id: 7  
 Direction: SW  
 Distance: 0.383 mi., 2025 ft.  
 Elevation: 622 ft.  
 Relative: Lower

**Site Name :** MN5160492  
 6008 London Road  
 Duluth, MN 55802  
**Database(s) :** [PWS, PWS ENF] (**cont.**)

**Envirosite ID:** 3546637  
**EPA ID:** N/R

## PWS ENF (**cont.**)

### Violation Details

RTC Enforcement ID : 345239  
 Violation ID : 36058  
 Submission Year : 2021  
 Violation First Reported Date : 2008-08-28  
 Contaminant Name : Coliform (TCR)  
 Rule Family : Total Coliform Rules  
 Rule Group : Microbials  
 Rule Name : Total Coliform Rule  
 Violation Type : Maximum Contaminant Level Violation, Monthly (TCR)  
 Is Health Based : Y  
 Is Major Violation : N/R  
 Severity Indicator Count : N/R  
 Public Notification Tier : 2  
 Address Line 1 : 6008 London Road, Duluth, 55802  
 Address Line 2 : N/R  
 Compliance Status : Returned to Compliance  
 RTC Date : 2008-11-12  
 Enforcement Action Description : State Compliance achieved  
 Admin Name : N/R  
 Email Address : N/R

RTC Enforcement ID : 606962  
 Violation ID : 50650  
 Submission Year : 2021  
 Violation First Reported Date : 2016-03-01  
 Contaminant Name : Coliform (TCR)  
 Rule Family : Total Coliform Rules  
 Rule Group : Microbials  
 Rule Name : Total Coliform Rule  
 Violation Type : Maximum Contaminant Level Violation, Monthly (TCR)  
 Is Health Based : Y  
 Is Major Violation : N/R  
 Severity Indicator Count : N/R  
 Public Notification Tier : 2  
 Address Line 1 : 6008 London Road, Duluth, 55802  
 Address Line 2 : N/R  
 Compliance Status : Returned to Compliance  
 RTC Date : 2016-05-18  
 Enforcement Action Description : State Compliance achieved  
 Admin Name : N/R  
 Email Address : N/R



Map Id: A8  
 Direction: N  
 Distance: 0.391 mi., 2065 ft.  
 Elevation: 839 ft.  
 Relative: Higher

**Site Name :** 559218  
 N/R  
 MN  
**Database(s) :** [WELLS - MN]

**EnviroSite ID:** 47236565  
**EPA ID:** N/R

## WELLS - MN

Well Name :	MW-3
Status :	Sealed
Use :	Monitor Well
County :	69
Section/Township/Range :	SEC 4, TWP 50, RNG 13W
Sub Section :	BABBD
MGS Quad C :	243C
Elevation :	839.0
Elevation MC :	L1
Loc MC :	S
Loc SRC :	MGS
Data SRC :	M0142
Depth Drill :	12.0
Depth Comp :	12.0
Date Drill :	1995-03-28
Case Diameter :	2.0
Case Depth :	5.0
Grout :	Y
Pollut Dst :	40
Pollut Dir :	NE
Pollut Type :	Volatile organic compounds
Strat Date :	2008-09-10
Strat Update :	2017-03-08
Strat SRC :	MGS
Strat Geol :	BB
Strat MC :	Q
Depth 2 BDRK :	0.0
First BDRK :	N/R
Last Strat :	QCUU
OH Top Unit :	QCUU
OH Bot Unit :	QCUU
Aquifer :	QWTA
Cuttings :	N/R
Core :	N/R
BH Geo Phys :	N/R
Geo Chem :	N/R
Water Chem :	N/R
OB Well :	N/R
SWL :	Y
DH Video :	N/R
Input SRC :	MGS
Unused :	N
Entry Date :	2008-09-10
Update Date :	2020-09-06
Geoc Type :	N/R
GCM Code :	DS2
Geoc SRC :	MGS
Geoc PRG :	CWI
Geoc Entry :	619079.0
Geoc Date :	2016-03-16
Geoc Update EN :	0.0
Geoc Update Date :	0
Received Date :	0
SWL Count :	1.0
SWL Date :	1995-03-28
SWL Average Measure :	9.0
SWL Average Elevation :	830.0



Map Id: A8  
 Direction: N  
 Distance: 0.391 mi., 2065 ft.  
 Elevation: 839 ft.  
 Relative: Higher

**Site Name :** 559218  
 N/R  
 MN  
**Database(s) :** [WELLS - MN] (**cont.**)

**Envirosite ID:** 47236565  
**EPA ID:** N/R

## WELLS - MN (**cont.**)

BDRK Elevation : 0.0  
 OH Top Elevation : 834.0  
 OH Bot Elevation : 827.0  
 Bot Hole Elevation : 827.0  
 Last Date in Agency List : 2022-04-20

Map Id: B9  
 Direction: WSW  
 Distance: 0.408 mi., 2157 ft.  
 Elevation: 658 ft.  
 Relative: Lower

**Site Name :** 710311  
 N/R  
 MN  
**Database(s) :** [WELLS - MN]

**Envirosite ID:** 47344674  
**EPA ID:** N/R

## WELLS - MN

Well Name : MW-4  
 Status : Sealed  
 Use : Monitor Well  
 County : 69  
 Section/Township/Range : SEC 5, TWP 50, RNG 13W  
 Sub Section : DCDADD  
 MGS Quad C : 244D  
 Elevation : 658.0  
 Elevation MC : L1  
 Loc MC : G  
 Loc SRC : MDH  
 Data SRC : 1381  
 Depth Drill : 16.0  
 Depth Comp : 16.0  
 Date Drill : 2008-01-14  
 Case Diameter : 2.0  
 Case Depth : 6.0  
 Grout : Y  
 Pollut Dst : 20  
 Pollut Dir : W  
 Pollut Type : Volatile organic compounds  
 Strat Date : 2008-09-10  
 Strat Update : 2021-03-24  
 Strat SRC : MGS  
 Strat Geol : BB  
 Strat MC : Q  
 Depth 2 BDRK : 0.0  
 First BDRK : N/R  
 Last Strat : QNUB  
 OH Top Unit : QPUU  
 OH Bot Unit : QNUB  
 Aquifer : QWTA  
 Cuttings : N/R  
 Core : N/R  
 BH Geo Phys : N/R  
 Geo Chem : N/R  
 Water Chem : N/R



Map Id: B9  
 Direction: WSW  
 Distance: 0.408 mi., 2157 ft.  
 Elevation: 658 ft.  
 Relative: Lower

**Site Name :** 710311  
 N/R  
 MN  
**Database(s) :** [WELLS - MN] (*cont.*)

**Envirosite ID:** 47344674  
**EPA ID:** N/R

WELLS - MN (*cont.*)

OB Well :	N/R
SWL :	Y
DH Video :	N/R
Input SRC :	MGS
Unused :	N
Entry Date :	2008-09-10
Update Date :	2021-03-24
Geoc Type :	WW
GCM Code :	G60
Geoc SRC :	MDH
Geoc PRG :	WM
Geoc Entry :	2185005.0
Geoc Date :	2009-06-05
Geoc Update EN :	0.0
Geoc Update Date :	0
Received Date :	2008-01-24
SWL Count :	1.0
SWL Date :	2008-01-16
SWL Average Measure :	8.89
SWL Average Elevation :	649.11
BDRK Elevation :	0.0
OH Top Elevation :	652.0
OH Bot Elevation :	642.0
Bot Hole Elevation :	642.0
Last Date in Agency List :	2022-04-20

Map Id: B10  
 Direction: WSW  
 Distance: 0.410 mi., 2167 ft.  
 Elevation: 659 ft.  
 Relative: Lower

**Site Name :** 710307  
 N/R  
 MN  
**Database(s) :** [WELLS - MN]

**Envirosite ID:** 47497741  
**EPA ID:** N/R

## WELLS - MN

Well Name :	MW-1
Status :	Sealed
Use :	Monitor Well
County :	69
Section/Township/Range :	SEC 5, TWP 50, RNG 13W
Sub Section :	DCDADA
MGS Quad C :	244D
Elevation :	659.0
Elevation MC :	L1
Loc MC :	G
Loc SRC :	MDH
Data SRC :	1381
Depth Drill :	15.0
Depth Comp :	15.0
Date Drill :	2008-01-10
Case Diameter :	2.0
Case Depth :	5.0



Map Id: B10  
 Direction: WSW  
 Distance: 0.410 mi., 2167 ft.  
 Elevation: 659 ft.  
 Relative: Lower

**Site Name :** 710307  
 N/R  
 MN  
**Database(s) :** [WELLS - MN] (**cont.**)

**Envirosite ID:** 47497741  
**EPA ID:** N/R

## WELLS - MN (**cont.**)

Grout :	Y
Pollut Dst :	10
Pollut Dir :	S
Pollut Type :	Volatile organic compounds
Strat Date :	2008-09-10
Strat Update :	2015-09-22
Strat SRC :	MGS
Strat Geol :	BB
Strat MC :	Q
Depth 2 BDRK :	0.0
First BDRK :	N/R
Last Strat :	QIUB
OH Top Unit :	QPUU
OH Bot Unit :	QIUB
Aquifer :	QWTA
Cuttings :	N/R
Core :	N/R
BH Geo Phys :	N/R
Geo Chem :	N/R
Water Chem :	N/R
OB Well :	N/R
SWL :	Y
DH Video :	N/R
Input SRC :	MGS
Unused :	N
Entry Date :	2008-09-10
Update Date :	2015-09-22
Geoc Type :	WW
GCM Code :	G60
Geoc SRC :	MDH
Geoc PRG :	WM
Geoc Entry :	2185005.0
Geoc Date :	2009-06-05
Geoc Update EN :	0.0
Geoc Update Date :	0
Received Date :	2008-01-24
SWL Count :	1.0
SWL Date :	2008-01-16
SWL Average Measure :	8.75
SWL Average Elevation :	650.25
BDRK Elevation :	0.0
OH Top Elevation :	654.0
OH Bot Elevation :	644.0
Bot Hole Elevation :	644.0
Last Date in Agency List :	2022-04-20



Map Id: B11  
 Direction: WSW  
 Distance: 0.419 mi., 2215 ft.  
 Elevation: 658 ft.  
 Relative: Lower

**Site Name :** 710309  
 N/R  
 MN  
**Database(s) :** [WELLS - MN]

**Envirosite ID:** 47204184  
**EPA ID:** N/R

## WELLS - MN

Well Name :	MW-3
Status :	Sealed
Use :	Monitor Well
County :	69
Section/Township/Range :	SEC 5, TWP 50, RNG 13W
Sub Section :	DCDADD
MGS Quad C :	244D
Elevation :	657.0
Elevation MC :	L1
Loc MC :	G
Loc SRC :	MDH
Data SRC :	1381
Depth Drill :	33.0
Depth Comp :	15.0
Date Drill :	2008-01-10
Case Diameter :	2.0
Case Depth :	5.0
Grout :	Y
Pollut Dst :	0
Pollut Dir :	N/R
Pollut Type :	N/R
Strat Date :	2008-09-10
Strat Update :	2015-09-22
Strat SRC :	MGS
Strat Geol :	BB
Strat MC :	Q
Depth 2 BDRK :	0.0
First BDRK :	N/R
Last Strat :	QIUB
OH Top Unit :	QPUU
OH Bot Unit :	QIUB
Aquifer :	QWTA
Cuttings :	N/R
Core :	N/R
BH Geo Phys :	N/R
Geo Chem :	N/R
Water Chem :	N/R
OB Well :	N/R
SWL :	Y
DH Video :	N/R
Input SRC :	MGS
Unused :	N
Entry Date :	2008-09-10
Update Date :	2015-09-22
Geoc Type :	WW
GCM Code :	G60
Geoc SRC :	MDH
Geoc PRG :	WM
Geoc Entry :	2185005.0
Geoc Date :	2009-06-05
Geoc Update EN :	0.0
Geoc Update Date :	0
Received Date :	2008-01-24
SWL Count :	1.0
SWL Date :	2008-01-16
SWL Average Measure :	9.08
SWL Average Elevation :	647.92



Map Id: B11  
 Direction: WSW  
 Distance: 0.419 mi., 2215 ft.  
 Elevation: 658 ft.  
 Relative: Lower

**Site Name :** 710309  
 N/R  
 MN  
**Database(s) :** [WELLS - MN] (**cont.**)

**Envirosite ID:** 47204184  
**EPA ID:** N/R

WELLS - MN (**cont.**)

BDRK Elevation : 0.0  
 OH Top Elevation : 652.0  
 OH Bot Elevation : 642.0  
 Bot Hole Elevation : 624.0  
 Last Date in Agency List : 2022-04-20

Map Id: B12  
 Direction: WSW  
 Distance: 0.422 mi., 2227 ft.  
 Elevation: 657 ft.  
 Relative: Lower

**Site Name :** 710312  
 N/R  
 MN  
**Database(s) :** [WELLS - MN]

**Envirosite ID:** 47288651  
**EPA ID:** N/R

## WELLS - MN

Well Name : MW-5  
 Status : Sealed  
 Use : Monitor Well  
 County : 69  
 Section/Township/Range : SEC 5, TWP 50, RNG 13W  
 Sub Section : DCDDAA  
 MGS Quad C : 244D  
 Elevation : 656.0  
 Elevation MC : L1  
 Loc MC : G  
 Loc SRC : MDH  
 Data SRC : 1381  
 Depth Drill : 15.0  
 Depth Comp : 15.0  
 Date Drill : 2008-01-11  
 Case Diameter : 2.0  
 Case Depth : 5.0  
 Grout : Y  
 Pollut Dst : 20  
 Pollut Dir : N  
 Pollut Type : Volatile organic compounds  
 Strat Date : 2008-09-10  
 Strat Update : 2019-12-11  
 Strat SRC : MGS  
 Strat Geol : BB  
 Strat MC : Q  
 Depth 2 BDRK : 0.0  
 First BDRK : N/R  
 Last Strat : QIUB  
 OH Top Unit : QPUU  
 OH Bot Unit : QIUB  
 Aquifer : QWTA  
 Cuttings : N/R  
 Core : N/R  
 BH Geo Phys : N/R  
 Geo Chem : N/R  
 Water Chem : N/R



Map Id: B12  
Direction: WSW  
Distance: 0.422 mi., 2227 ft.  
Elevation: 657 ft.  
Relative: Lower

**Site Name :** 710312  
N/R  
MN  
**Database(s) :** [WELLS - MN] (*cont.*)

**Envirosite ID:** 47288651  
**EPA ID:** N/R

WELLS - MN (*cont.*)

OB Well :	N/R
SWL :	Y
DH Video :	N/R
Input SRC :	MGS
Unused :	N
Entry Date :	2008-09-10
Update Date :	2019-12-11
Geoc Type :	WW
GCM Code :	G60
Geoc SRC :	MDH
Geoc PRG :	WM
Geoc Entry :	2185005.0
Geoc Date :	2009-06-05
Geoc Update EN :	0.0
Geoc Update Date :	0
Received Date :	2008-01-24
SWL Count :	1.0
SWL Date :	2008-01-16
SWL Average Measure :	9.16
SWL Average Elevation :	646.84
BDRK Elevation :	0.0
OH Top Elevation :	651.0
OH Bot Elevation :	641.0
Bot Hole Elevation :	641.0
Last Date in Agency List :	2022-04-20

Map Id: B13  
Direction: WSW  
Distance: 0.423 mi., 2234 ft.  
Elevation: 657 ft.  
Relative: Lower

**Site Name :** 710310  
N/R  
MN  
**Database(s) :** [WELLS - MN]

**Envirosite ID:** 47449995  
**EPA ID:** N/R

## WELLS - MN

Well Name :	MW-3D
Status :	Sealed
Use :	Monitor Well
County :	69
Section/Township/Range :	SEC 5, TWP 50, RNG 13W
Sub Section :	DCDADD
MGS Quad C :	244D
Elevation :	657.0
Elevation MC :	L1
Loc MC :	G
Loc SRC :	MDH
Data SRC :	1381
Depth Drill :	33.0
Depth Comp :	32.0
Date Drill :	2008-01-11
Case Diameter :	2.0
Case Depth :	27.0



Map Id: B13  
 Direction: WSW  
 Distance: 0.423 mi., 2234 ft.  
 Elevation: 657 ft.  
 Relative: Lower

**Site Name :** 710310  
 N/R  
 MN  
**Database(s) :** [WELLS - MN] (**cont.**)

**EnviroSite ID:** 47449995  
**EPA ID:** N/R

## WELLS - MN (**cont.**)

Grout :	Y
Pollut Dst :	0
Pollut Dir :	N/R
Pollut Type :	Volatile organic compounds
Strat Date :	0
Strat Update :	2015-09-22
Strat SRC :	MGS
Strat Geol :	BB
Strat MC :	Q
Depth 2 BDRK :	0.0
First BDRK :	N/R
Last Strat :	QIUB
OH Top Unit :	QIUB
OH Bot Unit :	QIUB
Aquifer :	QWTA
Cuttings :	N/R
Core :	N/R
BH Geo Phys :	N/R
Geo Chem :	N/R
Water Chem :	N/R
OB Well :	N/R
SWL :	Y
DH Video :	N/R
Input SRC :	MGS
Unused :	N
Entry Date :	2008-09-10
Update Date :	2015-09-22
Geoc Type :	WW
GCM Code :	G60
Geoc SRC :	MDH
Geoc PRG :	WM
Geoc Entry :	2185005.0
Geoc Date :	2009-06-05
Geoc Update EN :	0.0
Geoc Update Date :	0
Received Date :	2008-01-24
SWL Count :	1.0
SWL Date :	2008-01-16
SWL Average Measure :	8.9
SWL Average Elevation :	648.1
BDRK Elevation :	0.0
OH Top Elevation :	630.0
OH Bot Elevation :	625.0
Bot Hole Elevation :	624.0
Last Date in Agency List :	2022-04-20



Map Id: B14  
 Direction: WSW  
 Distance: 0.427 mi., 2256 ft.  
 Elevation: 655 ft.  
 Relative: Lower

**Site Name :** 710313  
 N/R  
 MN  
**Database(s) :** [WELLS - MN]

**Envirosite ID:** 47258994  
**EPA ID:** N/R

## WELLS - MN

Well Name :	MW-6
Status :	Sealed
Use :	Monitor Well
County :	69
Section/Township/Range :	SEC 5, TWP 50, RNG 13W
Sub Section :	DCDDAA
MGS Quad C :	244D
Elevation :	652.0
Elevation MC :	L1
Loc MC :	G
Loc SRC :	MDH
Data SRC :	1381
Depth Drill :	14.0
Depth Comp :	14.0
Date Drill :	2008-01-11
Case Diameter :	2.0
Case Depth :	4.0
Grout :	Y
Pollut Dst :	40
Pollut Dir :	N
Pollut Type :	Volatile organic compounds
Strat Date :	0
Strat Update :	2015-09-22
Strat SRC :	MGS
Strat Geol :	BB
Strat MC :	Q
Depth 2 BDRK :	0.0
First BDRK :	N/R
Last Strat :	QPUB
OH Top Unit :	QPUB
OH Bot Unit :	QPUB
Aquifer :	QWTA
Cuttings :	N/R
Core :	N/R
BH Geo Phys :	N/R
Geo Chem :	N/R
Water Chem :	N/R
OB Well :	N/R
SWL :	Y
DH Video :	N/R
Input SRC :	MGS
Unused :	N
Entry Date :	2008-09-10
Update Date :	2015-09-22
Geoc Type :	WW
GCM Code :	G60
Geoc SRC :	MDH
Geoc PRG :	WM
Geoc Entry :	2185005.0
Geoc Date :	2009-06-05
Geoc Update EN :	0.0
Geoc Update Date :	0
Received Date :	2008-01-24
SWL Count :	1.0
SWL Date :	2008-01-16
SWL Average Measure :	4.6
SWL Average Elevation :	647.4



Map Id: B14  
Direction: WSW  
Distance: 0.427 mi., 2256 ft.  
Elevation: 655 ft.  
Relative: Lower

**Site Name :** 710313  
N/R  
MN  
**Database(s) :** [WELLS - MN] (*cont.*)

**Envirosite ID:** 47258994  
**EPA ID:** N/R

**WELLS - MN (*cont.*)**

BDRK Elevation : 0.0  
OH Top Elevation : 648.0  
OH Bot Elevation : 638.0  
Bot Hole Elevation : 638.0  
Last Date in Agency List : 2022-04-20

Map Id: B15  
Direction: WSW  
Distance: 0.428 mi., 2260 ft.  
Elevation: 657 ft.  
Relative: Lower

**Site Name :** 710308  
N/R  
MN  
**Database(s) :** [WELLS - MN]

**Envirosite ID:** 47153988  
**EPA ID:** N/R

**WELLS - MN**

Well Name : MW-2  
Status : Sealed  
Use : Monitor Well  
County : 69  
Section/Township/Range : SEC 5, TWP 50, RNG 13W  
Sub Section : DCDDAB  
MGS Quad C : 244D  
Elevation : 656.0  
Elevation MC : L1  
Loc MC : G  
Loc SRC : MDH  
Data SRC : 1381  
Depth Drill : 19.0  
Depth Comp : 15.0  
Date Drill : 2008-01-11  
Case Diameter : 2.0  
Case Depth : 5.0  
Grout : Y  
Pollut Dst : 20  
Pollut Dir : E  
Pollut Type : Volatile organic compounds  
Strat Date : 2008-09-10  
Strat Update : 2015-09-22  
Strat SRC : MGS  
Strat Geol : BB  
Strat MC : Q  
Depth 2 BDRK : 0.0  
First BDRK : N/R  
Last Strat : QIUB  
OH Top Unit : QJUU  
OH Bot Unit : QIUB  
Aquifer : QWTA  
Cuttings : N/R  
Core : N/R  
BH Geo Phys : N/R  
Geo Chem : N/R  
Water Chem : N/R



Map Id: B15  
 Direction: WSW  
 Distance: 0.428 mi., 2260 ft.  
 Elevation: 657 ft.  
 Relative: Lower

**Site Name :** 710308  
 N/R  
 MN  
**Database(s) :** [WELLS - MN] (**cont.**)

**Envirosite ID:** 47153988  
**EPA ID:** N/R

## WELLS - MN (**cont.**)

OB Well :	N/R
SWL :	Y
DH Video :	N/R
Input SRC :	MGS
Unused :	N
Entry Date :	2008-09-10
Update Date :	2015-09-22
Geoc Type :	WW
GCM Code :	G60
Geoc SRC :	MDH
Geoc PRG :	WM
Geoc Entry :	2185005.0
Geoc Date :	2009-06-05
Geoc Update EN :	0.0
Geoc Update Date :	0
Received Date :	2008-01-24
SWL Count :	1.0
SWL Date :	2008-01-16
SWL Average Measure :	7.18
SWL Average Elevation :	648.82
BDRK Elevation :	0.0
OH Top Elevation :	651.0
OH Bot Elevation :	641.0
Bot Hole Elevation :	637.0
Last Date in Agency List :	2022-04-20

Map Id: 16  
 Direction: WSW  
 Distance: 0.793 mi., 4189 ft.  
 Elevation: 697 ft.  
 Relative: Higher

**Site Name :** LIVING STONES FELLOWSHIP ASSEMBLY  
 OF GOD | Livingstone Church |  
 MN5690328  
 5202 COLORADO ST  
 Duluth | DULUTH, MN 55804  
**Database(s) :** [PWS, PWS ENF]

**Envirosite ID:** 3446253  
**EPA ID:** N/R

## PWS

Facility Address : 5202 Colorado Street, Duluth, MN 55804

PWS ID :	MN5690328
PWS Type :	Transient non-community system
PWS Name :	Anchor Point Fredenberg
Activity Status :	Active
Primary Source :	Ground water
Submission Year :	2021
Submission Year Quarter :	2021Q4
Population Served Count :	125
Service Connections Count :	1
Population Category 2 :	<10,000
Population Category 3 :	<=3300
Population Category 4 :	<10K



Map Id: 16  
 Direction: WSW  
 Distance: 0.793 mi., 4189 ft.  
 Elevation: 697 ft.  
 Relative: Higher

**Site Name :** LIVING STONES FELLOWSHIP ASSEMBLY  
 OF GOD | Livingstone Church |  
 MN5690328  
 5202 COLORADO ST  
 Duluth | DULUTH, MN 55804  
**Database(s) :** [PWS, PWS ENF] (**cont.**)

**EnviroSite ID:** 3446253  
**EPA ID:** N/R

## PWS (**cont.**)

Population Category 5 : <=500  
 Population Category 11 : 101-500  
 Submission Quarter : 4  
 Submission Status Code : Y  
 First Reported Date : 1995-12-14  
 Last Reported Date : 2021-12-02  
 Deactivation Date : N/R  
 GW or SW : Groundwater  
 Is Grant Eligible : Y  
 Is Outstanding Performer : N/R  
 Is School or Daycare : N  
 Is Source Water Protected : N/R  
 Primacy Agency : Minnesota  
 Primacy Type : State  
 Org Name : Anchor Point Fredenberg  
 EPA Region : Region 5  
 Admin Name : N/R  
 Owner Type : Private  
 Phone Number : N/R  
 Phone Ext Number : N/R  
 Alt Phone Number : N/R  
 Email Address : N/R  
 Fax Number : N/R  
 Is Wholesaler : N  
 LT2 Schedule Category : N/R  
 NPM Candidate : Y  
 CDS ID : 9999  
 DBPR Schedule Category : N/R  
 Outstanding Performer Date : N/R  
 Season Begin Date : 01-01  
 Season End Date : 12-31  
 Source Water Protection Date : N/R  
 Seasonal Startup System : N/R  
 Reduced Monitoring Begin Date : 2020-01-01  
 Reduced Monitoring End Date : N/R  
 Reduced RTCR Monitoring : Annual  
 Last Date in Agency List : 2022-02-03

PWS ID : MN5380093  
 PWS Type : Transient non-community system  
 PWS Name : Anchor Point Two Harbors  
 Activity Status : Active  
 Primary Source : Ground water  
 Submission Year : 2021  
 Submission Year Quarter : 2021Q4  
 Population Served Count : 25  
 Service Connections Count : 1  
 Population Category 2 : <10,000  
 Population Category 3 : <=3300  
 Population Category 4 : <10K  
 Population Category 5 : <=500  
 Population Category 11 : <=100  
 Submission Quarter : 4  
 Submission Status Code : Y



Map Id: 16  
 Direction: WSW  
 Distance: 0.793 mi., 4189 ft.  
 Elevation: 697 ft.  
 Relative: Higher

**Site Name :** LIVING STONES FELLOWSHIP ASSEMBLY  
 OF GOD | Livingstone Church |  
 MN5690328  
 5202 COLORADO ST  
 Duluth | DULUTH, MN 55804  
**Database(s) :** [PWS, PWS ENF] (**cont.**)

**EnviroSite ID:** 3446253  
**EPA ID:** N/R

## PWS (**cont.**)

First Reported Date :	1995-12-14
Last Reported Date :	2021-12-02
Deactivation Date :	N/R
GW or SW :	Groundwater
Is Grant Eligible :	Y
Is Outstanding Performer :	N/R
Is School or Daycare :	N
Is Source Water Protected :	N/R
Primacy Agency :	Minnesota
Primacy Type :	State
Org Name :	Anchor Point Two Harbors
EPA Region :	Region 5
Admin Name :	N/R
Owner Type :	Private
Phone Number :	N/R
Phone Ext Number :	N/R
Alt Phone Number :	N/R
Email Address :	N/R
Fax Number :	N/R
Is Wholesaler :	N
LT2 Schedule Category :	N/R
NPM Candidate :	Y
CDS ID :	9999
DBPR Schedule Category :	N/R
Outstanding Performer Date :	N/R
Season Begin Date :	01-01
Season End Date :	12-31
Source Water Protection Date :	N/R
Seasonal Startup System :	N/R
Reduced Monitoring Begin Date :	2016-04-01
Reduced Monitoring End Date :	N/R
Reduced RTCR Monitoring :	Annual
Last Date in Agency List :	2022-02-03

## PWS ENF

Facility Address : 5202 Colorado Street, Duluth, MN 55804

## Site Details

PWS ID :	MN5690328
PWS Name :	Anchor Point Fredenberg
EPA Region :	Region 5
Primacy Agency :	Minnesota
PWS Type :	Transient non-community system
Primacy Type :	State
Primary Source :	Ground water
Activity Status :	Active
Deactivation Date :	N/R
Owner Type :	Private
Phone Number :	N/R
Last Date in Agency List :	2022-03-28



Map Id: 16  
 Direction: WSW  
 Distance: 0.793 mi., 4189 ft.  
 Elevation: 697 ft.  
 Relative: Higher

**Site Name :** LIVING STONES FELLOWSHIP ASSEMBLY  
 OF GOD | Livingstone Church |  
 MN5690328  
 5202 COLORADO ST  
 Duluth | DULUTH, MN 55804  
**Database(s) :** [PWS, PWS ENF] **(cont.)**

**EnviroSite ID:** 3446253  
**EPA ID:** N/R

## PWS ENF (cont.)

### Violation Details

RTC Enforcement ID : 106556  
 Violation ID : 10110  
 Submission Year : 2021  
 Violation First Reported Date : 2004-11-17  
 Contaminant Name : Coliform (TCR)  
 Rule Family : Total Coliform Rules  
 Rule Group : Microbials  
 Rule Name : Total Coliform Rule  
 Violation Type : Maximum Contaminant Level Violation, Monthly (TCR)  
 Is Health Based : Y  
 Is Major Violation : N/R  
 Severity Indicator Count : N/R  
 Public Notification Tier : 2  
 Address Line 1 : 5202 Colorado Street, Duluth, 55804  
 Address Line 2 : N/R  
 Compliance Status : Returned to Compliance  
 RTC Date : 2004-06-29  
 Enforcement Action Description : State Compliance achieved  
 Admin Name : N/R  
 Email Address : N/R

RTC Enforcement ID : 272975  
 Violation ID : 33142  
 Submission Year : 2021  
 Violation First Reported Date : 2007-02-16  
 Contaminant Name : Coliform (TCR)  
 Rule Family : Total Coliform Rules  
 Rule Group : Microbials  
 Rule Name : Total Coliform Rule  
 Violation Type : Maximum Contaminant Level Violation, Monthly (TCR)  
 Is Health Based : Y  
 Is Major Violation : N/R  
 Severity Indicator Count : N/R  
 Public Notification Tier : 2  
 Address Line 1 : 5202 Colorado Street, Duluth, 55804  
 Address Line 2 : N/R  
 Compliance Status : Returned to Compliance  
 RTC Date : 2007-01-30  
 Enforcement Action Description : State Compliance achieved  
 Admin Name : N/R  
 Email Address : N/R



Map Id: 17  
 Direction: NW  
 Distance: 0.839 mi., 4432 ft.  
 Elevation: 826 ft.  
 Relative: Higher

**Site Name :** MN5690069  
 2940 SEVEN BRIDGES ROAD  
 DULUTH, MN 55804  
**Database(s) :** [PWS]

**Envirosite ID:** 3544472  
**EPA ID:** N/R

PWS

Facility Address : 2940 SEVEN BRIDGES ROAD, DULUTH, MN 55804

PWS ID : MN5690069  
 PWS Type : Transient non-community system  
 PWS Name : LAKE VIEW WINTER SPORTS INC  
 Activity Status : Inactive  
 Primary Source : Ground water  
 Submission Year : 2021  
 Submission Year Quarter : 2021Q4  
 Population Served Count : 100  
 Service Connections Count : 0  
 Population Category 2 : <10,000  
 Population Category 3 : <=3300  
 Population Category 4 : <10K  
 Population Category 5 : <=500  
 Population Category 11 : <=100  
 Submission Quarter : 4  
 Submission Status Code : Y  
 First Reported Date : 1981-01-23  
 Last Reported Date : 1995-12-14  
 Deactivation Date : 1995-12-01  
 GW or SW : Groundwater  
 Is Grant Eligible : N  
 Is Outstanding Performer : N/R  
 Is School or Daycare : N  
 Is Source Water Protected : N/R  
 Primacy Agency : Minnesota  
 Primacy Type : State  
 Org Name : N/R  
 EPA Region : Region 5  
 Admin Name : LAKE VIEW WINTER SPORTS INC  
 Owner Type : Private  
 Phone Number : 218-525-9940  
 Phone Ext Number : N/R  
 Alt Phone Number : N/R  
 Email Address : N/R  
 Fax Number : N/R  
 Is Wholesaler : N  
 LT2 Schedule Category : N/R  
 NPM Candidate : N  
 CDS ID : N/R  
 DBPR Schedule Category : N/R  
 Outstanding Performer Date : N/R  
 Season Begin Date : 01-01  
 Season End Date : 12-31  
 Source Water Protection Date : N/R  
 Seasonal Startup System : N/R  
 Reduced Monitoring Begin Date : N/R  
 Reduced Monitoring End Date : N/R  
 Reduced RTCR Monitoring : N/R  
 Last Date in Agency List : 2022-02-03



Map Id: 18  
 Direction: NE  
 Distance: 0.858 mi., 4531 ft.  
 Elevation: 823 ft.  
 Relative: Higher

**Site Name :** 661305  
 N/R  
 MN  
**Database(s) :** [WELLS - MN]

**EnviroSite ID:** 47201703  
**EPA ID:** N/R

## WELLS - MN

Well Name :	OLSON, WAYNE
Status :	Active
Use :	Domestic
County :	69
Section/Township/Range :	SEC 33, TWP 51, RNG 13W
Sub Section :	DACBAD
MGS Quad C :	243C
Elevation :	820.0
Elevation MC :	T
Loc MC :	5
Loc SRC :	MGS
Data SRC :	09199
Depth Drill :	405.0
Depth Comp :	405.0
Date Drill :	2001-11-05
Case Diameter :	6.0
Case Depth :	20.3
Grout :	Y
Pollut Dst :	125
Pollut Dir :	NW
Pollut Type :	Septic tank/drain field
Strat Date :	2002-02-25
Strat Update :	2019-11-26
Strat SRC :	MGS
Strat Geol :	ARB
Strat MC :	Q
Depth 2 BDRK :	11.0
First BDRK :	PMBL
Last Strat :	PMUD
OH Top Unit :	PMBL
OH Bot Unit :	PMUD
Aquifer :	PMUD
Cuttings :	N/R
Core :	N/R
BH Geo Phys :	N/R
Geo Chem :	N/R
Water Chem :	N/R
OB Well :	N/R
SWL :	Y
DH Video :	N/R
Input SRC :	MDH
Unused :	N
Entry Date :	2002-02-25
Update Date :	2019-11-26
Geoc Type :	WW
GCM Code :	DS1
Geoc SRC :	MGS
Geoc PRG :	CWI
Geoc Entry :	619008.0
Geoc Date :	2007-09-26
Geoc Update EN :	0.0
Geoc Update Date :	0
Received Date :	0
SWL Count :	1.0
SWL Date :	2001-11-05
SWL Average Measure :	125.0
SWL Average Elevation :	695.0



Map Id: 18  
 Direction: NE  
 Distance: 0.858 mi., 4531 ft.  
 Elevation: 823 ft.  
 Relative: Higher

**Site Name :** 661305  
 N/R  
 MN  
**Database(s) :** [WELLS - MN] (**cont.**)

**EnviroSite ID:** 47201703  
**EPA ID:** N/R

## WELLS - MN (**cont.**)

BDRK Elevation : 809.0  
 OH Top Elevation : 799.7  
 OH Bot Elevation : 415.0  
 Bot Hole Elevation : 415.0  
 Last Date in Agency List : 2022-04-20

Map Id: 19  
 Direction: WSW  
 Distance: 0.928 mi., 4901 ft.  
 Elevation: 642 ft.  
 Relative: Lower

**Site Name :** 636600  
 N/R  
 MN  
**Database(s) :** [WELLS - MN]

**EnviroSite ID:** 47234257  
**EPA ID:** N/R

## WELLS - MN

Well Name : NEIMI, GERALD  
 Status : Sealed  
 Use : Monitor Well  
 County : 69  
 Section/Township/Range : SEC 8, TWP 50, RNG 13W  
 Sub Section : BDBAAD  
 MGS Quad C : 244D  
 Elevation : 642.0  
 Elevation MC : L1  
 Loc MC : S  
 Loc SRC : MGS  
 Data SRC : M0013  
 Depth Drill : 31.0  
 Depth Comp : 30.5  
 Date Drill : 2000-09-27  
 Case Diameter : 6.0  
 Case Depth : 15.5  
 Grout : N  
 Pollut Dst : 0  
 Pollut Dir : N/R  
 Pollut Type : N/R  
 Strat Date : 2001-04-26  
 Strat Update : 2019-12-04  
 Strat SRC : MGS  
 Strat Geol : ARB  
 Strat MC : Q  
 Depth 2 BDRK : 16.0  
 First BDRK : PMUS  
 Last Strat : PMUS  
 OH Top Unit : PMUS  
 OH Bot Unit : PMUS  
 Aquifer : PMUS  
 Cuttings : N/R  
 Core : N/R  
 BH Geo Phys : N/R  
 Geo Chem : N/R  
 Water Chem : N/R



Map Id: 19  
 Direction: WSW  
 Distance: 0.928 mi., 4901 ft.  
 Elevation: 642 ft.  
 Relative: Lower

**Site Name :** 636600  
 N/R  
 MN  
**Database(s) :** [WELLS - MN] (**cont.**)

**EnviroSite ID:** 47234257  
**EPA ID:** N/R

WELLS - MN (**cont.**)

OB Well :	N/R
SWL :	Y
DH Video :	N/R
Input SRC :	MDH
Unused :	N
Entry Date :	2001-04-26
Update Date :	2019-12-04
Geoc Type :	N/R
GCM Code :	DS2
Geoc SRC :	MGS
Geoc PRG :	CWI
Geoc Entry :	619079.0
Geoc Date :	2016-03-16
Geoc Update EN :	0.0
Geoc Update Date :	0
Received Date :	2000-10-30
SWL Count :	1.0
SWL Date :	2000-09-27
SWL Average Measure :	13.6
SWL Average Elevation :	628.4
BDRK Elevation :	626.0
OH Top Elevation :	626.5
OH Bot Elevation :	611.5
Bot Hole Elevation :	611.0
Last Date in Agency List :	2022-04-20

Map Id: 20  
 Direction: NNE  
 Distance: 0.952 mi., 5026 ft.  
 Elevation: 954 ft.  
 Relative: Higher

**Site Name :** 636413  
 N/R  
 MN  
**Database(s) :** [WELLS - MN]

**EnviroSite ID:** 47159843  
**EPA ID:** N/R

## WELLS - MN

Well Name :	JOHNSON, TED
Status :	Active
Use :	Domestic
County :	69
Section/Township/Range :	SEC 33, TWP 51, RNG 13W
Sub Section :	BDDDAC
MGS Quad C :	243C
Elevation :	955.0
Elevation MC :	T
Loc MC :	1
Loc SRC :	MGS
Data SRC :	38026
Depth Drill :	350.0
Depth Comp :	350.0
Date Drill :	1999-11-12
Case Diameter :	6.0
Case Depth :	34.0



Map Id: 20  
 Direction: NNE  
 Distance: 0.952 mi., 5026 ft.  
 Elevation: 954 ft.  
 Relative: Higher

**Site Name :** 636413  
 N/R  
 MN  
**Database(s) :** [WELLS - MN] (**cont.**)

**Envirosite ID:** 47159843  
**EPA ID:** N/R

## WELLS - MN (**cont.**)

Grout :	Y
Pollut Dst :	50
Pollut Dir :	SW
Pollut Type :	Other
Strat Date :	2000-06-22
Strat Update :	2019-11-26
Strat SRC :	MGS
Strat Geol :	ARB
Strat MC :	Q
Depth 2 BDRK :	33.0
First BDRK :	PMBL
Last Strat :	PMUD
OH Top Unit :	PMBL
OH Bot Unit :	PMUD
Aquifer :	PMUD
Cuttings :	N/R
Core :	N/R
BH Geo Phys :	N/R
Geo Chem :	N/R
Water Chem :	N/R
OB Well :	N/R
SWL :	Y
DH Video :	N/R
Input SRC :	MDH
Unused :	N
Entry Date :	2000-03-02
Update Date :	2019-11-26
Geoc Type :	WW
GCM Code :	DS1
Geoc SRC :	MGS
Geoc PRG :	CWI
Geoc Entry :	619008.0
Geoc Date :	2007-09-26
Geoc Update EN :	0.0
Geoc Update Date :	0
Received Date :	0
SWL Count :	1.0
SWL Date :	1999-11-16
SWL Average Measure :	31.0
SWL Average Elevation :	924.0
BDRK Elevation :	922.0
OH Top Elevation :	921.0
OH Bot Elevation :	605.0
Bot Hole Elevation :	605.0
Last Date in Agency List :	2022-04-20



Map Id: 21  
 Direction: N  
 Distance: 0.999 mi., 5277 ft.  
 Elevation: 899 ft.  
 Relative: Higher

**Site Name :** 616153  
 N/R  
 MN  
**Database(s) :** [WELLS - MN]

**Envirosite ID:** 47501007  
**EPA ID:** N/R

## WELLS - MN

Well Name :	JOHNSON, DENNIS D.
Status :	Active
Use :	Domestic
County :	69
Section/Township/Range :	SEC 33, TWP 51, RNG 13W
Sub Section :	BDCBDB
MGS Quad C :	243C
Elevation :	910.0
Elevation MC :	T
Loc MC :	1
Loc SRC :	MGS
Data SRC :	69438
Depth Drill :	225.0
Depth Comp :	225.0
Date Drill :	1998-08-22
Case Diameter :	6.0
Case Depth :	21.0
Grout :	Y
Pollut Dst :	57
Pollut Dir :	S
Pollut Type :	Septic tank/drain field
Strat Date :	2001-02-19
Strat Update :	2019-11-26
Strat SRC :	MGS
Strat Geol :	ARB
Strat MC :	Q
Depth 2 BDRK :	12.0
First BDRK :	PMUS
Last Strat :	PMUD
OH Top Unit :	PMUS
OH Bot Unit :	PMUD
Aquifer :	PMUD
Cuttings :	N/R
Core :	N/R
BH Geo Phys :	N/R
Geo Chem :	N/R
Water Chem :	N/R
OB Well :	N/R
SWL :	Y
DH Video :	N/R
Input SRC :	MGS
Unused :	N
Entry Date :	1998-12-28
Update Date :	2019-11-26
Geoc Type :	WW
GCM Code :	DS1
Geoc SRC :	MGS
Geoc PRG :	CWI
Geoc Entry :	619008.0
Geoc Date :	2007-09-26
Geoc Update EN :	0.0
Geoc Update Date :	0
Received Date :	0
SWL Count :	1.0
SWL Date :	1998-08-24
SWL Average Measure :	27.0
SWL Average Elevation :	883.0



Map Id: 21  
Direction: N  
Distance: 0.999 mi., 5277 ft.  
Elevation: 899 ft.  
Relative: Higher

**Site Name :** 616153  
N/R  
MN  
**Database(s) :** [WELLS - MN] (**cont.**)

**Envirosite ID:** 47501007  
**EPA ID:** N/R

### WELLS - MN (**cont.**)

BDRK Elevation :	898.0
OH Top Elevation :	889.0
OH Bot Elevation :	685.0
Bot Hole Elevation :	685.0
Last Date in Agency List :	2022-04-20



**RADON DATA:**

STATE SOURCE: No Available Data

FEDERAL AREA RADON INFORMATION FOR: 55804

NUMBER OF SAMPLE SITES: 14

<b><u>Area:</u></b>	<b><u>Average Activity:</u></b>	<b><u>% &lt;4 pCi/L:</u></b>	<b><u>% 4-20 pCi/L:</u></b>	<b><u>% &gt;20 pCi/L:</u></b>
basement	1.9923 pCi/L	100%	0%	0%
first floor	7.2 pCi/L	0%	100%	0%

FEDERAL EPA RADON ZONE FOR ST. LOUIS COUNTY: Zone = 2

Note: Zone 1 indoor average level > 4 pCi/L

: Zone 2 indoor average level > = 2 pCi/L and <= 4 pCi/L

: Zone 3 indoor average < 2 pCi/L



## HIST PWS ENF

Historical Public Water Supply locations with Enforcement Violations

Environmental Protection Agency

(800) 426-4791

List of Safe Drinking Water Information Systems (SDWIS) with enforcement violations that are no longer in current agency list.

## NWIS

National Water Information Systems

United States Geological Society

(703) 648-5953

Information on all water resources for the United States. This database contains all current and historical data for the nation.

## PWS

Public Water Supply

Environmental Protection Agency

(800) 426-4791

Safe drinking water information Systems

## PWS ENF

Public Water Supply locations with Enforcement Violations

Environmental Protection Agency

(800) 426-4791

Safe drinking water information Systems with enforcement violations

## WELLS - MN

Water Well Locations

Minnesota Geological Survey

Water Well Locations

## FLOOD Q3

Flood data

Environmental Protection Agency

(202) 566-1667

Q3 Flood Data

## HYDROLOGIC UNIT

Hydrologic Unit Maps

USGS

The United States Geological Survey created a hierarchical system of hydrologic units originally called regions, sub-regions, accounting units, and cataloging units. Each unit was assigned a unique Hydrologic Unit Code (HUC). As first implemented the system had 21 regions, 221 subregions, 378 accounting units, and 2,264 cataloging units. Over time the system was changed and expanded. As of 2010 there are six levels in the hierarchy, represented by hydrologic unit codes from 2 to 12 digits long, called regions, subregions, basins, subbasins, watersheds, and subwatersheds. The table below describes the system's hydrologic unit levels and their characteristics, along with example names and codes.

## WETLANDS NWI

National Wetland Inventory

U.S. Fish and Wildlife Service

(703) 358-2171

Wetland Inventory for the United States



## SSURGO

Detailed Soil Data Map

Natural Resources Conservation Service: U.S. Department of Agriculture  
(202) 690-4985

Detailed Soil Data Map

## STATSGO & MUI

General Soil Data Map

Natural Resources Conservation Service: U.S. Department of Agriculture  
(202) 690-4985

General Soil Data Map

## USGS GEOLOGIC AGE

USGS Digital Data Series DDS

Natural Resources Conservation Service: U.S. Department of Agriculture  
(202) 690-4985

USGS Digital Data Series DDS: Geologic Age and Rock Stratigraphic Unit

## RADON

National Radon Database

U.S. Environmental Protection Agency

215-814-2469

A study of the EPA/State Residential Radon Survey and the National Residential Radon Survey.

## RADON EPA

RADON EPA

U.S. Environmental Protection Agency

215-814-2469

EPA list of Radon zones

## AIRPORT FACILITIES

Airport landing facilities

Federal Aviation Administration

(866) 835-5322

Airport landing facilities

## BASINS

Better Assessment Science Integrating point & Non-point Sources

U.S. Environmental Protection Agency

855-246-3642

Integrated geographical information system national watershed data and environmental assessment known as Better Assessment Science Integrating point & Non-point Sources

## DIGITAL OBSTACLE

Obstacles of interest to aviation users

Federal Aviation Administration

855-379-6518

The Digital Obstacle File describes all known obstacles of interest to aviation users in the U.S. with limited coverage of the Pacific the Caribbean Canada and Mexico. The obstacles are assigned unique numerical identifiers; accuracy codes and listed in order of ascending latitude within each state or area by FAA Region.



### EPICENTERS

National Geographical Data Center

National Geographical Data Center

303-497-6826

List of recent and historic earthquakes and information.

### FLOOD DFIRM

National Flood Hazard Layer Database

Federal Emergency Management Agency

The National Flood Hazard Layer Database (NFHL) is a computer database that contains the flood hazard map information from FEMA's Flood Map Modernization program. These map data are from Digital Flood Insurance Rate Map (DFIRM) databases and Letters of Map Revision.



## **Appendix D**

### **MPCA Files**





# Hazardous Waste License Application

Minnesota Pollution Control Agency, Metro District/Major Facilities, 520 Lafayette Road N, St. Paul, MN 55155

Office Use

Core/Active  
CD  
PM  
FP/MF  
SIC Code  
Tax ID

location address

mailing address

1. MND985692557
2. Duluth city of - Lester Golf
3. 1860 Lester River Rd  
Duluth, MN 55804
4. St. Louis

Chuck Faegre  
Duluth city of - Lester Golf  
5. 411 W 1st St Ste 313  
Duluth, MN 55802-1104-

6. 79
  7. Chuck Faegre
  8. 218/723-3373
- Generator Size: **Generation, VSQG**

9. Minnesota or Federal Tax ID#:

416005105



Check box and complete Parts 2 & 3, if applicable.

**Less than 10 gal (100 lbs)/year**



**Out of Business as of: (date)**

## Part 1 - General Information CORRECTIONS ONLY

1. Generator ID# \_\_\_\_\_

(If you updated the generator ID#, complete Part 1a on back.)

2. Company Name \_\_\_\_\_

3. Location Address \_\_\_\_\_

(If you updated the location address, complete Part 1b on back.)

4. Location County \_\_\_\_\_

5. Mailing Address \_\_\_\_\_

6. Business Type Description Check the box at right  
and complete Part 1c on back ONLY if the SIC code preprinted  
to the left (line 6) is incorrect or missing. ☐

7. Contact Person \_\_\_\_\_

(Contact person must sign in Part 3 on back.)

8. Telephone Number ( ) -

## Part 2 - Waste Stream Information for 2000

INSTRUCTIONS: Complete one form for each location. Fill out the shaded area for each waste produced during 2000. Put a line through wastes no longer produced. For wastes not preprinted below: if you are a Very Small Quantity Generator, add the wastes to the list after the last preprinted item. If you are a Large or Small Quantity Generator, complete a Management Plan Short Form for each new waste. See Application Instructions for details.

Inventory #	Waste Code (2- or 4-digit)	Name of Hazardous Waste	Amount Previously Reported	Mgmt Method	2000 Amount			Mgmt Method
					Write in the amount and check gallons or pounds at right.	Gal.	Lbs.	
		Wastes previously reported on 1999 report:						
001	05	PARTS WASHER SOLVENT	18 G	HH				
Add new or additional wastes below. Cross out wastes no longer produced.								
* no waste reported in 2000								

Complete; Sign in Part 3; Copy for your records; and **Return by Due Date: February 5, 2001**

OVER →



## General Information Explanations

Complete this section only if you have made changes to Part 1.

### Part 1a: Changes to line 1, Generator ID#

Please indicate why the generator ID# was corrected:

- ☐ Duplicate ID#s for the same site (*Be sure to verify that location addresses are the same*)
- ☐ EPA ID# was obtained (*write EPA ID# here.*) \_\_\_\_\_
- ☐ Moved/Changed locations (*Complete 'Changes to line 3' below.*)
- ☐ No ID# on front of form \_\_\_\_\_
- ☐ Other (*explain*): \_\_\_\_\_

## Part 3 – Read and Sign CERTIFICATION Below

### Part 1b: Changes to line 3, Location Address

Please indicate why the location address was corrected:

- ☐ Moved waste generating activities to another location
- ☐ Streets and/or street numbers changed by 911 (Emergency) System
- ☐ Property incorporated into city limits and street was renamed
- ☐ Incorrect address; never at site address listed on front
- ☐ Not a change in location; just a clarification of the address on the front
- ☐ Other (*explain*) \_\_\_\_\_

**Part 1c: Business Type Description.** If your SIC Code (Business Type) is not preprinted on line 6, please provide a brief explanation of your business or the services you provide and staff will assign a SIC Code that describes the type of business you are. \_\_\_\_\_

Check a box below if applicable. Keep a copy of your completed license application for at least 3 years.  
Mail the original, completed application to the MPCA at the address below.

- ☒ My business produces less than 10 gallons of waste per year.
- ☐ My business does not generate a hazardous waste at the location address on the front of this form.
- ☐ My business no longer operates at the location address listed on the front.

### Certification:

I certify under penalty of law that I have personally examined and am familiar with the information contained in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Chuck Faegre  
Signature

Chuck Faegre  
Name (*please print*)

1-29-01  
Date

**You Can Request Additional Information...** visit our Web site at [www.pca.state.mn.us/waste/pubs/business.html](http://www.pca.state.mn.us/waste/pubs/business.html)

- ☐ Please send me more information on the *Special Waste Pilot Project* (#2.22).
- ☐ Please send me more information on VSQG Collection Sites (#2.51).
- ☐ Please send me a listing of the fact sheets available on complying with the Hazardous Waste Rules (#0.00)
- ☐ *Pollution Prevention* can save your business time and money. Non-regulatory programs can be contacted at the numbers below to learn more about the Pollution Prevention opportunities available to you. If you would like to be contacted by the Minnesota Technical Assistance Program (612/624-1300) and/or Minnesota Technologies Inc. (612/373-2900) please check the box at left.

**Return this application by February 5, 2001 to:**

Minnesota Pollution Control Agency, Metro District/Major Facilities  
520 Lafayette Road N, St. Paul, Minnesota 55155-4194





# Hazardous Waste License Application

(to report hazardous waste generated last calendar year, as required by law)

Office Use Only

Core/Active  
CD  
WM  
PM  
FP  
NAICS Code  
Tax ID

## Part 1 - General Information

### Generator ID #

1. MND985692557

### Mailing Address

2. Chuck Faegre

3. DULUTH CITY OF - LESTER GOLF

4. 4825 MIKE COLALILLO DR  
DULUTH, MN 55807

### Location Address

5. 1860 Lester River Rd  
Duluth, MN 55804-3030

6. St. Louis County

7. 218/336-8700 ext.3240

8.

9. Fed. Tax ID: 416005105 MN Tax ID: 8021096

10. Business Type Description:  
NAICS code: \_\_\_\_\_

☐ For all generators, if you did not generate hazardous waste this year but might next year

Generator Size: Generation, ~~Other~~ *nongenerator*

## Part 2 - Waste Stream Information for 2010

**INSTRUCTIONS:** You must complete one form for each location. Record the amount for each waste generated during 2010. Put a line through wastes no longer generated. For wastes not preprinted below, add the wastes to the list after the last preprinted item.

**Reminder:** If you generated parts washer solvent that was hazardous, you **MUST** report it, even if you recycled it on-site, mixed it with used oil, or had your parts washer serviced under contract.

See Application Instructions for details. Return form by August 01, 2011. Please report: P = Pounds, G = Gallons, K = Kilograms

Inventory #	Waste Code (2- or 4-digit)	Name of Hazardous Waste	Amount Previously Reported	Mgmt Method	2010 Amount		
					Write in the amount and indicate pounds, gallons, or kilograms at the right.	P, G, or K	Mgmt Method
No wastes reported prior to 2010.							

## CORRECTIONS ONLY

### 1. Generator ID#

(If you updated the generator ID#, complete Part 1a on last page of this form.)

### 2. Contact Person

(Contact person must sign in Part 3 on last page of this form.)

### 3. Company Name

### 4. Mailing Address

### 5. Location Address

(If you updated the location Address, complete Part 1a on last page of this form.)

### 6. Location County

### 7. Telephone Number

### 8. E-mail Address

### 9. Tax ID: Review and correct if necessary

### 10. Business Type Description

Check the box at the right and complete part 1b on the last page of this form if your NAICS and/or SIC code is not preprinted in box 9 at the left. See last page for complete instructions.

Check box and complete parts 2 and 3 if applicable.

☐ If you generated  $\leq 100$  pounds/10 gallons of waste this year, but would like an application form next year. If you do not check this box, you will receive an application form every 3 years. You must still enter your waste information below.

☐ Out of Business as of: (date) \_\_\_\_\_

\* Note: You must report the amount you generated in the last calendar year even if it's zero.

RECEIVED  
NOV 09 2011  
BY: \_\_\_\_\_



**General Information Explanations: Complete this section only if you have made changes to Part 1.**

**Part 1a: Changes to line 5, Location Address**

Please indicate why the location address was corrected:

- ☐ Moved waste generating activities to another location. *You must complete a "Notification of Regulated Waste Activity Form" for the new location, if you have not already done so, and submit the completed form with your completed License Application; a new ID # will be issued for the new location. The "Notification of Regulated Waste Activity Form" is available on-line at [www.pca.state.mn.us/publications/w-hw7-09.pdf](http://www.pca.state.mn.us/publications/w-hw7-09.pdf). If you moved locations you will also have to complete the "Notification of Regulated Waste Activity Form" to deactivate your EPA ID at the former site.*
- ☐ Streets and/or street numbers changed by 911 (Emergency) System.
- ☐ Property incorporated into city limits and street was renamed.
- ☐ Incorrect address; never at site address listed on front.
- ☐ Not a change in location; just a clarification of the address on the front.
- ☐ Other (explain): \_\_\_\_\_

**Part 1b: Business Type Description. Find your NAICS code by going to [www.census.gov/epcd/www/naics.html](http://www.census.gov/epcd/www/naics.html).**

If you do not have access to the internet and your SIC code is not preprinted on the front page of the application, please provide a brief explanation of your business or the services you provide and staff will assign an appropriate NAICS code. \_\_\_\_\_

**Part 3 - Read and Sign Certification Below.**

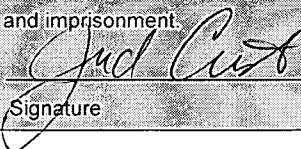
Check a box below if applicable. Keep a copy of your completed license application for at least 3 years.

**Mail the original, completed application to the MPCA at the address below.**

- ☒ My business does not generate a hazardous waste at the location address on the front of this form.
- ☐ My business no longer operates at the location address on the front, and did not generate more than 10 gallons of waste during 2010.

**Certification:**

I certify under penalty of law that I have personally examined and am familiar with the information contained in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

  
Signature

Jud Crist  
Name (please print)

11/7/11  
Date

**You Can Find Additional Information...** by visiting our web site at [www.pca.state.mn.us/waste/pubs/business.html](http://www.pca.state.mn.us/waste/pubs/business.html) for lots of information on hazardous waste rules and regulations.

**Return this application by August 01, 2011 to:**

Minnesota Pollution Control Agency, HW License Application  
520 Lafayette Road N., St. Paul, Minnesota 55155-4194





# Minnesota Pollution Control Agency

520 Lafayette Road North | St. Paul, MN 55155-4194 | 651-296-6300 | 800-657-3864 | 651-282-5332 TTY | [www.pca.state.mn.us](http://www.pca.state.mn.us)

## FINAL NOTICE

October 18, 2011

Dear Minnesota Business:

The Minnesota Pollution Control Agency (MPCA) sent you a **Hazardous Waste License Application** that is now past due. As of the date of this letter we have not received your completed application.

We realize that some of the businesses that have received this mailing may not be subject to regulation and we would like to correct our records if this is the case. **Even if you are no longer producing hazardous waste or are otherwise not regulated, we need to hear from you.** If one of the following situations applies to you, please check the appropriate box and return this letter (**AND your completed license application**) to the address below so that we can update our files.

Company Name: Lester Park Golf Course  
Company's EPA ID Number: 2

- ☐ My business is no longer operating at the location printed above as of: (date) \_\_\_\_\_
- ☐ A new business has moved into this location \_\_\_\_\_
- ☐ My business is no longer producing/has never produced a hazardous waste at this location \_\_\_\_\_
- ☐ My business has moved to a new location and is reporting under ID# \_\_\_\_\_
- ☐ My business has more than one ID# for the same location and has already reported under ID#: \_\_\_\_\_
- ☐ Otherwise not regulated (please describe): \_\_\_\_\_
- ☐ None of the above applies. Complete and return the enclosed license application immediately to:  
Minnesota Pollution Control Agency, HW License Application, 520 Lafayette Road North, St. Paul,  
Minnesota 55155-4194

**If your response is not received within 10 days of the date of this letter, you will be subject to formal enforcement action, which may include the possibility of fines.**

Please return this form **AND** complete the enclosed license application (even if you did not generate any waste- indicate that on the license application). If you need help completing the license application or have additional questions, MPCA staff can help you at 651-296-2412 (toll free at: 1-800-677-4169) between 8:00 a.m. and 4:30 p.m. Monday through Friday. Thank you for your immediate attention to this matter.

Sincerely,

*Kathleen A. Gedde*

Kathy Gedde  
Hazardous Waste Licensing Coordinator  
Land & Water Quality Permit Section  
Industrial Division

RECEIVED  
NOV 09 2011  
BY: \_\_\_\_\_



## GPS Field Data Sheet

No.	MPCA staff	Date	Time	Facility Name	GPS File Name	Latitude	Longitude	Site ID#	Where was sample taken?
1	St. Louis	8/21	1:01	Levee Golf Course	X082118A	N46°50'52.16	W92°00'19.90	2536	Next to AST St. Louis
2	St. Louis	8/21	2:15	UNIVERSITY Food Fuel	X082119A	N46°49'11.86	W92°04'42.52	2729	UST St. Louis
3	St. Louis	8/21	2:33	<del>University</del> <sup>university</sup> oil <del>fuel</del> Spun station	X082119B	N46°49'09.75	W92°06'21.42	6815	S. End of Building
4	St. Louis	8/27	12:00	Link Country Store	X082717A	N47°50'42.82	W92°41'19.60	6798	N. Side of SWAIN/6
5	St. Louis	8/27	12:15	EDWARDS OIL <sup>(Rocky)</sup> <del>7 stone</del>	X082717B	N47°50'47.87	W92°41'34.70	10264	NEXT TO UST'S
6				MW-8 (A)	X082714A				
7				MW-1 (B)	X082714B				
8				MW-1B (C)	X082714C				
9									
10									
11									
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1, 2  
 8/27



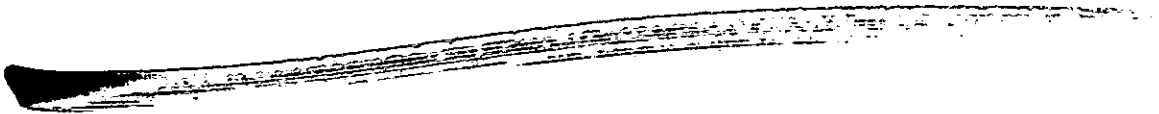
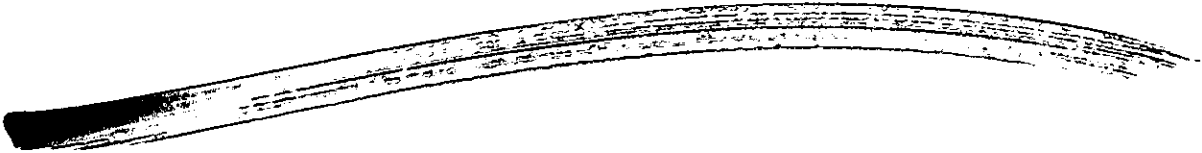
## GPS GEOEXPLORER - DATA COLLECTION DIRECTIONS

Field Directions for collecting GPS locations:

1. Plug in the GPS unit to the battery using the cord found in the yellow bag.
  2. To turn on machine, push black button at bottom center.
  3. Position the unit where you want to collect the GPS location. Use the directional arrows to move the blinking cursor to the different menu items. Under the Main Menu, select **Position** (item #2) by pressing the center diamond shaped button.
  4. Write down the latitude and longitude on your data collection form when it says "GPS POSITION" (note if it says "OLD POSITION", wait until an updated "GPS POSITION" appears on the screen), then press escape (ESC). Escape brings you back to the menu selections.
  5. Toggle over to **Data Capture** (#1), then press enter (diamond shaped button).
  6. Toggle to **Open Rover File**, position the unit where you want to collect the gps location, then push enter. This starts the data collection for this location. In the upper right hand corner you will see the number of gps locational readings that are being recorded. When the number reaches 100, you have enough data.
  7. **Make sure you've recorded the file name (for example H051315A)**, then after 100 points have been recorded, press enter on **Closed File**. If you don't close the file, the unit will continue to collect locational data from wherever you take it, and will generate bogus data.
  8. When asked if you want to close file, toggle to **Yes**, then press enter. You've finished recording your GPS location.
  9. To turn the unit off, hold the button located at the bottom center down for 5 seconds (the display on the unit will show the count down and then turn off)
- \* If you are not able to get a reading and are standing near a building, move away from it.
  - \* Do not delete any information, until after it's down loaded.
  - \* Do not change any of the system defaults, including , including the clock on the unit.
  - \* Keep the unit plugged in to its main battery, meaning don't remove the lithium battery pack from the unit or you'll lose memory of any stored locations. If the battery pack cable becomes unplugged, don't worry the lithium batteries in the unit should hold the memory intact for a few minutes, if they have a charge.

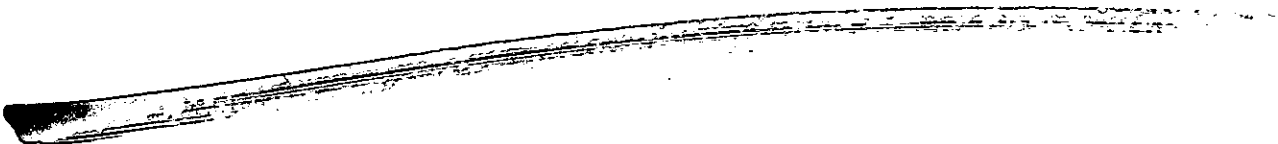
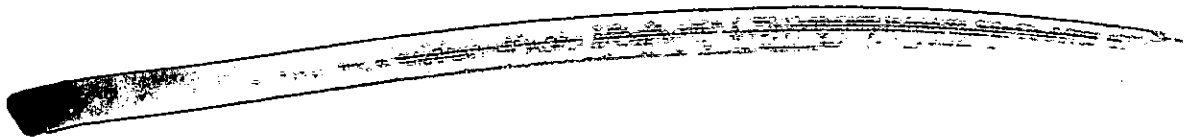


SSF	X082717A	106	47 50 52.3	2.88149	092 41 01.	4.45804	364.3795	12.8356
SSF	X082717B	152	47 50 57.2	6.33647	092 41 15.	12.36842	364.8183	22.64717



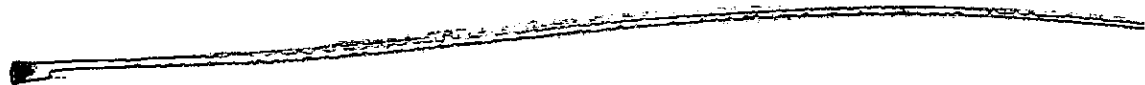
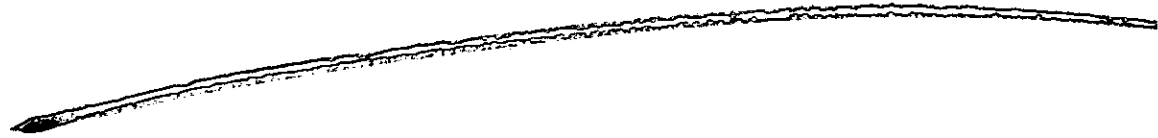


8/27/98	17:03:54
8/27/98	17:16:24



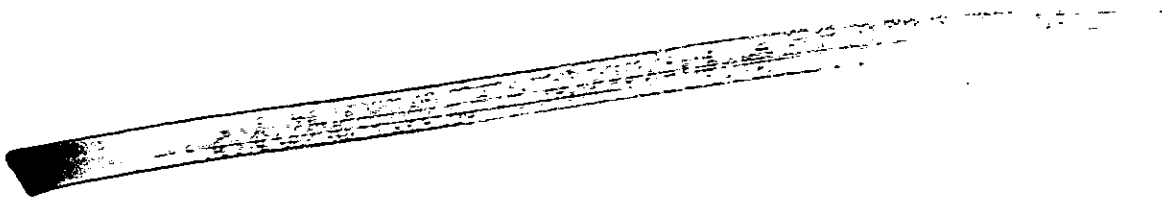
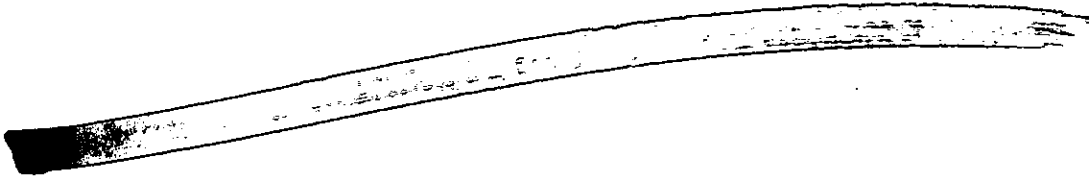


SSF	X082118A	108	46 51 01.6	15.23505	092 00 01.	17.06713	266.5277	41.16777
SSF	X082119A	109	46 49 21.6	8.09074	092 04 24.	5.19008	273.0552	21.08716
SSF	X082119B	137	46 49 19.3	8.68546	092 06 03.	5.71139	364.777	17.10907





8/21/98	18:05:48
8/21/98	19:14:33
8/21/98	19:26:20





MPCA Leaksite Remarks Screen

Leak ID: 2536

10/14/91 TMW Rec'd SCAP & PETAPP reports.

1/11/95 SJL: Site transfered to JAJ.

0909/97: Called Bob Maslowski at RSI, he has more intrusive work to do. I recommended he apply this site to our policy as a LSI, and send in the report. However, only if he could draw conclusions recommendations. (JAJ) He said he planned on submitting all of the Duluth sites by 12/30/97.

6/29/98 - JRS:

I reviewed the RI report prepared by RSI dated January 28, 1998. RSI is recommending closure for the site. I concur with their recommendations. Since 1995 only one well, MW-2 has been hot and overall has exhibited a nice decreasing trend (despite the inconclusive biodeg data). The dowgradient sample points have also been clean. There are no receptors within 500 feet and the area is serviced by municipal water.

Rpt Trkng(F11) Restore(F12) Save(F10) Quit(PF3) >



## 25

ECT NAME:

DE FECT

NUMBER.

2536

**PCA04-1395**



# 2536

C6Z

## MINNESOTA POLLUTION CONTROL AGENCY

## TANKS AND SPILLS SECTION

## PETROLEUM TANK RELEASE REPORT

Report Taken by: D. Favatt

Date/Time Occurred:

Date/Time Reported: 5/16 1:28

Date/Time Discovered: 4/24/90

LEAK #

USTIS #

## CALLER

Name: Jack Granquist

Phone: (715) 392-7114

Relationship to site:

Twin Ports Testing

SITE Lester Park Golf Course

Name: 1860 Lester River Rd

Street:

City: Duluth

Zip: 55804

County:

Region:

## SITE OPERATOR

Name:

Street:

City:

Zip:

Contact Person:

Phone:

## TANK OWNER / OPERATOR

Name: City of Duluth

Street: City Hall

City:

Zip:

Contact Person: Bob Troolin (Risk Mgt. Spec)

Phone: ~~845-4448~~ (218) 723-3291

## SITUATION

Material released/amount:

Water + GAS

Source of release:

UST

Release discovery:

UST Removal

## TANK INFORMATION

Contents	Size	Age	Removed	Condition	Registered
GAS	350	unx >15	4/24	hole	

State or Federal

Notification prior to removal:

MPCA, Fire Marshal, Excavation Contractor, Consultant present:

Anderson Sand + Gravel + Demolition

Twin Ports

## SOIL

Contaminated soil: yes

Contaminated soil excavated: 400 yd<sup>3</sup>

Vapor readings: max 190 ppm HAN

Soil samples: yes

Borings: NO

Soil type: Sandy / Silty / clay / Till

Stockpiled properly:

Disposal arranged:

Was it a total excavation: NO, but most available, Water Impact



**WATER**

Groundwater in excavation: yes

Free product present: Sheen

high HNU Read.

Groundwater: water sample.

City water: no

Wells private/municipal: yes, Deer on ways away irrigation 400-500' deep

Surface water:  
Ponds 100 yds away**VAPOR**

Sewers: NO

Buildings:

**SITE INFORMATION**

Description of the area:

On golf course

Previous release:

NO

Other possible sources:

NO

**INSTRUCTIONS GIVEN**

Hire consultant

Submit report

Staff will call

Contact staff

Twin Ponds

**CONTACTS**

Local Fire/Police

Local Officials

Regional Staff

Other

**INFORMATION SENT****CONCLUSIONS**

Tank Removal, material appeared to be water, but had high flash point.  
There was a stain on the water, and high HNU Readings at the water table. Most likely a water impact. He did get a water sample.

PCA04-1397

STAFF

SUPERVISOR  
DATE

PRIORITY



MINNESOTA POLLUTION CONTROL AGENCY  
TANKS AND SPILLS SECTION  
SPILLS REPORT

USTIS

1/90

LEAK 2536

DECK 5358

Report taken by:

Date/time occurred:

Date/time of report:

Date/time discovered:

CALLER

name: Jack Stranquist  
or Rick Palm  
phone: 715-392-7114

relationship to site:

Twin Ports Testing

MATERIAL RELEASED/AMOUNT

LOCATION

name: Lester Park Golf Course  
street: 1860 Lester River Rd.  
city, zip: Duluth  
county: St. Louis 55804

SITE OWNER/RESPONSIBLE PARTY

name: City of Duluth  
street: Courthouse  
city, zip:  
contact person: Bob Troolin  
phone: 218-723-3291

SITUATION (HOW/WHY)

minor spill - gasoline  
3-5 gal of fuel

Excavating tank -

Excavated Total

300 yds excavated.

Taken to site & being  
treated by Cliff Anderson  
to be then spread.

INSTRUCTIONS GIVEN (circle)

hire consultant  
submit report  
staff will call  
contact staff

AREAS AFFECTED

surface water  
groundwater at 9' - contaminated  
sanitary sewer intersected ground water.  
storm sewer  
soil  
wells  
other

ACTIVITIES TO DATE

Emergency Declared? Y N  
vapor water other  
Funding: RP State  
Work Order #

Clean up (specify):

Disposal:

Date Case Closed:

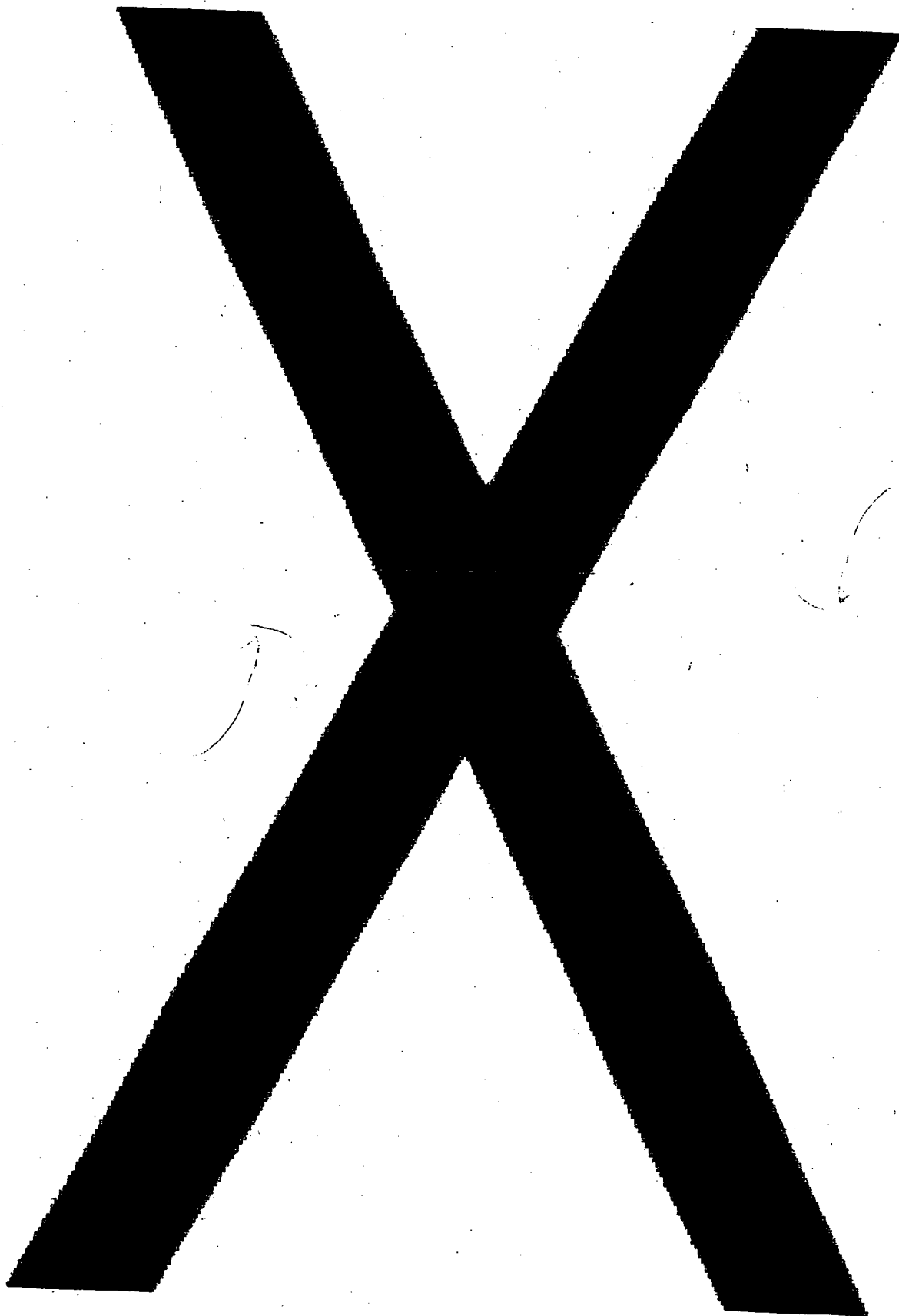
CONTACTS

Local Fire/Police  
Local Officials  
Emergency Services  
MPCA Region  
MDA  
MDOT  
Other

assigned to CGZ 3/21/90

PCA04-1398









# Minnesota Pollution Control Agency

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July 8, 1998

Mr. Chuck Faegre  
City of Duluth  
313 City Hall  
Duluth, Minnesota 55802

RE: Petroleum Tank Release Site File Closure  
Site: Lester Park Golf Course, 1860 Lester River Road, Duluth  
Site ID#: LEAK00002536

Dear Mr. Faegre:

We are pleased to let you know that the Minnesota Pollution Control Agency (MPCA) Tanks and Emergency Response Section (TERS) staff has determined that your investigation and/or cleanup has adequately addressed the petroleum tank release at the site listed above. Based on the information provided, the TERS staff has closed the release site file.

Closure of the file means that the TERS staff does not require any additional investigation and/or cleanup work at this time or in the foreseeable future. Please be aware that file closure does not necessarily mean that all petroleum contamination has been removed from this site. However, the TERS staff has concluded that any remaining contamination, if present, does not appear to pose a threat to public health or the environment.

The MPCA reserves the right to reopen this file and to require additional investigation and/or cleanup work if new information or changing regulatory requirements make additional work necessary. If you or other parties discover additional contamination (either petroleum or nonpetroleum) that was not previously reported to the MPCA, Minnesota law requires that the MPCA be immediately notified.

You should understand that this letter does not release any party from liability for the petroleum contamination under Minn. Stat. ch. 115C (Supp. 1997) or any other applicable state or federal law. In addition, this letter does not release any party from liability for nonpetroleum contamination, if present, under Minn. Stat. ch. 115B (1996), the Minnesota Superfund Law.

The monitoring wells for this site should be abandoned in accordance with the Minnesota Department of Health Well Code, Chapter 4725. If you choose to keep the monitoring wells, the Minnesota Department of Health will continue to assess a maintenance fee for each well.



Mr. Chuck Faegre

Page 2

July 8, 1998


Because you performed the requested work, the state may reimburse you for a major portion of your costs. The Petroleum Tank Release Cleanup Act establishes a fund which may provide partial reimbursement for petroleum tank release cleanup costs. This fund is administered by the Department of Commerce Petro Board. Specific eligibility rules are available from the Petro Board at 612/297-1119 or 612/297-4203.

If future development of this property or the surrounding area is planned, it should be assumed that petroleum contamination may still be present. If petroleum contamination is encountered during future development work, the MPCA staff should be notified immediately.

For specific information regarding petroleum contamination that may remain at this leak site, please call the TERS File Request Program at 612/297-8499. The MPCA fact sheet #3.35 *Leak/Spill and Underground Storage Tank File Request Form* (April 1997) must be completed prior to arranging a time for file review.

Thank you for your response to this petroleum tank release and for your cooperation with the MPCA to protect public health and the environment. If you have any questions regarding this letter, please call me at 612/297-8607.

Sincerely,

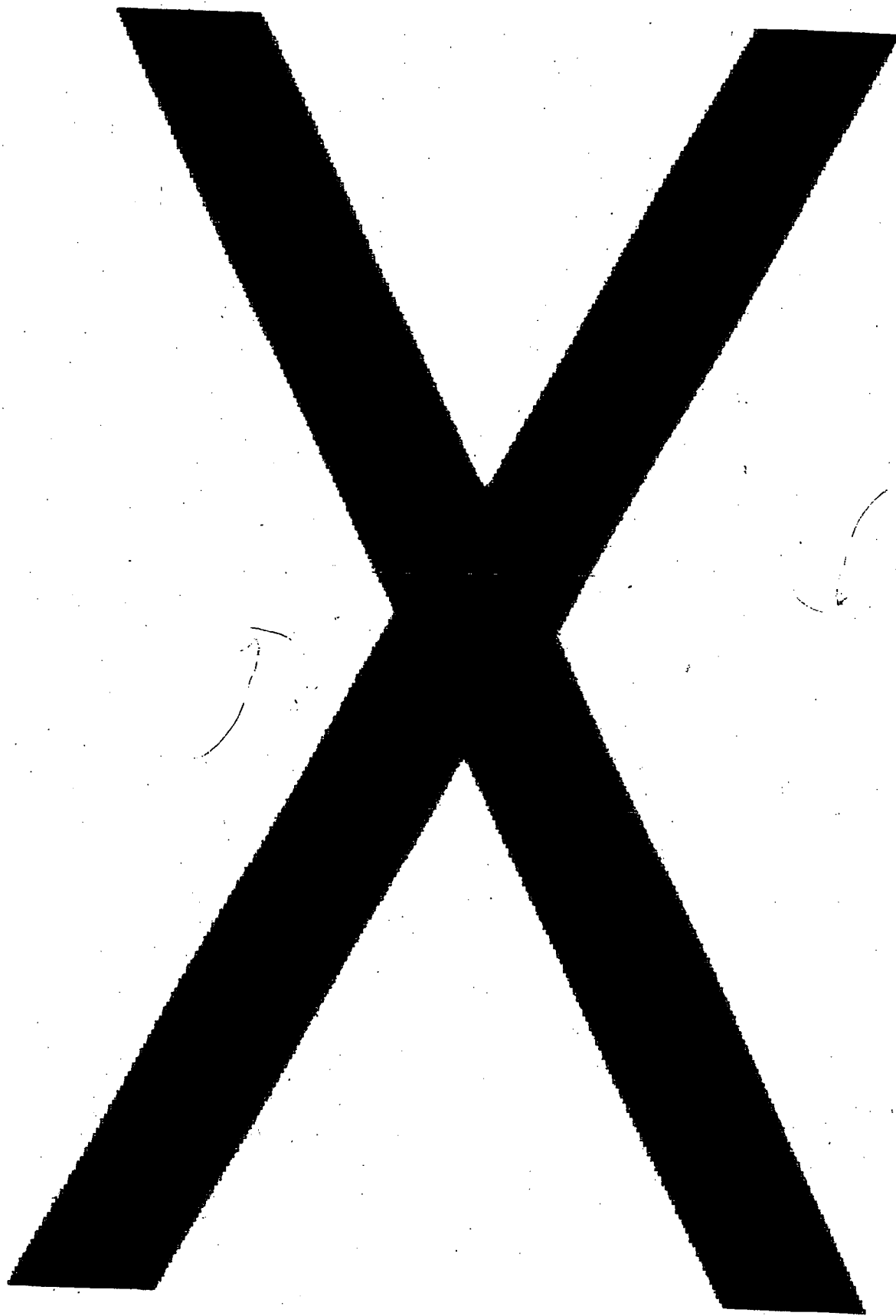
*For*   
James Joslyn  
Project Manager  
Cleanup Unit II  
Tanks and Emergency Response Section

JAJ:lh

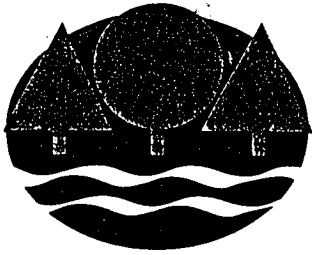
cc: Jeffrey Cox, City Clerk, Duluth  
Duane Flynn, Fire Chief, Duluth  
Ted Troolin, St. Louis County Solid Waste Officer  
Guy Partch, Remediation Service Inc., Duluth  
Minnesota Department of Commerce, Petrofund Staff

PCA04-1621









# Minnesota Pollution Control Agency

May 31, 1994

Mr. Monte Ollenburger  
Director, Administrative Services  
City of Duluth  
200 City Hall  
Duluth, Minnesota 55802-1195

*Handwritten:* 71-25361

RE: Investigation Schedule for Open Tank Leak Files for City of Duluth Sites

Dear Mr. Ollenburger:

Thank you for your letter dated May 19, 1994, with the attached schedule for Remedial Investigations at city of Duluth tank leaksites. We appreciate that the schedule for these sites has now been escalated.

Sincerely,

*Handwritten signature of Steven J. Leppälä*  
Steven J. Leppälä  
Regional Specialist

cc: Les Conway, Earth Burners, Inc.  
Bob Troolin, City of Duluth

**PCA04-1622**

Duluth Government Center, Suite 704; 320 West Second St.; Duluth, Minnesota 55802; (218) 723-4660, FAX (218) 723-4727

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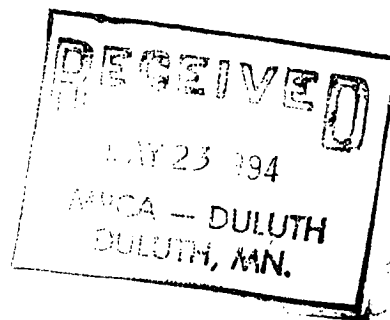


# CITY OF DULUTH

DEPARTMENT OF ADMINISTRATIVE SERVICES

200 City Hall • Duluth, Minnesota 55802-1195

DULUTH 218-723-3700 FAX 218-723-3400



May 19, 1994

Steven Leppala, Regional Specialist  
Minnesota Pollution Control Agency  
320 West Second Street Suite 704  
Duluth, MN 55802

Re: MNPCA Letter Dated May 9, 1994

Dear Mr. Leppala,

This letter is in response to your letter dated May 9, 1994. I would like to briefly address the tone of your letter. I believe comments threatening a reduction in Petrofund reimbursements due to a "lack of cooperation" is unwarranted given the City of Duluth's record over the last five years. In that time the City of Duluth has:

- Removed 70 underground storage tanks from 36 sites.
- Spent over \$750,000.
- Cleaned up contamination at 10 sites.
- Partially cleaned up an additional 10 sites.
- In 1993 removed 10 underground storage tanks and cleaned up 5 sites.
- In 1994 (as of May 13, 1994) removed 10 underground storage tanks and cleaned up 2 sites.

The City of Duluth initiated this plan based on the best interest to the environment and in cooperation with the MPCA. The City of Duluth removed the high potential risks to the environment first. We estimate the remaining work to cost approximately \$150,000. This means the City of Duluth is 100% complete on tank removal and 80% complete on remedial work. I find these numbers and production very difficult to label as "lack of cooperation".

In answer to your demand for a work plan for the remaining sites, I have attached a schedule for your review. Please contact the City's Loss Control Officer (Bob Troolin, (218)723-3291) if you require additional information.

Sincerely,

Monte Ollenburger, Director  
Administrative Services

MO/pk

Enc. MNPCA letter dated May 9, 1994  
Earth Burners letter for remedial planning

cc: (1) Wayne Golly, Regional Director  
MNPCA  
320 West Second Street Suite 704  
Duluth, MN 55802

(2) Bob Troolin, City of Duluth



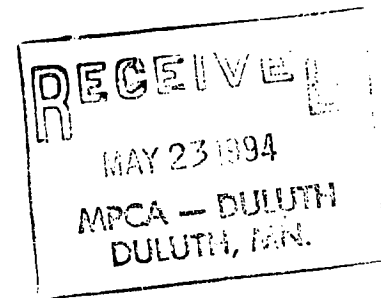
# **EARTH BURNEI , INC.**

P.O. Box 16083  
Duluth, Minnesota 55816-6083

Terry Anderson  
218/343-1162 (Mobile)  
218/729-5229 (Home)  
218/628-0454 (Office)

May 19, 1994

Mr. Bob Troolin  
City of Duluth  
313 City Hall  
Duluth, MN 55802



RE: Open Tank Leak Sites  
Duluth, Minnesota

Pursuant to your request, Earth Burners, Inc. (EBI), has developed a preliminary schedule to address fifteen (15) open tank leak sites. Thirteen of the sites are referenced in a letter dated May 9, 1994, from Steve Leppala of the MPCA. Two (2) additional sites are included:

- 14. Far West Tool House #2400
- 15. Lester Park Golf Course #2536

In accordance with our discussions, EBI is providing you with the following scope of services:

1. Review existing documentation for each site that includes: excavation reports, analytical chemistry results, notification forms, other relevant information included in your files.
2. Develop a work plan for each site that should satisfy the MPCA requirements for a remedial investigation.
3. Develop a preliminary cost estimate for each site to address activities through remedial investigation completion and report development.
4. Provide a tentative schedule for each site which includes activities from work plan development through report development and submittal.

*Petroleum Contaminated Soil Specialists • We Burn The Soil Clean  
(Meets all Minnesota Regulations) • We Remove Petroleum Tanks*

PCA04-1624



We would like to begin file review as soon as possible. If it is agreeable with you, we can begin this work at 8AM on Friday, May 20, 1994.

We trust this provides you with necessary information you require at this time. If you have any questions, please contact us.

Sincerely,

A handwritten signature in cursive script that reads "Les Conway". The signature is fluid and stylized, with the first and last names clearly legible.

Les Conway, P.E.  
Consulting Engineer



**PRELIMINARY SCHEDULE**  
FOR  
REMEDIAL INVESTIGATIONS  
CITY OF DULUTH

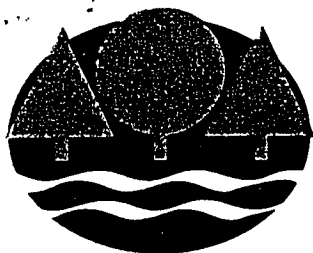
LEAK #	WORKPLAN/ PROJ. REV.	PROJ. COOR\ MANAGM.	FIELD ACT\ INVEST.	ANA. CHEM REV./SAMP	REPORT DEV.	EST COMPLETION
1005	5/30	6/10	6/24	7/22	9/23	10/14
2943	5/30	6/10	6/24	7/22	9/23	10/14
2619	5/30	6/10	7/1	7/29	9/30	10/21
3084	5/30	6/10	7/1	7/29	9/30	10/21
4681	5/30	6/10	6/24	7/22	9/23	10/14
4694	5/30	6/10	6/24	7/22	9/23	10/14
4708	5/30	6/10	7/15	8/12	10/14	10/28
5810	5/30	6/10	7/15	8/12	10/14	10/28
5857	5/30	6/10	7/1	7/29	9/30	10/21
5850	5/30	6/10	7/15	8/12	10/14	10/28
5846	5/30	6/10	7/15	8/12	10/14	10/28
5847	5/30	6/10	7/15	8/12	10/14	10/28
6303	5/30	6/10	7/1	7/29	9/30	10/21
2400	5/30	6/10	7/22	8/26	10/14	11/4
2536	5/30	6/10	7/22	8/26	10/14	11/4



## ACTIVITY DESCRIPTIONS

- Workplan/Proj. Rev. - these activities include; project file review, site map development, cost estimates.
- Proj. Coord/Mangm. - after workplan and cost estimate review by client, necessary permits and agreements will be obtained, also includes site contacts, utilities clearance and scheduling
- Field Act./Invest. - field activities includes; soil borings, monitoring wells, risk assessments, sampling, data collection, etc.
- Ana Chem Rev./Samp. - if additional sampling is required it will be performed, other activities include data reduction and review, mapping, hydrogeologic review.
- Report Dev. - review and report preparation.
- Est Completion - final report review with client.

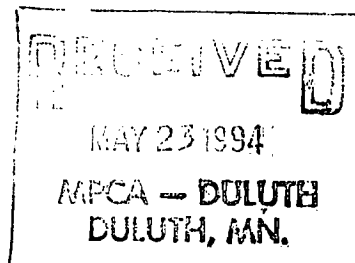




# Minnesota Pollution Control Agency

May 9, 1994

Mr. Monte Ollenburger  
Director, Administrative Services  
City of Duluth  
313 City Hall  
Duluth, Minnesota 55802



RE: Investigation Schedule for Open Tank Leak Files for City of Duluth Sites

Dear Mr. Ollenburger:

Following is a list of city of Duluth tank leaksites that according to the Minnesota Pollution Control Agency (MPCA) Leaksite Database are still listed as open sites:

Name	Address	Leak #	Reported	Project Manager
City of Duluth	24th Ave. W.	1005	3/14/89	Steven Leppälä
Park's T.H.	101 W. 42nd Ave.	2943	4/12/90	Steven Leppälä
Street Maint.	103 E. Central Ent.	2619	4/27/90	Steven Leppälä
Police Garage	411 W. 1st St.	3084	7/17/90	Steven Leppälä
Lake Sup. Zoo	7214 Fremont St.	4681	10/14/91	Steven Leppälä
Fire Sta. #8	601 N. Central Ave.	4694	10/15/91	Steven Leppälä
Fire Sta. #6	1031 N. 51st Ave. E.	4708	10/17/91	Steven Leppälä
Fire Sta. #10	1106 Commonwealth Ave.	5810	10/14/92	Steven Leppälä
Bldng Maint.	1532 W. Michigan St.	5857	10/16/92	James Joslyn
City T.H.	105 N. 40th Ave. W.	5850	10/21/92	James Joslyn
St. Maint.#3	1310 Jefferson	5846	10/28/92	James Joslyn
St. Maint.#1&2	5102 Dodge St.	5847	10/28/92	James Joslyn
HQ Fire Hall	602 W. 2nd St.	6303	5/07/92	Dawn Duncanson

The city of Duluth is also considered a responsible person along with the Minnesota Department of Administration (DOA) for a leak at the Government Services Center (Leak # 4948). The lead has been taken by the DOA for this leak.

On May 3, 1994, Bob Dullinger, Supervisor, Cleanup Unit 2, MPCA, St. Paul, and myself from the MPCA Duluth Regional Office met with Mr. Bob Troolin of your office to discuss these sites. As you can see from the above list, most of these sites were reported some time ago. Only limited information regarding the soil conditions at the bottom of some the tank excavations have been submitted. No information has been provided regarding the extent and magnitude of any remaining soil or ground water contamination. For a typical leaksite, it has been our policy for some time to expect results of a Remedial

PCA04-1628



Mr. Ollenburger

Page 2

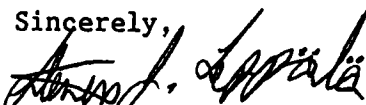
May 9, 1994

Investigation (RI) within 10 (ten) months of the report date. Mr. Troolin did explain that the city's plan had been to remove all of their underground storage tanks and later return to sites with remaining contamination to do RIs. Because the city's removal plan has taken several years, however, these older leaksites are considerably past due for RI information to be submitted.

While we acknowledge the apparent financial constraints that Mr. Troolin explained, we must expect proper response from the city of Duluth as we would from any other responsible person. For other similar sites we have recommended a reduction in reimbursement because of "lack of cooperation" for long delays. At the meeting, Mr. Troolin also set forth a preliminary schedule for conducting the RIs at the above sites with work beginning at one site this year and the rest of the sites to begin at a later date. This schedule is not acceptable and enforcement actions will likely result if the schedule to investigate all open sites is not escalated.

The MPCA is requesting a schedule for continued work at these sites and any other City of Duluth leaksites still open that does not appear on the above list. Please provide this schedule within two weeks of the date of this letter.

Sincerely,



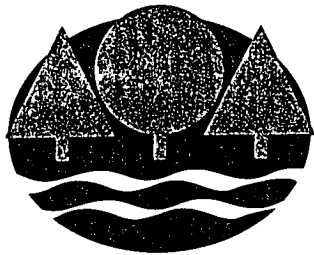
Steven J. Leppälä  
Regional Specialist

cc: Bob Troolin, City of Duluth



X





# Minnesota Pollution Control Agency

---

April 19, 1993

Mr. Bob Troolin  
City of Duluth  
313 City Hall  
Duluth, Minnesota 55802

Dear Mr. Troolin:

RE: Completion of Land Application Site Soil Monitoring Requirements  
LEAK 2400: Municipal Garage, 2407 Commonwealth Avenue, Duluth  
LEAK 2536: Lester Park Golf Course, 1860 Lester River Road, Duluth  
LEAK 2619: Street Maintenance Garage, 103 East Central Entrance, Duluth

On November 14, 1990, the Minnesota Pollution Control Agency (MPCA) staff issued a letter of approval for land application of petroleum contaminated soil from the site referenced above. The approval letter specified that additional follow-up soil analysis as outlined in part III.C of the MPCA document "Land Treatment of Petroleum Contaminated Soil: Land Treatment Sites" is required at the land application site.

The MPCA staff has received and reviewed the monitoring results for soil samples collected at the land-application site on July 19, 1991. The results indicate that the soil has been adequately treated. Therefore, no further follow-up soil monitoring and tillage is required at the land application site. This area may now be used for crop production if desired.

If you have any questions you may contact me at 218/723-4660.

Sincerely,

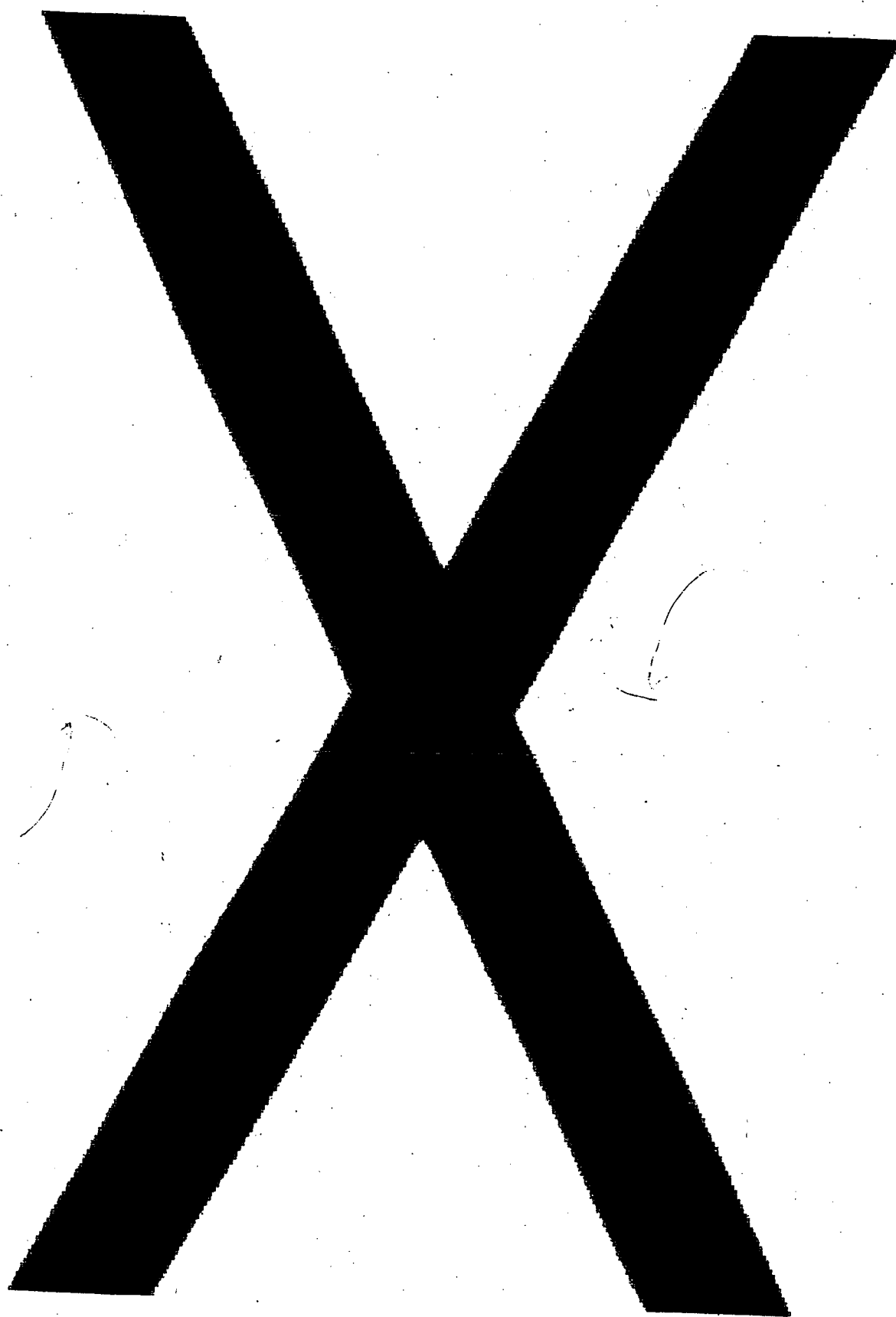
  
Steven J. Leppälä  
Regional Specialist

cc: Clifford Anderson, Land Treatment Site Land Owner  
John Jubala, Saint Louis County Zoning Administrator  
Terry Soderberg, Saint Louis County Solid Waste Officer  
Rick Hoglund, Twin Ports Testing, Inc.

Greater Minnesota TDD 1-800-627-3529

PCA04-1630







LEAK 2536

LEAK 2536

SF-00006-05 (4-88)

DEPARTMENT : MN Pollution Control Agency - Duluth

STATE OF MINNESOTA

## Office Memorandum

DATE : January 7, 1991

TO : Chris Zadak  
Tanks and Spills Section  
Hazardous Waste Division

FROM : Tim Musick *TMM*  
Regional Specialist

RECEIVED

JAN 09 1991

MPCA, HAZARDOUS  
WASTE DIVISION

PHONE : 218-723-4660

SUBJECT : Cliff Anderson's Multiple Land Application Site, Duluth, MN

On November 6, 1990, Cliff Anderson, Mike Rose and I visited Cliff's multiple land application site for petroleum contaminated soil. The site is located off County Road #4 near the Duluth airport and sanitary landfill.

At the time of this inspection, all of the contaminated soil taken to this site had been spread. According to my calculations, approximately 3500 cu. yds. have been delivered to this land application site. However, in reviewing the attached site map provided by Mr. Anderson, only about 2.5 acres (106,000 sq. ft.) have been used to spread the estimated 3500 yds. of contaminated soil. Since we calculate about 530 yds. per acre at a 4 inch thickness, the soil appears to have been spread too thick. although, the undulating surface of the ground plus the then allowable 6 inch spreading depth for area 1 on the site map may account for some of the discrepancies.

Despite the apparent thicker than acceptable soil depths, this site should eventually provide us with "clean" soil but additional discing, fertilization and time may be required. The attached soil analysis of the older area 1 (on the site map) provides us with some evidence that the soil can be cleaned despite the thicker application rates.

In Mr. Anderson's defense, most of the soil taken to his site was the heavy red clay typical of the Duluth area. This type of clay is difficult to handle even under the best of conditions, i.e. ideal moisture content. The attached photos, especially the first photo (area #1), show the furrowing technique Mr. Anderson used to mix the clay soil with the native soil. This particular area had clay that was either too wet or too dry to allow the typical discing technique. Instead, the blade of a cat was used to mix the contaminated soil with the native soil but the technique creates the higher furrow appearance.

If you have any questions concerning the contents of this memo or the attachments feel free to call me.

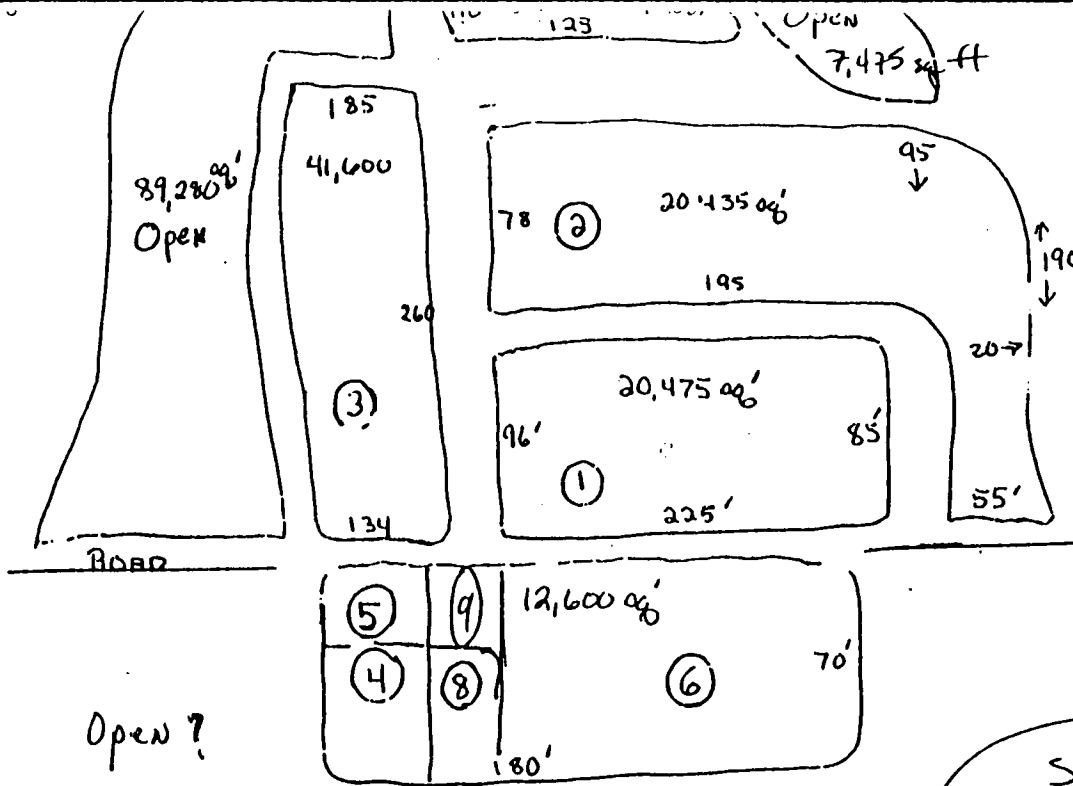
TAM:ph

cc: Ann Bidwell, Tanks and Spills Section  
Hazardous Waste Division, MPCA

PCA04-1631

Photos in file LEAK 1876 60 en





- 1428 1113 (3) City 59th W  
 2933 (4) Lighthouse/Blind  
 22 2510 (5) Banning Park  
 39 2881 (6) Combined City Sites  
 2296 (7) City of Duluth 40th W  
 (8) St. Ben. Church  
 (9) Salvation Army 2296 4540s.

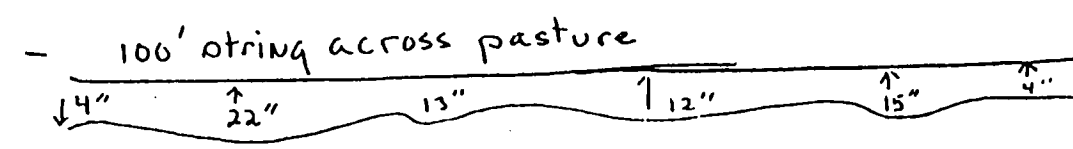
- 1- We hauled
- 2- Arrowhead hauled
- 3- Waltham hauled
- 4- We hauled
- 5- We hauled
- 6- We hauled
- 7- City hauled
- 8- We hauled
- 9- We hauled

Site 1 is combined City Soils

PCAO4-1632

1	20,475	20,475
2	20,435	12,600
3	41,600	20,435
4	12,600	10,700
5 (304)	---	41,600
6 (304)	---	106,000
7	10,700	
8 (304)	---	
9 (304)	---	
10	(OPEN)	

2.45 Acres



The only way to get 4" is on road or graded area

- Estimated quantity loading
- Material stuffed up in digging
- Settling on site - natural + rain

Tim  
Mike

105,810 sq ft used 2.4 Acres





# SERCO Laboratories

DND 831850

EPA - DND

331 West County Road C2 St. Paul, Minnesota 55113 (612) 636-7173

## LABORATORY ANALYSIS REPORT NO: 3625 11/21/90

Anderson Sand & Gravel  
4597 Old Hwy. 53  
Saginaw, MN 55779

DATE COLLECTED: 11/12/90  
DATE RECEIVED: 11/13/90  
COLLECTED BY : CLIENT  
DELIVERED BY : CLIENT  
SAMPLE TYPE : SOIL

Attn: Cliff Anderson

WG
PAGE 1

SERCO SAMPLE NO: 105640 105650 105660

SAMPLE DESCRIPTION:      Sample      Sample      Sample  
   1                    2                    3  
   West           Middle           East

- 3 sections  
- grab sample  
- Cliff  
sampled  
his own  
(Dane)  
(according  
lab  
instruction)

### ANALYSIS:

Benzene, mg/kg	0.006	0.006	<0.005
Toluene, mg/kg	<0.005	<0.005	<0.005
Ethylbenzene, mg/kg	<0.005	<0.005	<0.005
Xylene, mg/kg	0.007	0.006	0.009
FID Scan, mg/kg, as gasoline	<0.50	<0.50	<0.50
FID Scan, mg/kg, as #2 fuel oil	<2.0	<2.0	<2.0

All analyses were performed using EPA or other accepted methodologies. Samples that may be of an environmentally hazardous nature will be returned to you. Other samples will be stored for 30 days from the date of this report, then disposed of by SERCO LABORATORIES. Please contact me if other arrangements are needed.

Report submitted by,

*Jerome Kosteletzky*

Jerome A. Kosteletzky  
Project Manager

Site # 1 Hwy 4  
Combined City of Duluth

PCA04-1633

&lt; means "not detected at this level". 1 mg = 1000 ug.





### CHAIN OF CUSTODY

TO LABORATORIES  
1 WEST COUNTY ROAD C2  
PAUL, MN. 55113  
2-636-7173  
612-636-7178

SAMPLING ADDRESS: Hwy Site # 4

SAMPLER: C. A. Anderson  
(SIGNATURE)

(SIGNATURE) Jerome Kastelicky  
PROJECT SUPERVISOR: J. Kastelicky

SAMPLE LOT NUMBER	①	DISCREPANCY	YES	NO
1	1			
2	2			
3	3			
4	4			
5	5			
6	6			
7	7			
8	8			
9	9			
10	10			
11	11			
12	12			
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96	96			
97	97			
98	98			
99	99			
100	100			

COOLER NUMBER SL 59 CLIENT NOTIFIED \_\_\_\_\_

TEMPERATURE OF COOLER ON  
RECEIPT AT LABORATORY

NAME: C. ANDERSON  
ADDRESS: 4597 Old Hwy 53  
Saginaw, MI 55779  
PHONE: 218 729 9433

[illegible]

DISPATCHED BY	DATE	TIME	RECEIVED BY (SIGNATURE AND COMPANY)
---------------	------	------	-------------------------------------

AM 1:00 PM 11/13/80 11:00

AM  
PM

AM  
PM

AM  
PM

AM  
PM

FOIA b 1, b 7C, b 7D

FOIA 1001

Site #1  
Combined City of Duluth  
Tubs





11 Samples - Discount -

**SERCO Laboratories**

1931 West County Road C2, St. Paul, Minnesota 55113 (612) 636-7173

Project Manager: Jerome Kosteletzky  
REC'D AUG 22 1990

Christ: #95 Sample

fill jars - Clean Threads

LABORATORY ANALYSIS REPORT NO: 2298  
08/18/90

PAGE

Two Ports Test Rig  
1300 North Tower Street  
Superior, WI 54980

DATE COLLECTED: 08/12/90  
DATE RECEIVED: 08/14/90  
COLLECTED BY: CL ENT  
DELIVERED BY: CL ENT  
SAMPLE TYPE: SOIL

Attn: Jack Chiquet

SERCO SAMPLE NO:	07840	07850	07860
SAMPLE DESCRIPTION:	SS-1	SS-2	SS-3
	298-90E		

**ANALYSIS:**

Parameter	07840	07850	07860
Benzene, mg/kg	<0.005	<0.005	<0.005
Ethyl benzene, mg/kg	<0.005	<0.005	<0.005
Toluene, mg/kg	<0.005	<0.005	<0.005
Xylene, mg/kg	<0.005	<0.005	<0.005
PIC Span, mg/kg, as #2 fuel oil	<2.0	<2.0	<2.0

All analyses were performed using EPA or other accepted methodologies. Samples that may be of an environmentally hazardous nature will be returned to you. Other samples will be stored for 30 days from the date of this report, then disposed of by SERCO LABORATORIES. Please contact me if other arrangements are needed.

Report submitted by,

*Diane J. Anderson*

Diane J. Anderson  
Project Manager

PCA04-1635



< means not detected at this level mg = 1000 ug





# SERCO Laboratories

1931 West County Road C2, St. Paul, Minnesota 55113 Phone (612) 636-7173 FAX (612) 636-7178

LABORATORY ANALYSIS REPORT NO: 7309  
08/02/91

PAGE 1

Anderson Sand & Gravel  
4597 Old Hwy. 53  
Saginaw, MN 55779

DATE COLLECTED: 07/19/91  
DATE RECEIVED: 07/19/91  
COLLECTED BY : CLIENT  
DELIVERED BY : CLIENT  
SAMPLE TYPE : SOIL

Attn: Cliff Anderson

SERCO SAMPLE NO: 71321 71331 71341 71351

SAMPLE DESCRIPTION: City of Duluth A City of Duluth B Arrow-head A Arrow-head B

ANALYSIS:

Benzene, mg/kg	<0.005	0.020	0.035	0.051
Toluene, mg/kg	0.010	0.015	<0.005	<0.005
Ethylbenzene, mg/kg	<0.005	<0.005	<0.005	<0.005
Xylene, mg/kg	<0.005	0.012	0.007	<0.005
FID Scan, mg/kg, as gasoline	<0.50	<0.50	<0.50	<0.50
FID Scan, mg/kg, as #2 Fuel oil	<2.0	<2.0	<2.0	<2.0

*Total Hydrocarbons*

All analyses were performed using EPA or other accepted methodologies. Samples that may be of an environmentally hazardous nature will be returned to you. Other samples will be stored for 30 days from the date of this report, then disposed of by SERCO LABORATORIES. Please contact me if other arrangements are needed.

Report submitted by,

*Jerome Kostecky*

Jerome A. Kostecky  
Project Manager

PCA04-1636

*Tom Johnson - Zenith Dredge*

< means "not detected at this level". 1 mg = 1000 ug.





LABORATORY ANALYSIS REPORT NO: 3625  
01/18/91

PAGE 1

Anderson Sand & Gravel  
4597 Old Hwy. 53  
Saginaw, MN 55779

DATE COLLECTED: 11/12/90  
DATE RECEIVED: 11/13/90  
COLLECTED BY : CLIENT  
DELIVERED BY : CLIENT  
SAMPLE TYPE : SOIL

Attn: Cliff Anderson

SERCO SAMPLE NO:	105640	105650	105660
SAMPLE DESCRIPTION:	Sample 1 West	Sample 2 Middle	Sample 3 East

ANALYSIS:

Benzene, mg/kg	0.006	0.006	<0.005
Toluene, mg/kg	<0.005	<0.005	<0.005
Ethylbenzene, mg/kg	<0.005	<0.005	<0.005
Xylene, mg/kg	0.007	0.006	0.009
FID Scan, mg/kg, as gasoline	<0.50	<0.50	<0.50
FID Scan, mg/kg, as #2 fuel oil	<2.0	<2.0	<2.0

All analyses were performed using EPA or other accepted methodologies. Samples that may be of an environmentally hazardous nature will be returned to you. Other samples will be stored for 30 days from the date of this report, then disposed of by SERCO LABORATORIES. Please contact me if other arrangements are needed.

Report submitted by,

Jerome A. Kostelecky  
Project Manager



5JL

MINNESOTA POLLUTION CONTROL AGENCY  
COMMISSIONER'S SITE REPORT  
TO THE PETROLEUM TANK RELEASE  
COMPENSATION BOARD

---

Site: Lester Park Golf Course

Site ID#: LEAK00002536

Applicant: City of Duluth

Date of Application: October 9, 1991

Date of Underground Storage Tank Registration: October 8, 1986

---

1. Eligibility Determination

I hereby make the determinations, regarding the above-referenced petroleum tank release site, that the corrective action taken by the applicant was appropriate in terms of protecting public health, welfare, and the environment and that the applicant is eligible for Petrofund reimbursement, pursuant to Minn. Stat. § 115C.09, subd. 2, items (a) and (c) (1990).

2. Compliance with Applicable Requirements: INADEQUATE

Information readily available to the Minnesota Pollution Control Agency (MPCA) staff shows that the applicant has complied with the applicable requirements of Minn. Stat. § 115C.09, subd. 3(d)(1990) with the following exception:

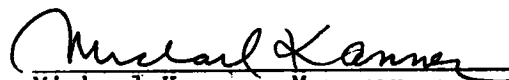
At the time of the release, the underground petroleum storage tanks did not have adequate leak detection measures in place as required by Minn. Rule pt. 7150.0310 and/or U.S. Environmental Protection Agency regulations, at 40 CFR § 280.41.

3. Reimbursement Reduction Recommendation:

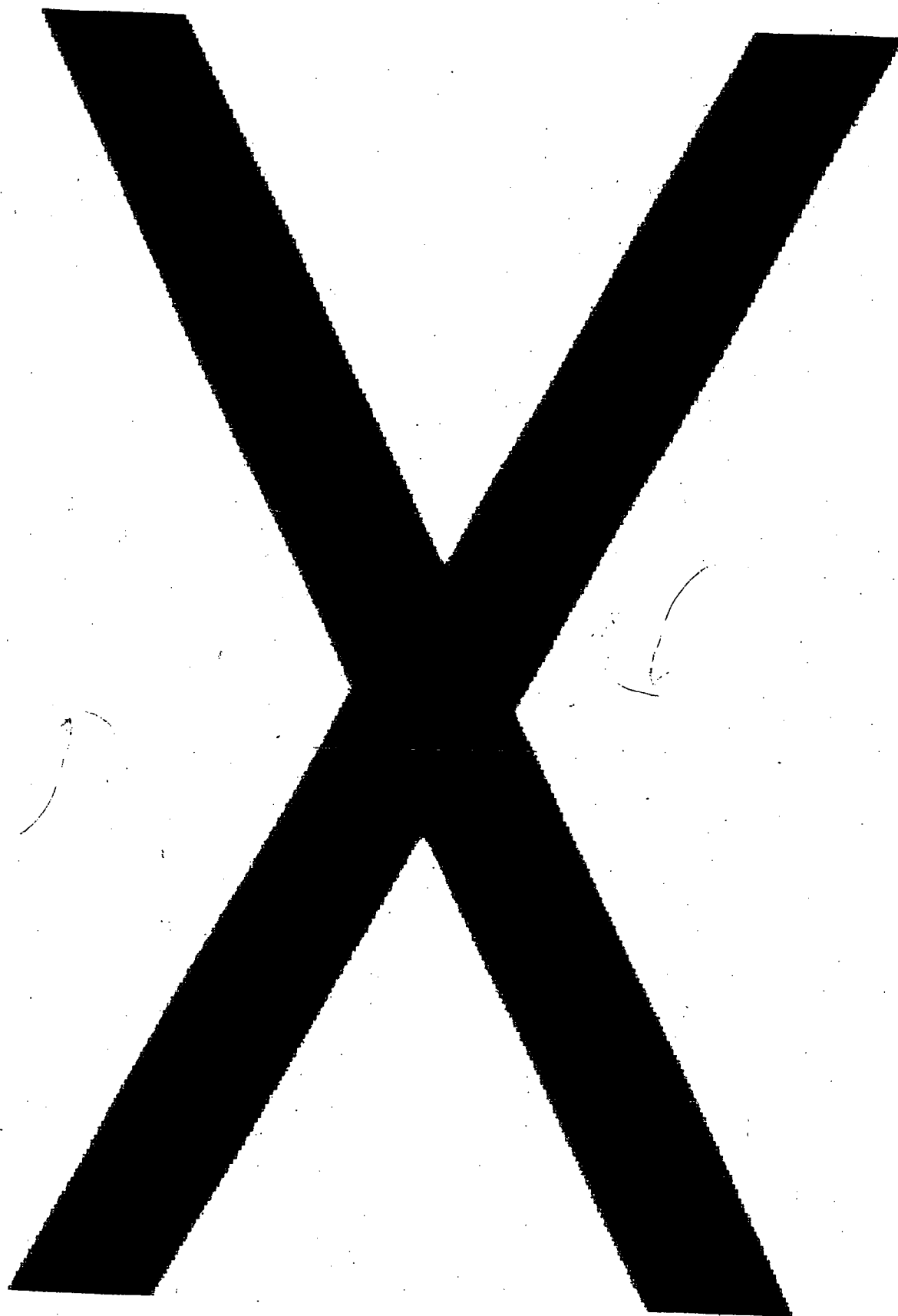
The MPCA staff recommends a reduction in the amount of reimbursement available to the applicant, under 1991 Minn. Laws ch. 175, § 5 (to be codified as Minn. Stat. 115C.09, Subd. 3(e)), based upon the compliance failure noted above.

The determinations in this report are made solely for the purpose of determining eligibility for reimbursement under Minn. Stat. § 115C.09, subds. 2 and 3 (1990). Nothing in this site report releases any person from liability, and the MPCA does not waive any of its authority to require additional corrective action at the above-referenced site or to enforce other provisions of state law.

Dated: Nov 26 1991

  
Michael Kanner, Manager  
Tanks and Spills Section  
Hazardous Waste Division









# Minnesota Pollution Control Agency

520 Lafayette Road, Saint Paul, Minnesota 55155-3898

Telephone (612) 296-6300

November 14, 1991

Mr. Bob Troolin  
City of Duluth  
313 City Hall  
Duluth, Minnesota 55802

Dear Mr. Troolin:

RE: Contaminated Soil Corrective Action Plan Approval  
Site: Lester Park Golf Course, 1860 Lester River Road, Duluth  
Site ID#: LEAK00002536

The Minnesota Pollution Control Agency (MPCA) staff has reviewed your Contaminated Soil Corrective Action Plan dated October 9, 1991, documenting the approval of treatment of contaminated soil and additional information relating to the petroleum tank release(s) at the above-referenced site. The MPCA staff hereby approves this plan.

This approval qualifies you under Minn. Stat. § 115C.09, subd. 2(a)(1) (supp. 1991) to be eligible for Petrofund reimbursement of eligible cleanup costs incurred up to the date of this letter. Applications for reimbursement must be made directly to the Petro Board. The Petro Board makes the final decision on reimbursement. Reimbursement decisions are based on factors such as the adequacy of cleanup, reasonableness of cost, compliance with notification laws, and cooperativeness with the MPCA.

You will be eligible to apply for reimbursement at several subsequent cleanup stages, provided that the necessary additional investigation and cleanup is conducted. The MPCA fact sheet "Petrofund Reimbursement Process" outlines these subsequent stages and the necessary submittals required at these stages.

The MPCA requests that the necessary additional investigation and cleanup continue and that the results are submitted in accordance with the following comments:

1. Complete all necessary investigation and cleanup and report the results in accordance with the MPCA document "Petroleum Tank Release Reports" (May 1991) and other appropriate MPCA technical documents.
2. The completed Remedial Investigation/Corrective Action Design (or Excavation Report, if excavation alone addressed the release) should be submitted to the




Mr. Bob Troolin  
Page 2  
November 14, 1991

MPCA no later than 120 days after the date of this letter. If you are unable to meet this deadline, please contact me. Failure to proceed in a timely manner with the necessary additional investigation and corrective action may result in a recommendation for reduction of Petrofund reimbursement.

If you have any questions, you may contact me at 612/297-8604.

Sincerely,

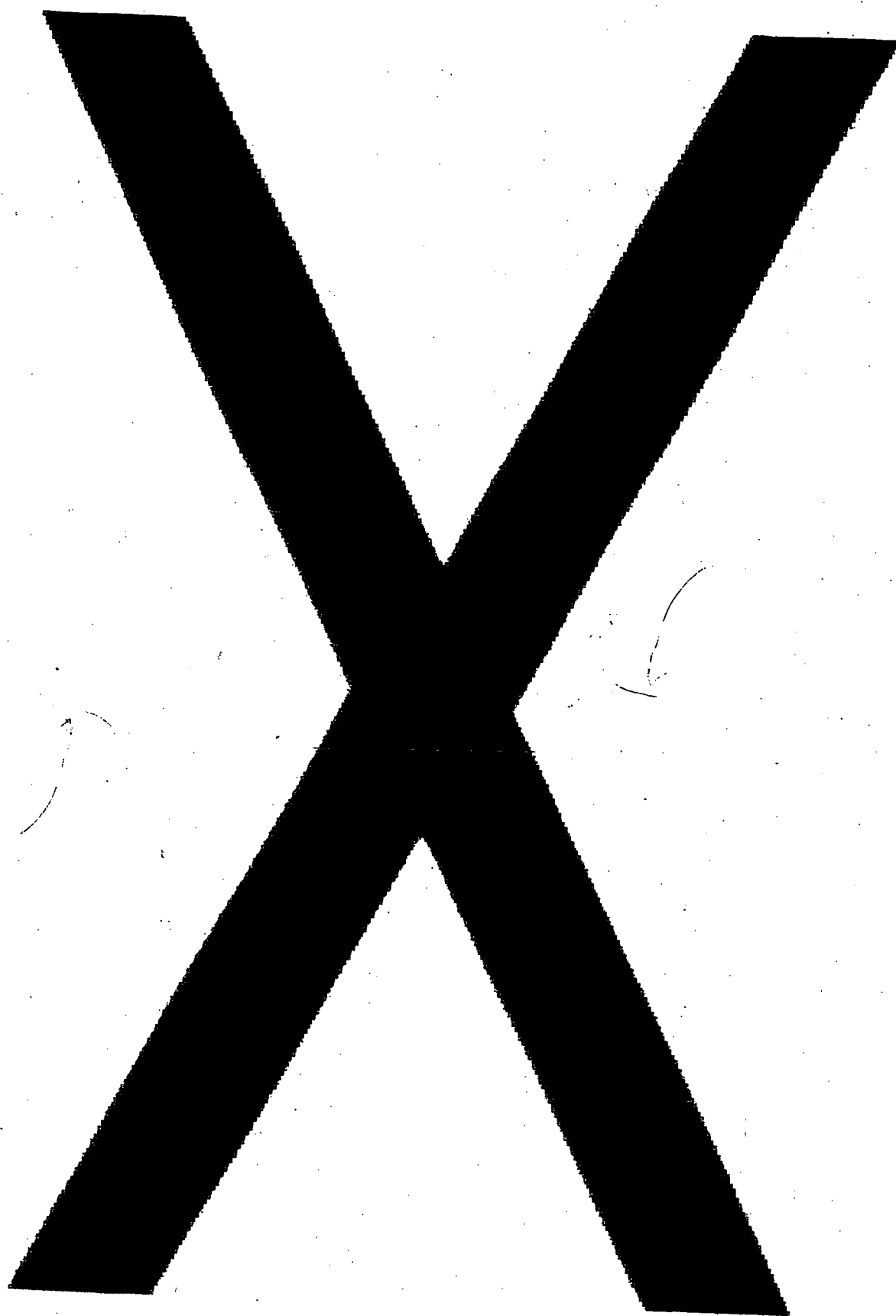


Christopher Zadak  
Pollution Control Specialist Senior  
Tanks and Spills Section  
Hazardous Waste Division

CZ:kra

cc: Robin Hanson, Department of Commerce, St. Paul









# CITY OF DULUTH

DEPARTMENT OF ADMINISTRATION

Administrative Services Division

313 City Hall • Duluth, Minnesota 55802-1195

218/723-3291

OCT 14 '91

October 10, 1991

MINNESOTA  
WASTE DIVISION

Chris Zadak  
Minnesota Pollution Control Agency  
Hazardous Waste Division  
Tanks and Spills Section  
520 Lafayette Road North  
St. Paul, Minnesota 55155

Dear Chris:

Enclosed are the Petroleum Contaminated Soil Corrective Action Worksheets for the below five sites. The City of Duluth has completed phase one. I have also completed the applications for reimbursement from the Petroleum Tank Release Compensation Board.

The five sites are:

<u>Leak #</u>	<u>Site Name</u>	<u>Dollar Amount</u>
2400	Far West	\$ 9,742.84
2536	Lester Park	\$ 9,011.82
2943	42nd Tool House	\$ 8,651.59
2619	Central Entrance	\$15,337.23
1005	2416 W. 9th Street	\$ 2,184.30

Thank you for your assistance.

Sincerely,

BOB TROOLIN, CSP  
Loss Control Manager

BT:blj:c

Enclosures



X



# I. SITE INFORMATION

Site: LESTER PARK GOLF COURSE  
Street: 1860 LESTER RIVER ROAD  
City, Zip: DULUTH, MN 55804  
County: ST. LOUIS

MPCA Site ID#: LEAK00002536

Tank owner/operator (or volunteer): CITY OF DULUTH  
Street/Box: 313 CITY HALL  
City, Zip: DULUTH, MN 55803  
Telephone: 218-723-3373

# II. TANK INFORMATION AND COMPLIANCE

**A. Underground Storage Tanks.** Complete the following information to reflect the status of your underground storage tanks at the time the release was discovered. Refer to the attachments "Do Underground Storage Tank And Piping Requirements Apply to Your Petroleum Tank?" and "What Do You Have To Do?/When Do You Have To Act?" to determine the applicability of registration, leak detection, corrosion protection, and spill/overfill protection. Indicate "YES" or "NO" for the presence or absence of leak detection, corrosion protection and spill/overfill protection.

Tank	Contents	Capacity	Type Of Tank	Date Installed	Date Registered	Date Tank & Piping Removed
1	<u>GAS</u>	<u>350</u>	<u>STEEL</u>	<u>6/1/75</u>	<u>10/8/86</u>	<u>4/24/90</u>
2	<u>UNKNOWN</u>	<u>265</u>	<u>STEEL</u>	<u>FOUND AT THE TIME OF EXCAVATION OF ABOVE TANK</u>		<u>4/24/90</u>
3	_____	_____	_____	_____	_____	_____
4	_____	_____	_____	_____	_____	_____
5	_____	_____	_____	_____	_____	_____

(Tanks Continued)

Tank	Tank			Piping		
	Leak Detection	Corrosion Protection	Spill/Overfill Protection	Type of Piping	Leak Detection	Corrosion Protection
1	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
2	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
3	_____	_____	_____	_____	_____	_____
4	_____	_____	_____	_____	_____	_____
5	_____	_____	_____	_____	_____	_____



- Date 10-day tank removal notice given to MPCA: 4/24/90 *PHONE CALL TO THE DULUTH PCA OFFICE*  
*LETTER SENT ON 5/2/90*

- If the tank(s) involved in the release were removed after July 9, 1990, complete the following:

Removal Contractor: \_\_\_\_\_  
Certification Number: \_\_\_\_\_

- If the tank(s) involved in the release were installed after July 9, 1990, complete the following:

Installation Contractor: \_\_\_\_\_  
Certification Number: \_\_\_\_\_

**B. Aboveground Storage Tanks.** Complete the following information to reflect the status of your aboveground storage tanks at the time the release was discovered. The registration requirements for aboveground storage tanks are based on the same criteria as the registration requirements for underground storage tanks--refer to the attachments "Do Underground Storage Tank And Piping Requirements Apply to Your Petroleum Tank?" In describing your secondary containment, specify the materials used in the construction of both the base and the walls.

Tank	Contents	Capacity	Date Installed	Date Registered	Description of Secondary Containment
1	_____	_____	_____	_____	_____ _____
2	_____	_____	_____	_____	_____ _____
3	_____	_____	_____	_____	_____ _____
4	_____	_____	_____	_____	_____ _____
5	_____	_____	_____	_____	_____ _____



May 1991

### III. SOIL TREATMENT APPROVAL INFORMATION

Treatment used/proposed: ("X" the option)

- ☒ Landfarming  
☐ Thermal Treatment (indicate treatment facility \_\_\_\_\_)  
☐ Other (Specify \_\_\_\_\_)

Date MPCA approved soil treatment\* : 11/14/90

\*If thermal treatment was used/proposed after May 1, 1991, indicate date that the MPCA-permitted thermal treatment facility agreed to accept the soil. Also, unless previously submitted, attach a copy of the thermal treatment application signed by the thermal treatment facility.

### IV. PRELIMINARY SITE INVESTIGATION RESULTS

1. Was all soil contaminated above action levels removed from the base and side walls of the excavation? (Soil action levels are described in the MPCA document "Excavation of Petroleum Contaminated Soil" (May 1, 1991))

YES NO

2. Have petroleum vapors been noticed in utilities or buildings?

YES NO

If ground water has not been encountered up to this point in the investigation, go to section V; If ground water has been encountered, continue.

3. Was free product observed on ground water (including perched ground water) in the excavation, soil borings, or in monitoring wells?

YES NO

If free product is found, it must be reported to the MPCA within 24 hours as described in the MPCA document "Petroleum Tank Release Reports" (May 1, 1991). If more than 0.1 foot (approximately one inch) of product is present you will most likely be required to install a product recovery system. Preparations for a product recovery system should begin immediately. All recoverable free product should be removed from the excavation and properly disposed of. Notify the MPCA Tanks and Spills staff of the design and installation of the product recovery system, but do not wait to start the system--it is crucial to begin product recovery as soon as possible. If less than 0.1 foot of product is found, the need for recovery will be based on the results of the Remedial Investigation.

5. Was there a petroleum sheen on the ground water?

IN THE EXCAVATION - WATER PUMPED OUT

YES NO

6. Are there any shallow wells on the site or adjoining properties?

YES NO



V. INDIVIDUAL PREPARING THIS WORKSHEET

Company Name: CITY OF DULUTH  
Street/Box: 313 CITY HALL  
City, Zip: DULUTH, MN 55802  
Telephone: 218-723-3373  
Contact: BOB TROOLIN

Signature Bob Troolin

Date: 10/9/91

Please mail this worksheet and all necessary attachments to:

(Project Manager)  
Minnesota Pollution Control Agency  
Hazardous Waste Division  
Tanks and Spills Section  
520 Lafayette Road North  
Saint Paul, Minnesota 55155



X



DEPARTMENT : MN Pollution Control Agency - Duluth

STATE OF MINNESOTA

## Office Memorandum

DATE : January 7, 1991

TO : Chris Zadak  
Tanks and Spills Section  
Hazardous Waste DivisionFROM : Tim Musick *TMM*  
Regional Specialist

RECEIVED

JAN 09 1991

MPCA, HAZARDOUS  
WASTE DIVISION

PHONE : 218-723-4660

SUBJECT : Cliff Anderson's Multiple Land Application Site, Duluth, MN

On November 6, 1990, Cliff Anderson, Mike Rose and I visited Cliff's multiple land application site for petroleum contaminated soil. The site is located off County Road #4 near the Duluth airport and sanitary landfill.

At the time of this inspection, all of the contaminated soil taken to this site had been spread. According to my calculations, approximately 3500 cu. yds. have been delivered to this land application site. However, in reviewing the attached site map provided by Mr. Anderson, only about 2.5 acres (106,000 sq. ft.) have been used to spread the estimated 3500 yds. of contaminated soil. Since we calculate about 530 yds. per acre at a 4 inch thickness, the soil appears to have been spread too thick. although, the undulating surface of the ground plus the then allowable 6 inch spreading depth for area 1 on the site map may account for some of the discrepancies.

Despite the apparent thicker than acceptable soil depths, this site should eventually provide us with "clean" soil but additional discing, fertilization and time may be required. The attached soil analysis of the older area 1 (on the site map) provides us with some evidence that the soil can be cleaned despite the thicker application rates.

In Mr. Anderson's defense, most of the soil taken to his site was the heavy red clay typical of the Duluth area. This type of clay is difficult to handle even under the best of conditions, i.e. ideal moisture content. The attached photos, especially the first photo (area #1), show the furrowing technique Mr. Anderson used to mix the clay soil with the native soil. This particular area had clay that was either too wet or too dry to allow the typical discing technique. Instead, the blade of a cat was used to mix the contaminated soil with the native soil but the technique creates the higher furrow appearance.

If you have any questions concerning the contents of this memo or the attachments feel free to call me.

TAM:ph

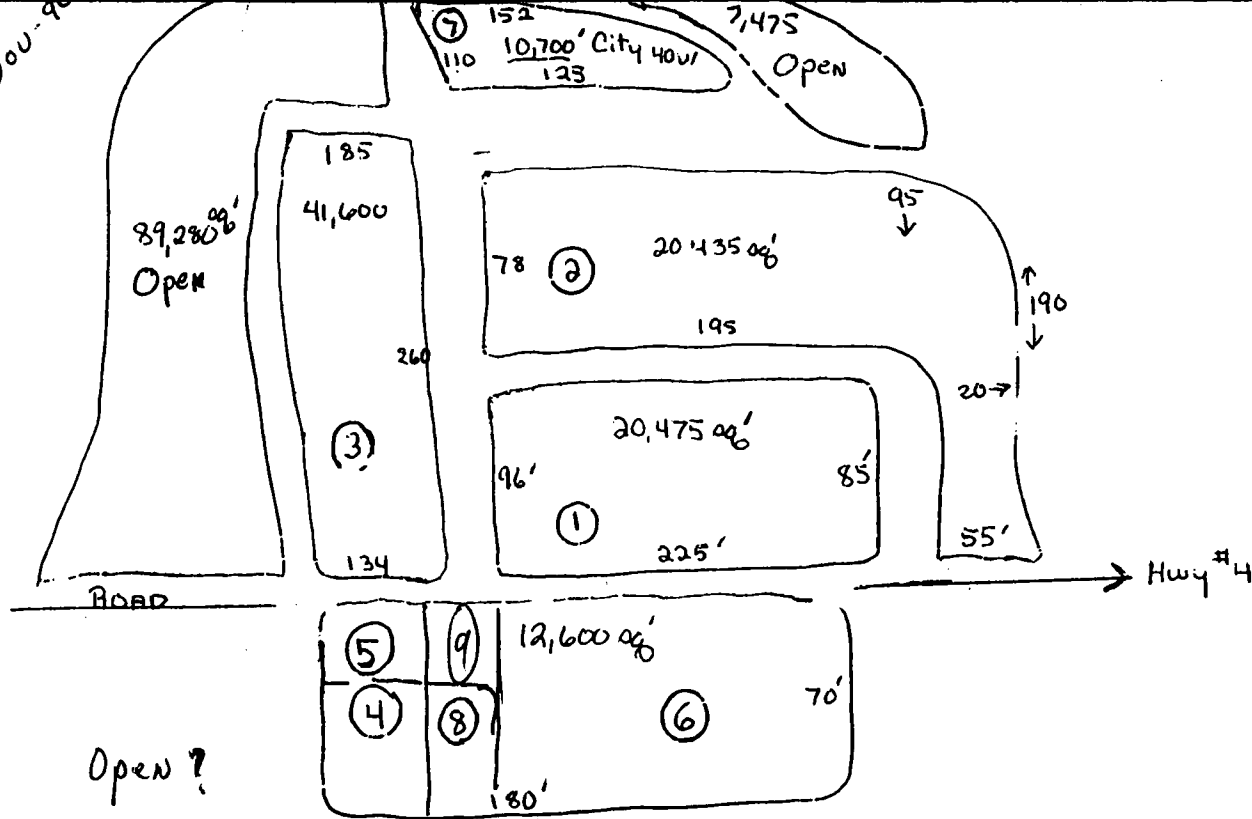
cc: Ann Bidwell, Tanks and Spills Section  
Hazardous Waste Division, MPCA

Photos in file LEAK 1876

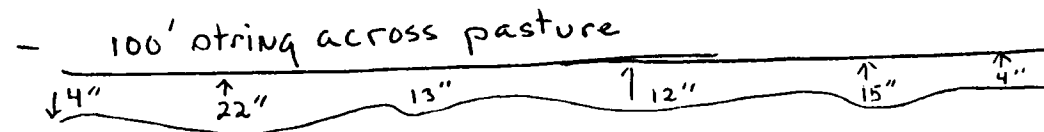
PCA04-1647



Nov-90



- ① Combined City Sites
  - ② Arrowhead Black Top
  - ③ City 59th W
  - ④ Lighthouse/Blind
  - ⑤ Benning Park
  - ⑥ Combined City Sites
  - ⑦ City of Duluth 40th W
  - ⑧ St. Ben. Church
  - ⑨ Salvation Army
- 1- We hauled  
 2- Arrowhead hauled  
 3- Waltham hauled  
 4- We hauled  
 5- We hauled  
 6- We hauled  
 7- City hauled  
 8- We hauled  
 9- We hauled



The only way to get 4" is on road or graded area

- Estimated quantity loading
- Material fluffed up in digging
- Settling on site - natural + rain

Tim  
 or  
 Mike





# SERCO Laboratories

1931 West County Road C2 St. Paul, Minnesota 55113 (612) 636-7173

080 031890

INPC - DULUTH  
DULUTH, MN

LABORATORY ANALYSIS REPORT NO: 3625  
11/21/90

Anderson Sand & Gravel  
4597 Old Hwy. 53  
Saginaw, MN 55779

DATE COLLECTED: 11/12/90  
DATE RECEIVED: 11/13/90  
COLLECTED BY: CLIENT  
DELIVERED BY: CLIENT  
SAMPLE TYPE: SOIL

Attn: Cliff Anderson

WG
TN
PAGE 1
30
SL
RAI
JE

SERCO SAMPLE NO: 105640 105650 105660

SAMPLE DESCRIPTION: Sample 1 Sample 2 Sample 3  
West Middle East

## ANALYSIS:

Benzene, mg/kg	0.006	0.008	<0.005
Toluene, mg/kg	<0.005	<0.005	<0.005
Ethylbenzene, mg/kg	<0.005	<0.005	<0.005
Xylene, mg/kg	0.007	0.006	0.009
FID Scan, mg/kg, as gasoline	<0.50	<0.50	<0.50
FID Scan, mg/kg, as #2 fuel oil	<2.0	<2.0	<2.0

All analyses were performed using EPA or other accepted methodologies. Samples that may be of an environmentally hazardous nature will be returned to you. Other samples will be stored for 30 days from the date of this report, then disposed of by SERCO LABORATORIES. Please contact me if other arrangements are needed.

Report submitted by,

*Jerome Kosteletzky*  
Jerome A. Kosteletzky  
Project Manager

Site # 1  
Combined City of Duluth  
Hwy 4

- 3 sections  
grab sample  
- Cliff  
sampled  
his own  
(Dane)  
(according  
lab  
instruction)

< means "not detected at this level". 1 mg = 1000 ug.



Member

PCA04-1649



CHAIN OF CUSTODY

LABORATORIES  
31 WEST COUNTY ROAD C2  
T. PAUL, MN. 55113  
12-636-7173  
AX 612-636-7178

SAMPLING ADDRESS: Hwy Site # 4

COMPANY: C. Anderson

SAMPLER: C. A. Anderson  
(SIGNATURE)

ADDRESS: 4597 Old Hwy 53

PROJECT SUPERVISOR: Jerome Kastelocky  
~~S. JAMES~~

Saginaw, MN 55779

SAMPLE LOT NUMBER ① DISCREPANCY YES NO

TELEPHONE: 218 729 9433

COOLER NUMBER SL 59 CLIENT NOTIFIED \_\_\_\_\_

AX: \_\_\_\_\_

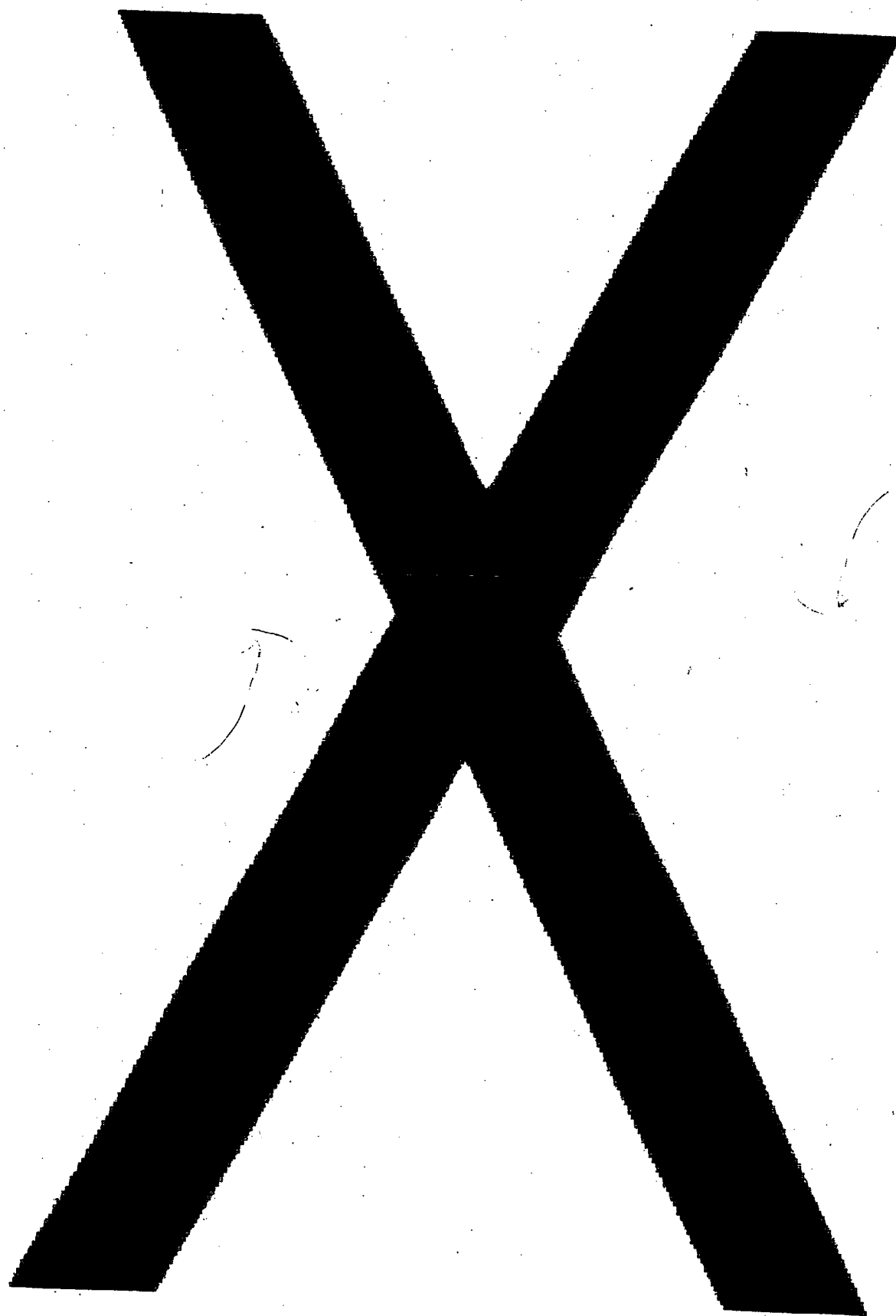
TEMPERATURE OF COOLER ON  
RECEIPT AT LABORATORY

SAMPLE NUMBER	DATE	TIME	METHOD	SAMPLE TYPE	SITE LOCATION	NUMBER AND TYPE OF BOTTLES	REMARKS
1	Nov 12-90	9:	Dig		W	1	
2	"		"		middle	1	
3	"		"		East	1	

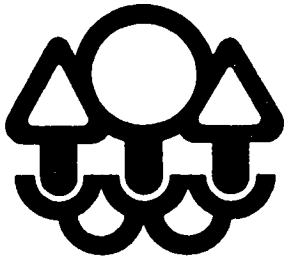
RELINQUISHED BY	DATE	TIME	RECEIVED BY (SIGNATURE AND COMPANY)
			AM PM <u>Paul Jensen SERCO</u> <u>11/13/90</u> <u>11:00</u>
			AM PM
			AM PM
			AM PM
			AM PM

*Site #1  
Combined City of Duluth  
Tubs*









Minnesota Pollution Control Agency



LAND APPLICATION APPROVAL

November 14, 1990

Mr. Robert Troolin  
City of Duluth  
313 City Hall  
Duluth, Minnesota 55802

Dear Mr. Troolin:

RE: Approval of Land Application of Petroleum Contaminated Soil  
Site:  
Site ID#: LEAK00002536

The application submitted by your consultant dated September 6, 1990, to land apply approximately 396 cubic yards of petroleum contaminated soil is hereby approved by staff of the Minnesota Pollution Control Agency (MPCA). This approval is based upon the MPCA staff's understanding that the appropriate county and local officials have been notified and/or have given approval for the land application of this soil and is subject to the following additional conditions:

1. Stockpiled soils shall be protected from infiltration and runoff prior to land application.
2. Soil shall be applied to land located in St. Louis County, City of Duluth, NW $\frac{1}{4}$  of SE $\frac{1}{4}$  of Section 6, Twp. 50N, Range 14W.
3. Soils shall be spread to a thickness of no more than four inches and incorporated into the top six inches of native soil per MPCA document "Land Application of Petroleum Contaminated Soil: Single Application Site" (April 25, 1990). Soils shall be disked once per month during the growing season.
4. The land-applied soil shall be sampled and reports shall be submitted in accordance with part III.C of the attached MPCA land application document until analyses indicate 10 parts per million total petroleum hydrocarbons or lower. The attached MPCA form entitled "Soil Monitoring Results for Land-Applied Petroleum Contaminated Soil" should be used for reporting.

320 West Second Street, Duluth, Minnesota 55802, Phone 218/723-4660  
Regional Offices: Duluth • Brainerd • Detroit Lakes • Marshall • Rochester

Equal Opportunity Employer

Printed on Recycled Paper

PCA04-1651



Mr. Robert Troolin  
Duluth, Minnesota  
Page Two

We believe these actions will provide adequate treatment of petroleum contaminated soils. The MPCA reserves the right to require additional work if this is determined to be necessary to protect public health and the environment. This letter does not release any party from liability for this contamination.

Please contact me at 218-723-4660, if you have any further questions.

Sincerely,



Timothy A. Musick  
Regional Specialist  
Tanks and Spills Section  
Hazardous Waste Division

cc: Chris Zadak, Project Leader, Tanks & Spills Section, Hazardous Waste Division,  
MPCA, St. Paul  
John Jubala, Zoning Administrator, St. Louis County Health Department,  
1001 East First Street, Duluth, MN 55802-2242  
Rick Hogle, Twin Ports Testing, Inc.,  
1301 North Third Street, Superior, Wisconsin 54880



Minnesota Pollution Control Agency  
Tanks and Spills Section  
April 25, 1990

Refer to the Minnesota Pollution Control Agency (MPCA) document "Land Application of Petroleum Contaminated Soil: Single Application Sites" for specific information on acceptable soil and site criteria.

# I. BACKGROUND INFORMATION

A. Tank owner/operator mailing address:  
contaminated

Contact: Mr. Bob Trowlin  
Company name: City of Duluth  
Street/Box: 313 City Hall  
City, Zip: Duluth, Minnesota 55802  
Telephone: 218-723-3291

B. Site from which

soil originated: Lester Park  
Golf Course  
Company name: City of Duluth  
Street: 1860 Lester River Road  
City, Zip: Duluth, ST 55804  
County: ST. Louis

C. Address or legal description  
of land spreading site:

Contact: Elita Anderson  
Street: County Rd #4 / Airport Rd.  
City, Zip: Duluth, Minnesota 55811  
Telephone: 218-124-9433

D. Consultant (or other)  
preparing this form:

Contact: Rick Hoglund / Jack  
Company name: Twin Ports Testing  
Street/Box:  
City, Zip: Superior  
Telephone: 715-392-7114

NW 1/4 of SE 1/4 of Section 6,  
Township 50N, Range 14W Township Name City of Duluth

E. MPCA Site ID#: LEAK0000 2536

F. Volume of soil to be land applied (cubic yards): (396 yds)<sup>3</sup>

G. Projected date of application of soil:

H. Have there been past waste disposal activities at the proposed site?  
No \_\_\_ Yes X, please explain. It is a MPCA multiple use site  
for land application of petroleum  
contaminated soils.

# II. SITE AND SOIL CHARACTERISTICS

- A. Site slope (percent): \*
- B. Distance to surface water (feet or miles): \*
- C. Distance to nearest building or residence (feet): \*
- D. Depth to seasonal high water table (feet): \*
- Depth to field tile lines (feet): \*
- If bedrock exists at 8 feet or less, indicate depth (feet): \*
- E. Area of land to be used (square feet or acres): \*
- F. Spreading thickness (inches): \*

# III. SOIL SAMPLING RESULTS

A. If soil nutrient tests were conducted, list the results below:

Sample Number	Organic Matter, Percent	Extractable Phosphorus, ppm
*		
*		
*		

PCA04-1653

\* For site specific characteristics please see MPCA records



## Application to Land Apply Petroleum Contaminated Soil

Page 2

April 25, 1990

If fertilizers will be applied, provide application rates:

\_\_\_\_ lbs. nitrogen/acre, \_\_\_\_ lbs. P2O5/acre, \_\_\_\_ lbs. sulfur/acre

- B. Circle the type(s) of petroleum contamination: unleaded gas, regular gas, diesel fuel, No. 2 fuel oil, waste oil, other (please specify \_\_\_\_\_)

List the appropriate soil sample analytical results from the excavated contaminated soil (refer to the MPCA document "Soil and Ground Water Analysis at Petroleum Release Sites"). If the petroleum was not gasoline or fuel oil attach a separate table.

Sample Number	THC as gas or FO ppm	Benzene ppm	Ethyl-benzene ppm	Toluene ppm	Xylene ppm	MTBE ppm	Lead ppm
<u>SS-2</u>	<u>230</u>	<u>3.3</u>	<u>2.3</u>	<u>8.3</u>	<u>20</u>	_____	<u>38</u>
<u>SS-16</u>	<u>120</u>	<u>BDL</u>	<u>0.29</u>	<u>BDL</u>	<u>0.97</u>	_____	<u>23</u>
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

NOTE: ATTACH COPIES OF LABORATORY RESULTS AND CHAIN OF CUSTODY FORMS

## IV. FIGURES

Include the following figures:

- A. Copy of county soil survey map (if the county has been mapped) with copies of the interpretation tables or interpretation sheets.  
B. Site location map with exact application location marked (scale should be approximately one inch = 50 feet)

\*\*\*\*\*

Signature and Title of MPCA Staff Inspector (or other authorized inspector):

Michael J. [Signature]Date Inspected : 11-06-90

Signature and Title of County Official: \_\_\_\_\_

Signature and Title of City/Township Official: \_\_\_\_\_

\*\*\*\*\*

Mail to:

Minnesota Pollution Control Agency  
Attention: (Project Manager)  
Hazardous Waste Division  
Tanks and Spills Section  
520 Lafayette Road  
St. Paul, Minnesota 55155

PCA04-1654



**TABLE 2****Summary of Soil Sample Analysis**

**Lester Park Golf Course  
1860 Lester River Road  
Duluth, Minnesota 55804**

**TPT #91-90E**

Sample #	SS #2	SS #6	SS #5	SS #7	SS #16	SS #14
Location	Below tank	Bottom test hole #1	Bottom center of excav.	Bottom test hole #2	Bottom E of center of excav.	North wall W of center of excav.
Depth	7'	6 1/2'	10'	6 1/2'	8'	
Benzene (ppm)	3.3	<0.005	<0.005	<0.01 (C)	<0.01 (C)	<0.005
Ethylbenzene (ppm)	2.3	0.007	<0.005	0.52	0.29	<0.005
Toluene (ppm)	8.3	<0.005	<0.005	<0.01 (C)	<0.01 (C)	<0.005
Xylene (ppm)	20	0.016	0.011	0.42	0.97	0.006
FID Scan Total Hydrocarbons as Fuel Oil (ppm)	(A)	<2.0	<2.0	140	120	<2.0
FID Scan Total Hydrocarbons as Gasoline (ppm)	230	<0.50	<0.50	(B)	(B)	<0.50
Lead, as Pb (ppm)	38	12	17	14	23	13

(A) = Unable to quantify due to presence of gasoline

(B) = Unable to quantify due to presence of fuel oil

(C) = Increased detection limits due to high level of contamination





# SERCOCO Laboratories

REC'D JUN 5 1990

931 West County Road C2 St. Paul, Minnesota 55113 (612) 636-7173

LABORATORY ANALYSIS REPORT NO: 1131  
06/01/90

PAGE 1

Twin Ports Testing  
1301 North Third Street  
Superior, WI 54880

DATE COLLECTED: 05/03/90; 05/07/90  
DATE RECEIVED: 05/09/90  
COLLECTED BY : CLIENT  
DELIVERED BY : CLIENT  
SAMPLE TYPE : SOIL

Attn: Jack Granquist

SERCOCO SAMPLE NO:	34140	34150	34160	34170
SAMPLE DESCRIPTION:	SS#2 91-90E Lester Golf	SS#6	SS#5	SS#7
ANALYSIS:				
Benzene, mg/kg	3.3	<0.005	<0.005	<0.01(C)
Ethylbenzene, mg/kg	2.3	0.007	<0.005	0.52
Toluene, mg/kg	8.3	<0.005	<0.005	<0.01(C)
Xylene, mg/kg	20	0.016	0.011	0.42
FID Scan, mg/kg, as #2 fuel oil	(A)	<2.0	<2.0	140
FID Scan, mg/kg, as gasoline	230	<0.50	<0.50	(B)
Lead, mg/kg as Pb	38	12	17	14

SERCOCO SAMPLE NO:	34180	34190
SAMPLE DESCRIPTION:	SS#16	SS#14

ANALYSIS:	
Benzene, mg/kg	<0.01(C) <0.005
Ethylbenzene, mg/kg	0.29 <0.005
Toluene, mg/kg	<0.01(C) <0.005
Xylene, mg/kg	0.97 0.006
FID Scan, mg/kg, as #2 fuel oil	120 <2.0
FID Scan, mg/kg, as gasoline	(B) <0.50
Lead, mg/kg as Pb	23 13

- (A) Unable to quantify due to the presence of gasoline.  
(B) Unable to quantify due to the presence of fuel oil.  
(C) Increased detection limits due to high level of contamination.



PCA04-1656





# SERCO Laboratories

REC'D JUN 5 1990

1931 West County Road C2, St. Paul, Minnesota 55113 (612) 636-7173

LABORATORY ANALYSIS REPORT NO: 1131  
06/01/90

PAGE 2

All analyses were performed using EPA or other accepted methodologies. Samples that may be of an environmentally hazardous nature will be returned to you. Other samples will be stored for 30 days from the date of this report, then disposed of by SERCO LABORATORIES. Please contact me if other arrangements are needed.

Report submitted by,

Diane J. Anderson  
Project Manager

PCA04-1657

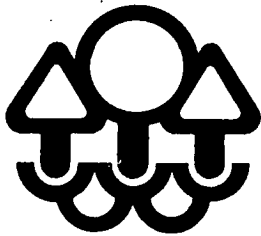


1 mg = 1000 ug.



X





# Minnesota Pollution Control Agency

520 Lafayette Road, Saint Paul, Minnesota 55155

Telephone (612) 296-6300



Mr. Bob Troolin  
City of Duluth  
313 City Hall  
Duluth, Minnesota 55802

August 24, 1990

Dear Mr. Troolin:

RE: Incomplete Tank Release Reports

Sites: Lester Park Golf Course, 1860 Lester River Road, Duluth  
(LEAK00002536)  
Parks & Recreation Toolhouse, 101 W. 42nd Street, Duluth  
(LEAK00002943)  
City Hall and Police Garage, 411 West First Street, Duluth  
(LEAK00003084)  
City of Duluth Toolhouse, 103 East Central Entrance, Duluth  
(LEAK00002619)

The Minnesota Pollution Control Agency (MPCA) has received excavation reports for the above-referenced sites. Due to our increasing workload it is MPCA Tanks and Spills Section policy that excavation reports which indicate that a follow-up remedial investigation (RI) is necessary will not be reviewed by MPCA staff until the RI and corrective action design (if needed) has been completed. This policy is discussed in both MPCA documents "Excavation of Petroleum Contaminated Soil" and "Petroleum Tank Release Reports" which have been enclosed in previous correspondence.

Also, there are three other City of Duluth sites which the MPCA may be able to close at this time, but we are unable to do so due to the lack of follow-up soil monitoring at the land application site used. The leaksites are the Gary Recreation Center (LEAK00001876), the Sewer Maintenance Toolhouse (LEAK00002620), and the Duluth Public Library (LEAK00002923). When we received the monitoring information, along with confirmation that the land application procedures have been carried out in accordance with our guidelines, we will consider these sites for closure. The enclosed MPCA document "Land Application of Petroleum Contaminated Soil" describes the procedures for land application and monitoring.

If you have any questions please call me at 612/643-3457.

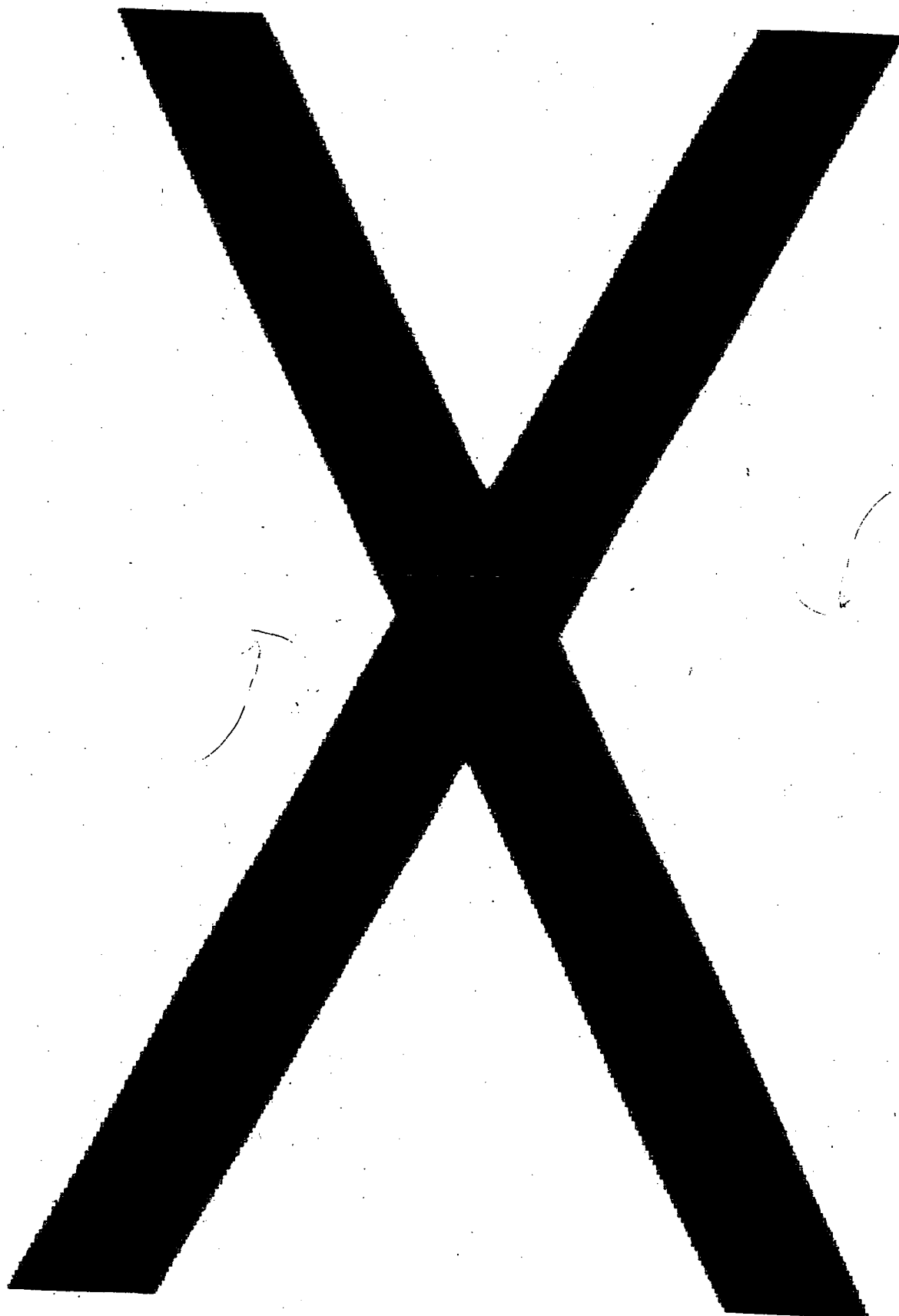
Sincerely,

Christopher Zadak  
Pollution Control Specialist  
Tanks and Spills Section  
Hazardous Waste Division  
CZ:ts

cc: Jack Granquist, Twin Ports Testing  
Zandy Zweibel, Twin Ports Testing  
Rick Palm, Twin Ports Testing

PCA04-1658









# CITY OF DULUTH

DEPARTMENT OF ADMINISTRATION

Administrative Services Division

313 City Hall • Duluth, Minnesota 55802-1195  
218/723-3291

**RECEIVED**

AUG 17 1990

**MPCA, HAZARDOUS  
WASTE DIVISION**

August 9, 1990

Minnesota Pollution Control Agency  
Hazardous Waste Division  
Tanks and Spills Section  
Sixth Floor  
520 Lafayette Road North  
St. Paul, Minnesota 55155

Attn: Chris Zadak

Re: Underground storage tank removal

Dear Chris:

On April 24, 1990, the City of Duluth removed two underground storage tanks from the Lester Park Golf Course located at 1860 Lester River Road. The Minnesota Pollution Control Agency Site Identification number is LEAK00002536.

Enclosed with this letter is Twin Ports Testing's Excavation and Petroleum Release Report for the Lester Park Golf Course Maintenance Shop.

Thank you for your assistance.

It should also be noted that there were contaminants at this location.

Sincerely,

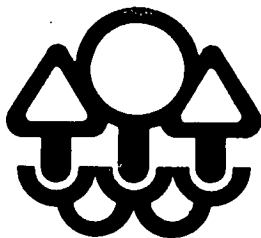
BOB TROOLIN, CSP  
Loss Control Manager

BT:blj:c



X





# Minnesota Pollution Control Agency

520 Lafayette Road, Saint Paul, Minnesota 55155

Telephone (612) 296-6300



May 30, 1990

Mr. Bob Troolin  
City of Duluth  
313 City Hall  
Duluth, Minnesota 55802

Dear Mr. Troolin:

RE: Petroleum Storage Tank Release Investigation and Corrective Action  
Site: Lester Park Golf Course, 1860 Lester River Road, Duluth  
Site ID#: LEAK00002536

The Minnesota Pollution Control Agency (MPCA) has received notification that a release of petroleum has occurred from storage tank facilities which the City of Duluth owns and/or operates.

Federal and state laws require that persons legally responsible for storage tank releases notify the MPCA of the release, investigate the extent of the release and take actions needed to ensure that the release is cleaned up. A person is generally considered legally responsible for a tank release if the person owned or operated the tank either during or after the release.

We are aware that an initial investigation of the site has occurred and petroleum contaminated soils and/or ground water have been identified. The MPCA staff is therefore requesting you to take the necessary steps to investigate and clean up the release in accordance with the enclosed "Outline for Petroleum Tank Release Investigation Report." If you have not already done so, we recommend that you hire a qualified consulting firm who has experience in conducting petroleum release site investigations and taking corrective actions. In addition, you must notify the MPCA within 24 hours if you discover free-floating petroleum product on the surface of the ground water.

If you do perform the requested work, the state may reimburse you for a major portion of your costs. The Petroleum Tank Release Cleanup Act establishes a fund which in certain circumstances provides partial reimbursement for petroleum tank release cleanup costs. This fund is administered by the Petroleum Tank Release Compensation Board (Petro Board). More specific eligibility rules are available from the Petro Board (612/297-4017).

Please respond to this letter either in writing or by telephone within 30 days after you receive it. Indicate whether or not you intend to proceed with the necessary actions, whom you have chosen to do the work, and a schedule for implementation. Please use the site ID number at the top of this page on all written communication.



Mr. Bob Troolin  
Page 2  
May 30, 1990

If you do not respond within 30 days, MPCA staff will assume you do not intend to comply with this request. In this event, the MPCA Commissioner may order you to take corrective action at the site. If you do not comply with the Commissioner's order, it may be enforced in court or, alternatively, the MPCA could spend its own money cleaning up the release and then seek to recover its costs from you or other responsible persons through legal action. Failure to cooperate with the MPCA in a timely manner may also result in reduced reimbursement from the Petro Board.

If you conclude that the release in question is not from any tank which you have owned or operated, please notify the MPCA immediately and explain the basis of your conclusion.

A packet of fact sheets is enclosed for your information.

For site specific questions, contact the site's project manager, Christopher Zadak, at 612/643-3457. In addition, all future correspondence should be addressed to the above mentioned project manager. If you have any general questions regarding the leaking underground storage tank program please call me at 612/643-3435.

Thank you.

Sincerely,



Brenda Heck  
Pollution Control Specialist  
Tanks and Spills Section  
Hazardous Waste Division

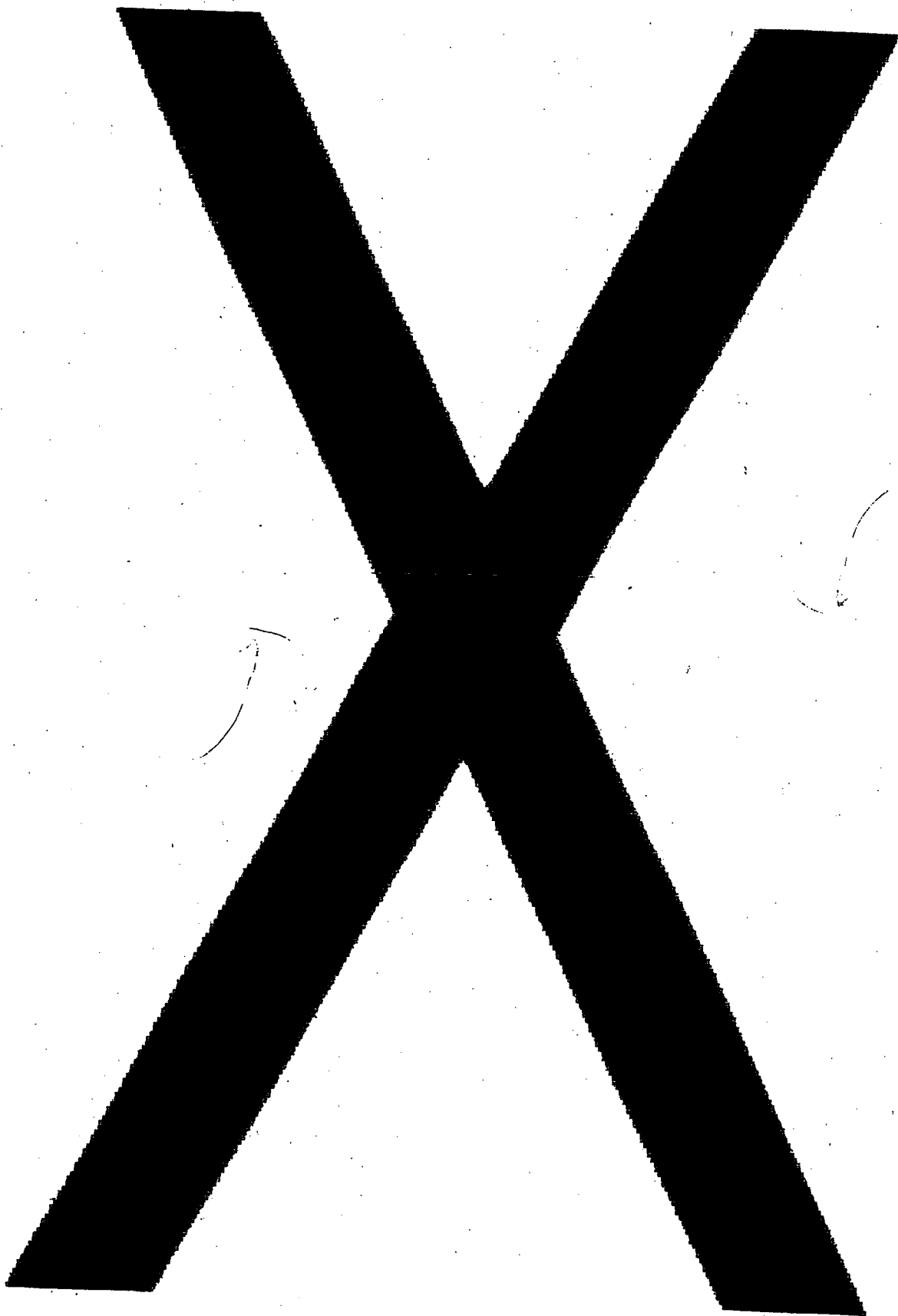
BJH:kmf

Enclosures

cc: Jeffery Cox, City Clerk, Duluth  
Larry Bushey, Fire Chief, Duluth

PCA04-1663







# REMEDIAL INVESTIGATION REPORT

**RECEIVED**

FEB 20 1998

MPCA, HAZAR. WASTE  
WASTE DIVISION

**CITY OF DULUTH  
LESTER PARK GOLF COURSE  
1860 LESTER RIVER ROAD  
DULUTH, MN 55804**

**MPCA LEAK # 2536**

**PREPARED FOR:  
MR CHUCK FAEGRE  
CITY OF DULUTH  
313 CITY HALL  
DULUTH, MN 55802**

**PREPARED BY:  
  
REMEDIATION SERVICES, INC.  
102 SOUTH 29TH AVENUE WEST, SUITE 100  
DULUTH, MN 55806**

**JANUARY 1998**

**PCA04-1399**





**Tanks and Emergency Response Section  
Minnesota Pollution Control Agency**

**Remedial Investigation Report Form**

Fact Sheet #3.24

April 1996

This form must be completed for all sites in which a remedial investigation (RI) is conducted--this includes either a *Limited Site Investigation (LSI)* or a *full RI*. Completing this form will provide the MPCA with the minimum amount of information necessary for a *full RI*. Additional information should be included if deemed important for making a site cleanup decision. If the consultant has concluded that a *Limited Site Investigation* is applicable to this site, Section 6 and Section 7 may be deleted from this report.

Refer to MPCA fact sheet #3.19 "Leaking Underground Storage Tank Investigation and Cleanup Policy" for guidance for the overall objectives of an RI and other MPCA fact sheets regarding investigations.

When a tank has been excavated, refer to fact sheets #3.6 "Excavation of Petroleum Contaminated Soil" and #3.7 "Excavation Report Worksheet for Petroleum Release Sites" for reporting requirements.

If free product is discovered, the initial reporting should be done in accordance with fact sheet #3.3 "Free Product: Evaluation and Recovery" and factsheet #3.4 "Free Product Recovery Report Worksheet."

Leak Number: LEAK0000 2536 Date: 1/29/98

Responsible Party: City of Duluth R.P. phone #: (218) 723-3373

Facility Name: City of Duluth, Lester Park Golf Course

Facility Address: 1860 Lester River Road City: Duluth

County: St. Louis Zip Code: 55804

Location of site: LAT: 5189000mN LONG: 576000mE Circle one: UTM/State



## **TABLE OF CONTENTS**

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SECTION 1: Emergency and High Priority Sites

SECTION 2: Site and Release Information

SECTION 3: Excavated Soil Information

SECTION 4: Extent and Magnitude of Soil Contamination

SECTION 5: Aquifer Characteristics/Ground Water Contamination Assessment

SECTION 6: Extent and Magnitude of Groundwater Contamination

SECTION 7: Evaluation of Natural Biodegradation

SECTION 8: Well Receptor Information/Assessment

SECTION 9: Surface Water Risk Assessment

SECTION 10: Vapor Risk Assessment/Survey

SECTION 11: Discussion Section

SECTION 12: Conclusions and Recommendations

SECTION 13: Required Figures

SECTION 14: Appendices

SECTION 15: Consultant (or other) information



## Section 1: Emergency and High Priority Sites

1. Is an existing drinking water well impacted? YES\_\_\_ NO X
2. Are there any existing vapor impacts? YES\_\_\_ NO X
3. Is there an existing surface water impact as indicated by  
1) a product sheen on the surface water or 2) a product  
sheen or volatile organic compounds in the part per million  
range in ground water in a well located close to the surface  
water. YES\_\_\_ NO X
4. Has the release occurred in the last 30 days? YES\_\_\_ NO X
5. Has free product been detected at the site? YES\_\_\_ NO X
6. Is sand or gravel aquifer impacted which is tapped by water  
Wells within or potentially within 500 feet from the edge of  
the plume or does impacted soil overlie a karsted limestone  
or fractured bedrock? If YES, explain: YES\_\_\_ NO X

If you answered **YES** to any of questions 1 through 6 above describe below the actions taken to date to reduce or eliminate the risk posed by the release.

## Section 2: Site and Release Information

### 2.1 Describe the land use and pertinent geographic features within 1000 feet of the site.

Land around this site is used as a golf course.

**Table 1.**

Provide the following for all tanks that have been at the site:

Tank #	UST or AST	Capacity	Contents	Age	Status*	Condition
1	UST	350 GAL	Gasoline	UNK	Removed 4/24/90	Good condition with no visible ruptures
2	UST	265 GAL	UNK	UNK	Removed 4/24/90	Rust, corrosion, 9 puncture holes & collapsed along both sides upon removal

\*Indicate: *removed (date), abandoned in place (date), or currently used*

### 2.2 Describe the status of the other components of the tank system(s), (i.e., piping and dispensers) for those tanks listed above.

Dispensers were removed, piping was left in place.



**2.3 Identify and describe the source or suspected source(s) of the release.**

Holes in the tanks due to corrosion, overfills and spills.

**2.4 What was the volume of the release? (if known):** Unknown gallons**2.5 When did the release occur? (if known):** Unknown**Section 3: Excavated Soil Information****3.1 Was soil excavated for off-site treatment?** YES X NO   

If YES then complete the fact sheet #3.7 "Excavation Report Worksheet for Petroleum Release Sites" and include it as an appendix.

Date excavated: 4/24/90, 5/3/90, 5/8/90

Volume Removed: 396 cubic yards

3.2 Indicate soil treatment type: X land treatment  
\_\_\_\_\_ thermal treatment  
\_\_\_\_\_ composting/biopiling  
\_\_\_\_\_ other (\_\_\_\_\_)

Name and location of treatment facility: Anderson Site # 4  
Anderson Sand, Gravel and Demolition 4597 Old Hwy. 53, Saginaw, MN 55779

**Section 4: Extent and Magnitude of Soil Contamination**

4.1 Were soil borings conducted in or immediately adjacent to All likely source areas (e.g., UST basins, AST areas, piping, dispensers, remote fill pipes, known spill areas?) YES X NO   

4.2 To adequately define the vertical extent of contamination, soil borings should be completed at least five feet below the deepest measurable (field screening and visual observation) Contamination, whichever is deeper. Were all soil borings completed to the required depth? YES X NO   

4.3 To adequately evaluate site stratigraphy at least one boring Should be completed 20 feet below the water table, unless a confining layer is present. Was this done? YES    NO X



If you answered *NO* to any of the three previous questions, explain why the borings were not conducted in the required locations or to the required depths (see fact sheet #3.19 "Soil and Ground Water Investigations Performed During Remedial Investigations" regarding exceptions and MPCA approval for depth of drilling):

Compacted silty clays were encountered approximately 9 feet below the water table. This interval is thought to be a semi-permeable horizon; no PID readings above 8.0 ppm were registered below 10 feet beneath the ground surface.

4.4 Indicate the drilling method: X hollow-stem auger  
   \_\_\_ sonic drilling  
   X push probes  
   \_\_\_ other (\_\_\_\_\_)

*Note: contact MPCA staff hydro before use of flight augers*

**Table 2.**

Complete the following table indicating jar headspace results (in ppm) for soil samples from soil borings.

ASTM soil classification	Depth (ft)	Soil Boring								GP-1
		1	2	3	4	5	6	7	8	
CL/OH	0-2							15.4	3.5	0.0
CL/ML	2-4			2.4	48	4.9	5.6	1.8	2.7	0.0
CL	4-6				760	5.5	5.4	1.6	2.2	0.0
CL/ML	6-8		0.8		10.3				2.1	0.0
ML	8-10		4.1			3.7	5.0	2.2		0.0
SM	10-12				6.5	4.0	5.6	2.8	2.1	0.0
SM/GM	12-14				7.7			2.5		0.0
CL	14-16				6.3			2.2		0.0
GM	16-18									0.0

*Notes: (type of PID/FID)*

*PID type is a photovac microtip MP-1000 with a 10.2 eV lamp, calibrated with a 106 ppm factory recommended span gas isobutylene.*

**Table 3.**

Indicate the laboratory analytical results for soil samples in mg/kg.

Well/Boring Depth (ft)	Date Analyzed	Benzene	Toluene	Ethyl benzene	Xylene	GRO	DRO
SB-1/6-8'	12/21/94	<0.050	<0.050	<0.050	<0.050	<10.0	<10.0
SB-2/10-12'	12/22/94	<0.050	<0.050	<0.050	<0.050	<10.0	<10.0
SB-3/6-8'	12/22/94	<0.050	<0.050	<0.050	<0.050	<10.0	<10.0
SB-3/14-16'	12/22/94	0.83	<0.050	<0.050	<0.050	<10.0	<10.0
SB-4/4.5-6.5'	4/9/95	<0.050	<0.050	<0.050	<0.050	<10.0	<10.0
SB-4/14.5-16.5'	4/9/95	<0.050	<0.050	<0.050	<0.050	<10.0	<10.0
SB-5/7-9'	4/9/95	<0.050	<0.050	<0.050	<0.050	<10.0	<10.0
SB-6/7-9'	4/9/95	<0.050	<0.050	<0.050	<0.050	<10.0	<10.0
SB-7/8-10'	5/14/96	<0.025	<0.025	<0.025	0.032	<2.8	<4.2



Well/Boring Depth (ft)	Date Analyzed	Benzene	Toluene	Ethyl benzene	Xylene	GRO	DRO
SB-7/15-17'	5/14/96	<0.025	<0.025	<0.025	<0.025	<3.0	<4.2
SB-8/5-7'	5/14/96	<0.025	<0.025	<0.025	<0.025	<3.3	<4.6
GP-1 8'	12/16/97	<0.025	<0.025	<0.025	<0.025	<3.0	<4.5
GP-1 14'	12/16/97	<0.025	<0.025	<0.025	<0.025	<4.1	<6.3

Notes: (use less than symbols to show detection limits)

**Table 4.**

Indicate other notable contaminants (either petroleum or non-petroleum derived) detected in soil samples. Indicate contaminant and list in reported units mg/kg.

Well/Boring, Depth (ft)	Date Analyzed	Lead mg/kg
SB-7/8-10'	5/14/96	7.2
SB-7/15-17'	5/14/96	4.3
SB-8/5-7'	5/14/96	5.8

- 4.5 If any non-petroleum compounds were detected list them below and identify possible sources of these compounds.**

Lead was detected at concentrations ranging from 4.3 to 7.2 mg/kg, which are in the range of natural occurrence.

- 4.6 Describe the vertical and horizontal extent and magnitude of soil contamination.**

The majority of the soil impacted by this release was removed and treated at a land farm facility. Soil borings completed around the former excavation area did not reveal any measurable petroleum constituents except in SB-3 at 14-16 feet. At this interval, 0.83 ppm benzene was detected.

## **Section 5: Aquifer Characteristics/Ground Water Contamination Assessment**

- 5.1 Indicate the hydraulic conductivity and the method used to determine it. Attach all supporting information for the determination in the Methodologies appendix:**

10<sup>-3</sup> - 10<sup>-5</sup> cm/sec ☒ estimate from reference (Fetters - 1988)  
☐ slug test  
☐ permeability test  
☐ Hazen approximation from grain-size distribution



- 5.2 Indicate the thickness of the aquifer. If the investigation does not provide enough information to determine the aquifer thickness, assume the aquifer is greater than 20 feet thick:

\_\_\_\_\_ less than 10 feet  
\_\_\_\_\_ between 10 and 20 feet  
  X   20 feet or greater

- 5.3 Describe in detail the geology underlying the site including confining layers, bedrock formations and the lateral extent of these formations:

Soil at this site extends to a depth of at least 28 feet in places. Silt, clay, and silty clay are the predominant soil types to a depth of approximately 10 - 20 feet. Sand and silty sand was encountered beneath the clay and silt, with lenses of silt and clay present.

Bedrock exposures occur at the golf course, although refusal was not encountered in any of the borings. Bedrock is basalt from the North Shore Volcanic Group. This unit is locally a resource aquifer when fracture density is adequate to support ground water production. Otherwise, bedrock is an impermeable underlying horizon.

The impacted aquifer or the aquifer that is likely to be impacted at the site is considered a resource aquifer if one of the following situations exist:

- The aquifer is a current water supply source.
- The water bearing unit has a hydraulic conductivity greater than  $1 \times 10^{-2}$  cm/sec and a minimum thickness of 10 feet.
- The water bearing unit has a hydraulic conductivity between  $1 \times 10^{-4}$  cm/sec and  $1 \times 10^{-2}$  cm/sec and a minimum thickness of 20 feet.
- The water bearing unit has a hydraulic conductivity less than  $1 \times 10^{-4}$  cm/sec and no other viable source of water supply is available. (*Bedrock may be considered a resource aquifer if it is the only water supply available.*)

- 5.4 Based on the aquifer characteristics and water supply availability, is the aquifer at the site a resource aquifer? YES   X   NO \_\_\_\_\_

- 5.5 If other water supplies are available, explain.

The site is served by municipal water.

- 5.6 Are there any other reasons the impacted aquifer should not be considered a resource aquifer?

No



**Table 5.**

Indicate the water level measured in all of the soil borings.

	Soil Boring									
	1	2	3	4	5	6	7	8	9	10
Water level depth, (ft)	6.5	11.0	7.0		8.5	9.0	8.5	10.0	5.5	8

Notes:

5.7 Is contaminated soil in contact with ground water? YES X NO   

If YES or if ground water contamination appears likely then complete tables 6 and 7 below.

**Table 6.**

Indicate the laboratory analytical results for water samples collected from the borings, temporary wells or push probes.

Well/Boring Number	Date Analyzed	Benzene	Toluene	Ethyl benzene	Xylene	GRO	DRO
GP-1	12/18/97	<1.0	<1.0	<1.0	<2.0	<50	

Notes: Values in ppb

**Table 7.**

Indicate other notable contaminants (either petroleum or non-petroleum derived) detected in water samples collected from the borings, temporary wells or push probes. Indicate contaminant and report in units of ug/l (ppb).

Well/Boring Number	Date Analyzed						

Notes: Other analyses were not conducted.

5.8 If any non-petroleum compounds were detected list them below and indicate whether they exceed the HRLs. Also, identify possible sources of these compounds.

5.9 If contaminated soil is not in contact with ground water, \_\_\_\_\_ feet what is the distance separating the deepest contamination from the surface of the water table? Was this distance measured during site activities, referenced from geologic information, or estimated based on professional opinion during a site visit?

Not applicable.



- 5.10 Describe observations of any evidence of a fluctuating water table and a seasonal high water table (e.g., mottling). Also, from other sources of information describe the range of natural water table fluctuations in the area.**

Fluctuation of ground water appears to be approximately 4 feet based on water level measurements in the monitoring wells.

- 5.11 In your judgement, is there a sufficient distance separating YES\_\_ NO X  
The petroleum contaminated soil (or an impacted non-resource aquifer) from the underlying resource aquifer to prevent petroleum contamination of the resource aquifer? Please explain in detail. In your explanation, consider the data and information of this section as well as the nature of the petroleum release (i.e., volume, when it occurred, petroleum product).**

A resource aquifer has been impacted.

### Additional Ground Water Investigation

Complete Section 6 and Section 7 only if: 1) a resource aquifer has been impacted at or above Minnesota Department of Health Risk Limits (HRLs), 2) a resource aquifer has been impacted below the HRLs, but the levels are likely to reach the HRLs, or 3) there is an insufficient distance separating the petroleum contaminated soil (or an impacted non-resource aquifer) from the underlying resource aquifer. Regardless of whether you are submitting a Limited Site Investigation or a full RI, all sections following Section 7 must be completed.

## Section 6. Extent and Magnitude of Groundwater Contamination

**Table 8.**

Monitoring well construction.

Well Number	Unique Well Number	Date Installed	Relative Surface Elevation (ft.)	Riser Height Above Grade (ft.)	Bottom of Well (Elevation) ft.	Screen Interval (Elevation) ft.
MW-1	559216	3/27/95	99.31	1.56	80.79	90.79 - 80.79
MW-2	559217	3/28/95	95.96	2.14	81.13	88.13 - 81.13
MW-3	559218	3/28/95	96.34	2.27	84.21	91.21 - 84.21
MW-4	567885	4/29/96	100.88	2.78	86.96	91.96 - 86.96
MW-5	567886	4/29/96	94.25	3.18	81.22	88.22 - 81.22

Notes: (location and elevation of benchmark)

(Local) Garage door slab used as bench mark, assumed 100 feet in elevation.



**Table 9.**

Water table summary.

Well Number	Date	Depth of Water from Top of Casing (ft.)	Product Thickness	Depth of Water Below Grade (ft.)	Relative Groundwater Elevation (ft.)
MW-1	4/26/95	2.69		1.13	98.18
	8/11/95	3.99		2.43	96.88
	5/3/96	3.04		1.48	97.83
	8/20/96	3.83		2.27	97.04
	12/9/96	4.40		2.84	96.47
	12/15/97	7.66		6.10	93.21
MW-2	4/26/95	1.17		* 0.97	96.93
	8/11/95	2.01		* 0.13	96.09
	5/3/96	1.77		* 0.37	96.33
	8/20/96	2.25		0.11	95.85
	12/9/96	3.64		1.50	94.46
	12/15/97	4.42		2.28	93.68
MW-3	4/26/95	2.21		* 0.06	96.4
	8/11/95	3.64		1.37	94.97
	5/3/96	2.77		0.50	95.84
	8/20/96	4.15		1.88	94.46
	12/9/96	4.85		2.58	93.76
	12/15/97	5.91		3.64	92.70
MW-4	5/3/96	4.70		1.94	98.94
	8/20/96	6.28		3.52	97.36
	12/9/96	6.48		3.72	97.16
	12/15/97	8.09		5.33	95.55
MW-5	5/3/96	3.62		0.44	93.81
	8/20/96	4.44		1.26	92.99
	12/9/96	4.84		1.66	92.59
	12/15/97	5.62		2.44	91.81

Notes: (GW above/below screen, etc.), \* = Height above grade.

6.1 Were any deep monitoring wells completed at the site? YES\_\_ NO X  
 If YES, which are deep wells?

Before a deep well is installed contact the MPCA project hydrologist for guidance on its necessity and placement. A deep monitoring well may be necessary if 1) contamination exist more than 10 feet below the water table or 2) the impacted aquifer is a resource aquifer or is hydraulically connected to a resource aquifer presently utilized by a water supply well located within 500 feet of the site.

Provide estimates of the following additional aquifer parameters:

Horizontal Gradient (dh/dl): 0.03

Vertical Gradient (dv/dl):

Porosity: 30%

Flow direction: Southeast



Hydraulic Conductivity (K)

10<sup>-5</sup> m/s

Pore velocity:

31.5 meters/year**Table 10.**

All ground water monitoring data should be collected from a minimum of *two quarterly sampling events*.

Indicate the laboratory analytical results for water samples.

Well #	Date	Benzene	Toluene	Ethyl benzene	Xylene	MTBE	GRO	DRO
MW-1	4/26/95	0.6	0.8	<0.3	2.8	<5.0	<100.0	150
	8/11/95	<5.0	<5.0	<5.0	<5.0	<1.0	<100.0	120.0
	5/3/96	<0.6	<1.0	<1.0	<1.0	NA	<50.0	<100.0
	8/20/96	<0.6	<1.0	<1.0	<1.0	<1.0	<50.0	<100.0
	12/9/96	<0.6	<1.0	<1.0	<1.0	<1.0	<50.0	<100.0
	12/18/97	<1.0	<1.0	<1.0	<2.0	NA	<50.0	<100.0
MW-2	4/26/95	658.0	132.0	209.0	342.0	<50.0	1100.0	320
	8/11/95	370.0	<5.0	120	<5.0	<10.0	7200.0	710.0
	5/3/96	220.0	88	44	91	NA	5700.0	460.0
	8/20/96	270.0	36.0	190.0	371.0	<4.0	5200.0	700.0
	12/9/96	210.0	8.7	37.0	33.4	<4.0	3700.0	530.0
	12/18/97	160.0	5.3	20	4.2	NA	2400	440
MW-3	4/26/95	480.0	0.9	0.9	1.7	<5.0	<100.0	<100.0
	8/11/95	380.0	<5.0	120.0	<5.0	<1.0	7000.0	NA
	5/3/96	<0.6	<1.0	<1.0	<1.0	NA	<50.0	<100.0
	8/20/96	<0.6	<1.0	<1.0	<1.0	<1.0	<50.0	<100.0
	12/9/96	<0.6	<1.0	<1.0	<1.0	<1.0	<50.0	<100.0
	12/18/97	<1.0	<1.0	<1.0	<2.0	NA	<50.0	<120.0
MW-4	5/3/96	<1.0	<1.0	<1.0	<1.0	<1.0	<50.0	<100.0
	8/20/96	<0.6	<1.0	<1.0	<1.0	<1.0	<50.0	<100.0
	12/9/96	<0.6	<1.0	<1.0	<1.0	<1.0	<50.0	<100.0
	12/18/97	<1.0	<1.0	<1.0	<2.0	NA	<50.0	<110.0
MW-5	5/3/96	<1.0	<1.0	<1.0	<1.0	<1.0	<50.0	<100.0
	8/20/96	<0.6	<1.0	<1.0	<1.0	<1.0	<50.0	<100.0
	12/9/96	<0.6	<1.0	<1.0	<1.0	<1.0	<50.0	<100.0
	12/18/97	1.1	<1.0	<1.0	<2.0	NA	<50.0	110.0

Notes: (e.g., free product, dry well, units etc.) Note: Units in ug/L



**Table 11.**

Indicate other notable contaminants (either petroleum or non-petroleum derived) detected in water samples.

Well #	Date Analyzed	1, 2-Dichloroethane	Tetrahydrofuran
MW-2	4/26/95	15.8	
	8/11/95	12.0	200.0
MW-3	8/11/95	4.4	

*Notes: units in ppb.*

- 6.2** If any non-petroleum compounds were detected list them below and indicate whether they exceed the HRLs. Also, identify possible sources of these compounds.

1,2-Dichloroethane, has been detected in samples from MW-2 and MW-3 in concentrations which exceed the HRL (4 ppb). This compound is commonly used as an additive to gasoline.

- 6.3** Is there a clean or nearly clean (below HRLs) downgradient monitoring well located along the longitudinal axis of the contaminated plume? (approximately 20 degrees plus or minus the axis) YES\_\_\_ NO X

A clean water sample was collected from GP-1, which is down gradient of the impacted ground water.

- 6.4** Is there a worst case well completed through the source area of the release? YES X NO\_\_\_

Monitoring well MW-1

If you have answered *NO* to any of the above three questions, please explain why a well was not completed in the required location.

Down gradient of MW-2 is golf course fairway and greens. These areas are not accessible for monitoring well placement, however, a clean water sample was obtained from a push probe (GP-1) located in the down gradient direction.

- 6.5** Provide an estimate of the longitudinal length of the dissolved contaminant plume: 50 feet



**6.6 Describe the extent and magnitude of the ground water contamination:**

Ground water with detectable petroleum hydrocarbons is limited to the area south of the former UST basin. MW-2 is the only well within the plume, with clean monitoring wells and/or borings defining a 50 - 60 foot radius around MW-2.

Laboratory results show that benzene and 1,2-dichloroethane are the only petroleum constituents above HRLs. Levels of benzene in MW-2 have been steadily declining.

**Section 7: Evaluation of natural attenuation****Table 12.**

Complete the bioactivity data in the table below. Data should be from two quarterly rounds of sampling. Refer to the fact sheet #3.21 "Assessment of Natural Biodegradation at Petroleum Tank Release Sites" for acceptable methodologies and indicate the chosen method in the Methodologies appendix.

Monitoring Well	Temp. °C	pH	Dissolved oxygen (mg/l)	Nitrate (mg/l)	(Fe II) (mg/l)	(H <sub>2</sub> S, HS) (mg/l)
MW-1	10.4	7.75	3.0	0.28	1.45	0.14
MW-2	11.1	7.57	5.2	1.20	>6.0	1.67
MW-3	8.8	7.21	13.5	0.57	>6.0	1.08
MW-4	8.4	7.94	2.8	0.37	1.7	0.17
MW-5	9.5	7.68	4.9	0.69	>6.0	0.97

**7.1 Discuss the results of the bioactivity evaluation. Specifically, compare the concentrations of the inorganic parameters inside and outside the plume.**

This data does not show characteristics of bioactivity, but the amount of dissolved oxygen is sufficient for bioactivity to occur.

**7.2 In your judgment, is natural biodegradation occurring at this site? YES X NO     
Please explain:**

Concentrations of petroleum hydrocarbons are shown to have steadily decreased since ground water monitoring was initiated approximately 2 years ago.



## Section 8: Well Receptor Information/Assessment

Include in the appendices of this report: 1) a list of addresses within 500 feet from the edge of the plume and confirmation of status of water supply from the city utility billing department; 2) well logs; and 3) map showing ½ mile radius, 500 foot radius, water supply wells, other potential petroleum sources, and addresses for properties within 500 feet.

No water supply wells were located inside the search area.

**Table 13.**

Complete the following table for all water supply wells located within 500 feet of the edge of the plume and any municipal or industrial wells found within ½ mile.

Unique Well #	Ground Elevation	Total Depth (ft)	Base of Casing (ft)	Static Elevation	Aquifer	Use	Owner	Distance & Direction from site

Notes:

8.1 Is municipal water available in the area? YES X NO   

8.2 Were all property owners within 500 feet of the nearest edge YES X NO     
Of the contaminant plume successfully contacted to determine if water wells are present? If NO, please explain.

There are no other property owners within 500' of the site.

8.3 Discuss the results of the ground water receptor survey and any analytical results from sampling conducted at nearby water wells. Comment on the risks to water supply wells identified within 500 feet from the edge of the plume as well as the risk posed by or to any municipal or industrial wells found within ½ mile. Specifically indicate whether water supply wells identified utilize the impacted aquifer. (Note: an impacted aquifer separated from another aquifer by a clay lens is not considered a separate aquifer.)

No water supply wells were identified within ½ mile of the site.

8.4 Are there any plans for groundwater development in the impacted YES    NO X  
aquifer within one half mile of the site, or one mile down gradient of the site if the aquifer is fractured? Please give the name, title and phone number of the person that was contacted for this information.

Jeff Anderson Phone 525-3018



## Section 9: Surface Water Risk Assessment

- 9.1 Are there any surface waters or wetlands located within 1/4 mile of the site? YES X NO

If YES, indicate its name: Lester River

- 9.2 If surface water is present downgradient of the site, is there a clean down gradient soil boring or monitoring well located between the site and the surface water? YES X NO

If NO, we assume that contamination discharges to surface water. Therefore, complete the following information:

Name of receiving water:	_____
Plume width, (W):	_____ feet
Plume thickness, (H):	_____ feet
Hydraulic conductivity, (K):	_____ gal/day/ft <sup>2</sup>
Horizontal gradient, (dh/dl):	_____ (unitless)
Discharge, (Q) = $H \cdot W \cdot K \cdot (dh/dl) / 1440$	_____ gal/min

If YES, identify them and indicate the distance to these features and discuss the contamination risk potential.

The Lester River is approximately 500 feet away from the release. MW-3 is located between the former tank basin and the river. Soil and water samples collected from MW-3 had no detectable petroleum constituents.

## Section 10: Vapor Risk Assessment/Survey

- 10.1 Is there a history of vapor impacts in the vicinity of the site? YES    NO X  
If YES, describe:

- 10.2 Is there any indication that free product or highly contaminated groundwater may be traveling offsite within the utility corridors? If YES, have they been investigated with borings or push probes? YES    NO X



- 10.3** Discuss the potential for vapor migration/accumulation near the site. In your discussion consider: soil types, product type, presence and distribution of free product or high concentrations of dissolved product. Also, compare the depth of contamination with the location of underground utility lines, location and depth of storm and sanitary sewers and location of nearby basements.

Due to the limited amount and concentration of petroleum constituents remaining at the site, it is unlikely that any significant migration or accumulation of vapors will occur. The soils are clay rich, and the site is remote enough that utility corridors are not a concern.

If the vapor risk assessment indicated a risk of vapor impacts to buildings or utilities, complete the following table with vapor monitoring data collected. Location numbers should be mapped on an accompanying figure of the surveyed area.

**Table 14.**

Location #	Date	PID reading (ppm)	Percent of the LEL

- 10.4** Describe and interpret the results of the vapor survey.

## **Section 11: Discussion**

- 11.1** Discuss the risks associated with the remaining soil contamination?

Most of the impacted soils were excavated and land farmed. The remaining soil containing petroleum hydrocarbons likely will remain a source of ground water impacts.

- 11.2** Discuss the risks associated with the impacted ground water?

Petroleum constituents in the ground water contamination appear to be confined to the area directly down gradient of the source. Peripheral wells do not have detectable amounts of petroleum constituents, but benzene concentrations in MW-2 remain above HRLs for this compound. Benzene concentrations have declined from 658 ppb to 160 ppb in MW-2. No water supply wells are present in this area and the plume is not discharging to surface water.

- 11.3** Discuss other concerns not mentioned above:



## Section 12: Conclusions and Recommendations

Recommendation for site:      X   site closure  
                                            additional vapor monitoring  
                                            additional ground water monitoring  
                                            active cleanup

**The recommendation above should be based on fact sheet #3.1 "Leaking Underground Storage Tank Investigation and Cleanup Policy."**

**Describe below how you applied the policy to support your recommendation.**

The hydrocarbon plume is less than 200 feet long, hydrocarbon concentration has been declining, additional migration of hydrocarbons has not been observed, and drinking water resources or surface water are not at risk of being impacted.

**If additional monitoring is recommended, indicate the proposed monitoring schedule and frequency:**

None.

**If active cleanup is proposed then MPCA staff will review this remedial investigation report at a higher than normal priority to determine if active cleanup is required. We will respond with either a request for proposal for additional monitoring or a corrective action design report. Please indicate below what cleanup technology you are considering at this time.**

None.



## Section 13: Required Figures

Indicate attached figures:

<u>X</u>	Figure 1, 1a:	Site location map ( <i>approximate scale is not acceptable</i> ) and a large scale site map show all potential receptors within 300 feet of the site. The large scale site map should show those properties with basements and wells.
<u>X</u>	Figure 2, 2a, 2b, etc.:	One or more site map showing: structures; all past and present petroleum storage tanks, piping, and dispensers; extent of soil excavation; boring and well locations (including any drinking water wells on site); horizontal extent of soil contamination; horizontal extent of ground water contamination; and location of end points for all geologic cross sections.
<u>X</u>	Figure 3, 3a:	Ground water gradient contour maps (for sites with monitoring wells).
<u>X</u>	Figure 4	Well receptor survey map showing ½ mile radius, 500 foot radius, water supply wells, other potential sources of contamination.
—	Figure 5:	Vapor survey map showing utilities and buildings with basements and monitoring locations (if a survey was required).
<u>X</u>	Figure 6:	Geologic cross sections.



## Section 14: Appendices

Indicate attached appendices.

<u>X</u>	<i>Appendix A</i>	Excavation Report Worksheet for Petroleum Release Sites.
<u>X</u>	<i>Appendix B</i>	Laboratory analytical reports for soil and ground water.
<u>X</u>	<i>Appendix C</i>	Methodologies and procedures, including field screening of soil, other field analyses, soil boring, soil sampling, well installation, and water sampling.
<u>X</u>	<i>Appendix D</i>	Geologic logs for each well or boring using attached template.
<u>X</u>	<i>Appendix E</i>	Well construction diagrams and copies of the Minnesota Department of Health Well Record using attached template.
—	<i>Appendix F</i>	Copies of water supply well logs with legible unique numbers. (No wells were located in the search area.)
—	<i>Appendix G</i>	A list of addresses within 500 feet from the edge of the plume and confirmation of status of water supply from the city utility billing department. (No residences in the area.)



**Section 15: Consultant (or other) information**

*By signing this document, I/we acknowledge that we are submitting this document on behalf of and as agents of the responsible person or volunteer for this leaksite. I/we acknowledge that if information in this document is inaccurate or incomplete, it will delay the completion of remediation and may harm the environment and may result in reduction of reimbursement awards. In addition, I/we acknowledge on behalf of the responsible person or volunteer for this leaksite that if this document is determined to contain a false material statement, representation, or certification, or if it omits material information, the responsible person or volunteer may be found to be in violation of Minn. Stat. § 115.075 (1994) or Minn. Rules 7000.0300 (Duty of Candor), and that the responsible person or volunteer may be liable for civil penalties.*

Name and Title:

Signature:

Date Signed:

Guy M. Partch

Hydrogeologist

Jon M. Aspie

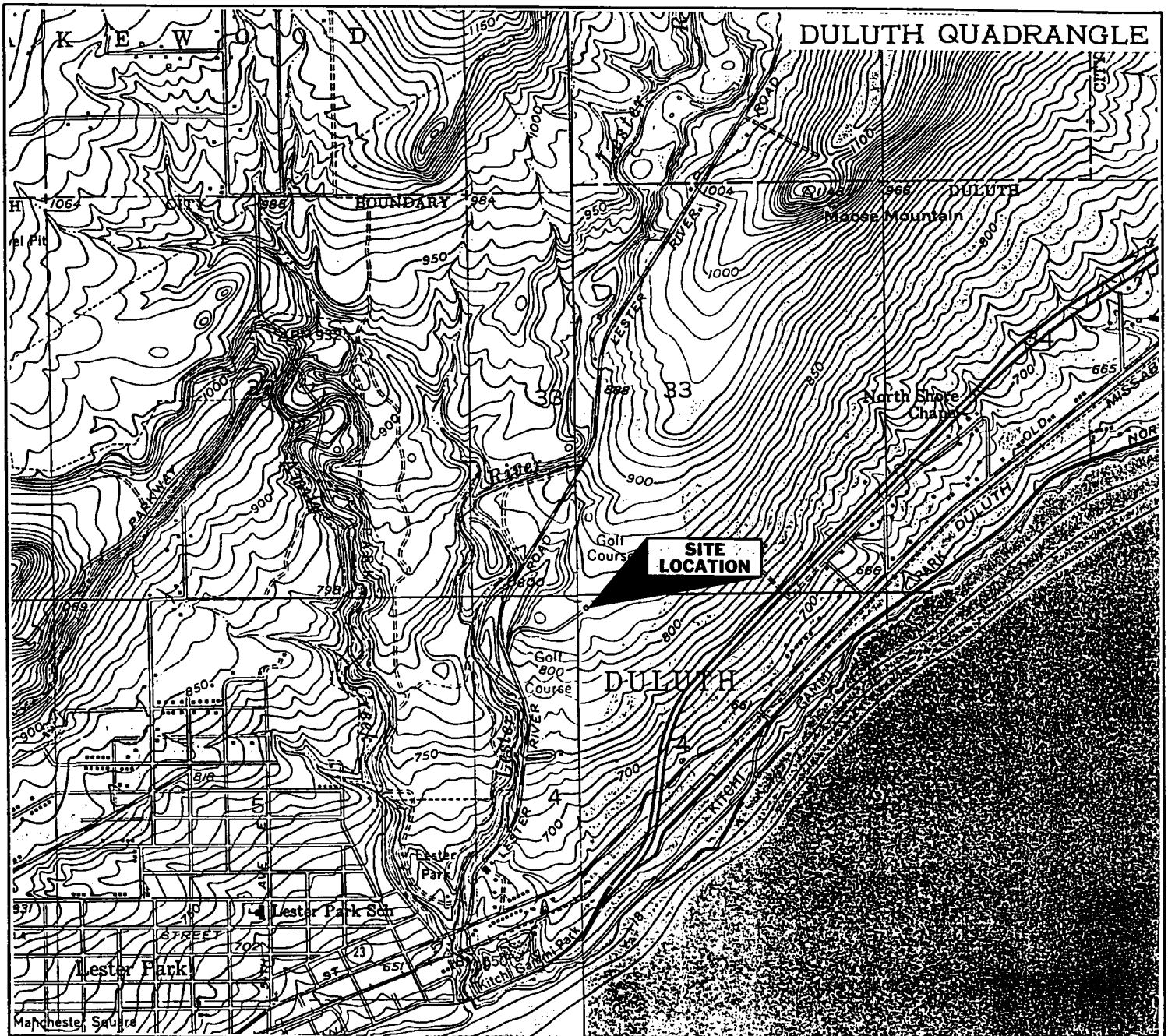
Project Manager/Hydrogeologist

**Company & mailing address:**

**Remediation Services, Inc.  
102 South 29th Avenue West, Suite 100  
Duluth, Minnesota 55806  
(218) 722-6013  
(218) 722-6319 - fax**

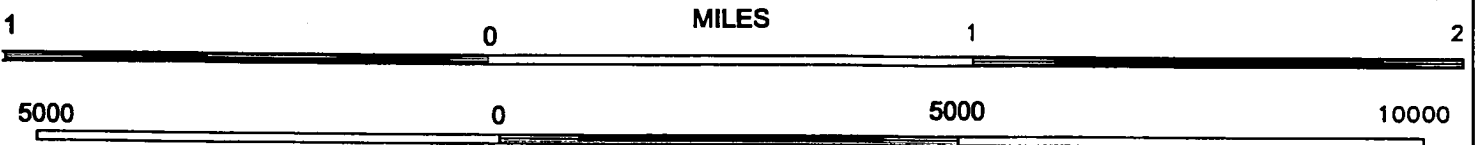
Upon request, this document can be made available in other formats, including Braille, large print and audio tape. TTY users call 612/282-5332 or Greater Minnesota 1-800-657-3864.





**RSI**  
ENVIRONMENTAL CONSULTANTS

**FIGURE 1 – SITE LOCATION MAP**  
**LESTER PARK GOLF COURSE**



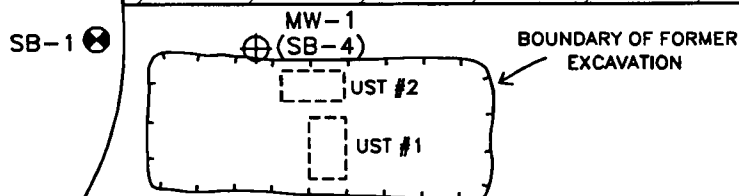
CONTOUR INTERVAL 10 FEET  
NATIONAL GEODETIC VERTICAL DATUM OF 1929





MW-4  
(SB-7)

SEPTIC



MW-3  
(SB-6)

SB-2

SB-3

MW-2  
(SB-5)

AST

MW-5  
(SB-8)

GREEN NURSERY AREA

GP-1

RSI

ENVIRONMENTAL CONSULTANTS

LEGEND:

- SOIL BORING
- MONITORING WELL
- FORMER UST

DRAWN BY:

RJM

DATE:

12/31/97

REVISED:

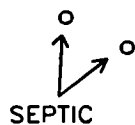
FIGURE 2  
SITE MAP  
LESTER PARK GOLF COURSE  
MAINTENANCE SHOP  
DULUTH, MN





MW-4  
(SB-7)

0' 30'  
SCALE



AST



MAINTENANCE SHOP

SB-1

MW-1  
(SB-4)

BOUNDARY OF FORMER  
EXCAVATION

UST #2

UST #1

MW-3  
(SB-6)

SB-2

SB-3

MW-2  
(SB-5)

AST

210 ppb  
BENZENE

MW-5  
(SB-8)

GREEN NURSERY AREA

GP-1

RSI  
ENVIRONMENTAL CONSULTANTS

LEGEND:



SOIL BORING



MONITORING WELL



FORMER UST

DRAWN BY:

RJM

DATE:

12/31/97

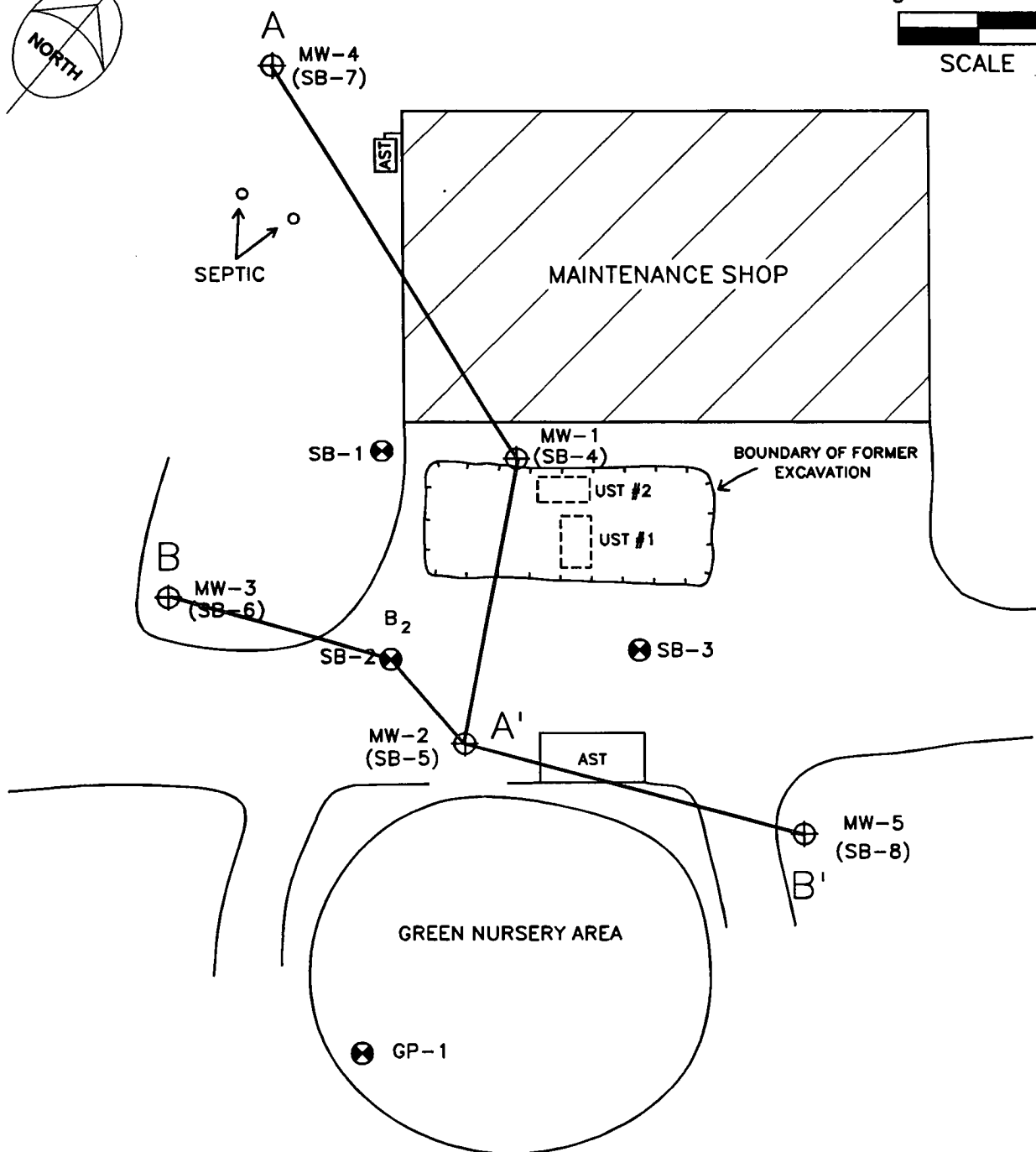
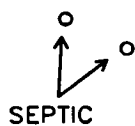
REVISED:

FIGURE 2 B  
ESTIMATED GROUND WATER  
CONTAMINATION  
LESTER PARK GOLF COURSE  
MAINTENANCE SHOP  
DULUTH, MN








0' 30'  
SCALE



**RSI**  
ENVIRONMENTAL CONSULTANTS

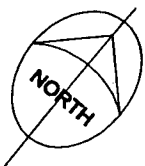
**LEGEND:**

-  SOIL BORING
-  MONITORING WELL
-  FORMER UST

DRAWN BY:  
RJM  
DATE:  
12/31/97  
REVISED:

**FIGURE 2C**  
GEOLOGIC CROSS SECTION  
END POINTS  
LESTER PARK GOLF COURSE  
MAINTENANCE SHOP  
DULUTH, MN



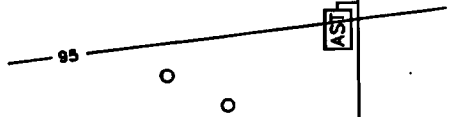


0' 30'



SCALE

95.55 ⊕ MW-4  
(SB-7)



MAINTENANCE SHOP

94

SB-1 ⊗

93.21 ⊕ MW-1  
(SB-4)

BOUNDARY OF FORMER  
EXCAVATION

UST #2

UST #1

MW-3  
(SB-6) ⊕ 92.7

SB-2 ⊗

SB-3 ⊗

MW-2  
(SB-5) ⊕

93.68

AST

91.81 ⊕ MW-5  
(SB-8)

92

GREEN NURSERY AREA

*clear*

⊗ GP-1

RSI

ENVIRONMENTAL CONSULTANTS

LEGEND:



SOIL BORING



MONITORING WELL



GROUND WATER  
CONTOUR LINE

(87.89)

WATER ELEV.  
IN WELL

DRAWN BY:

RJM

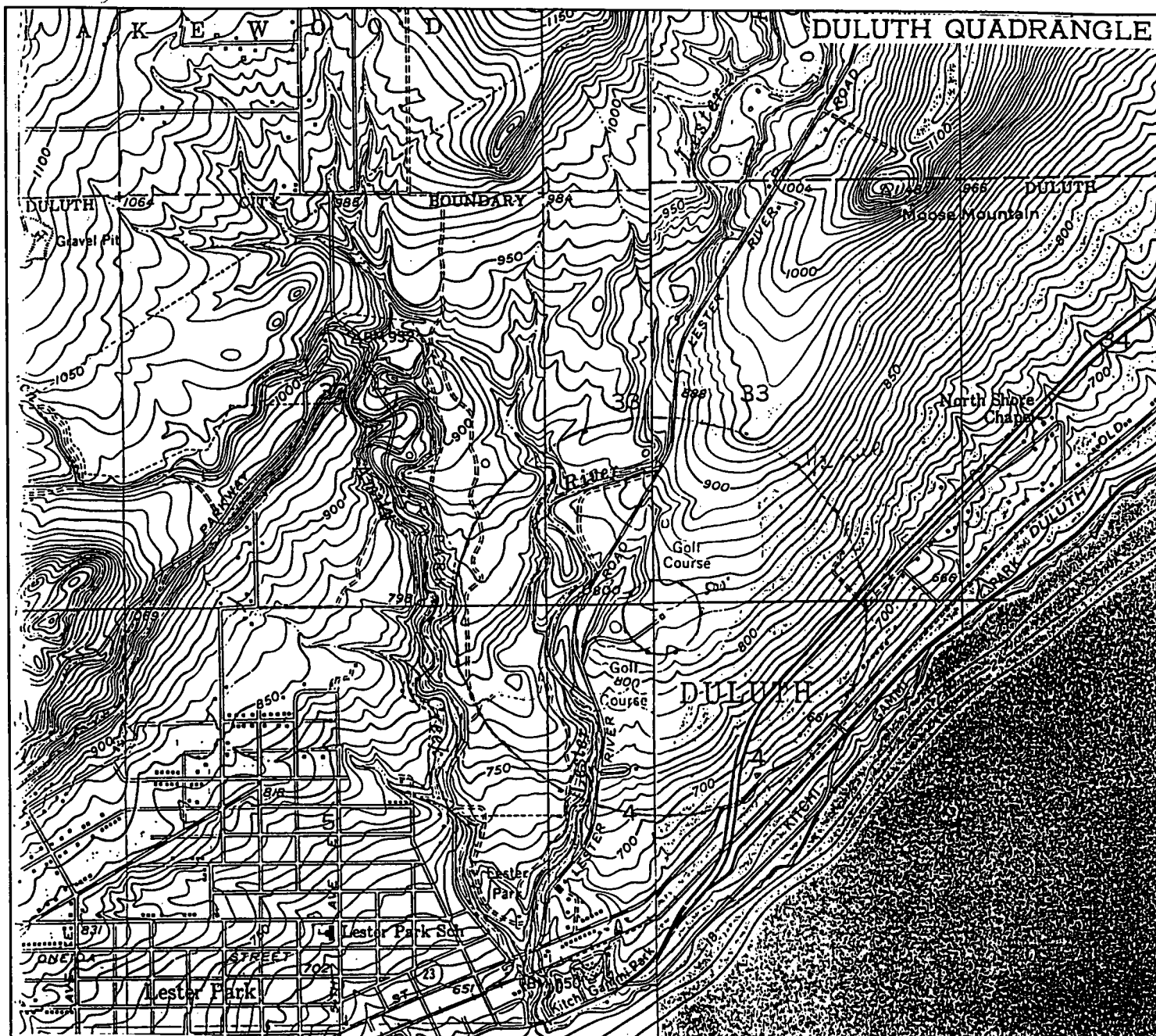
DATE:

12/31/97

REVISED:

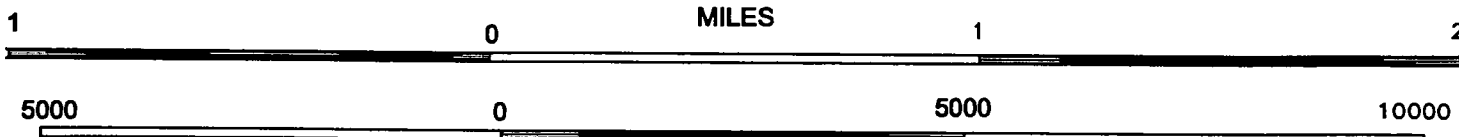
FIGURE 3  
GROUND WATER CONTOUR MAP  
12/15/97  
LESTER PARK GOLF COURSE  
MAINTENANCE SHOP  
DULUTH, MN





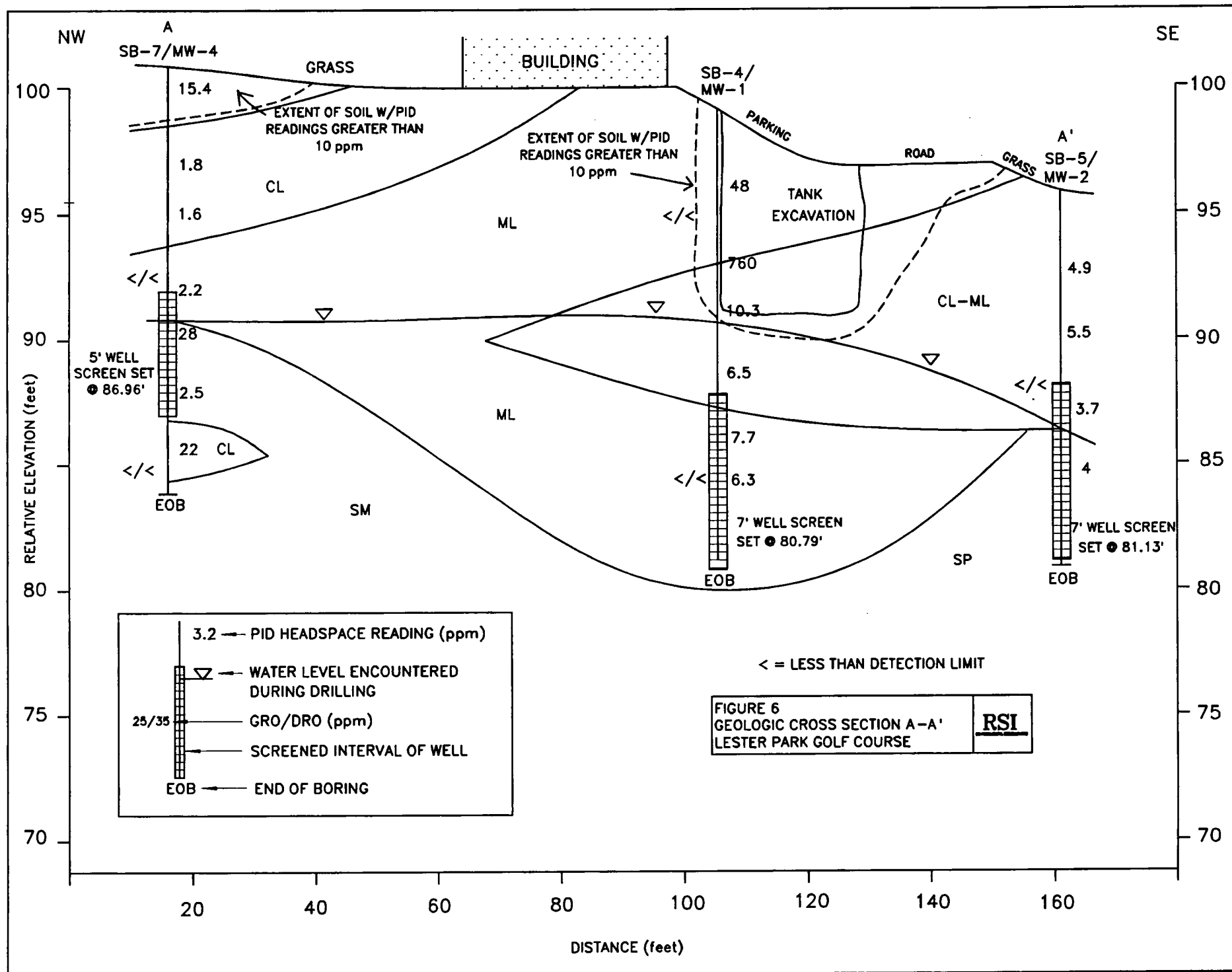
**RSI**  
ENVIRONMENTAL CONSULTANTS

FIGURE 4 : WELL RECEPTOR SURVEY  
LESTER PARK GOLF COURSE

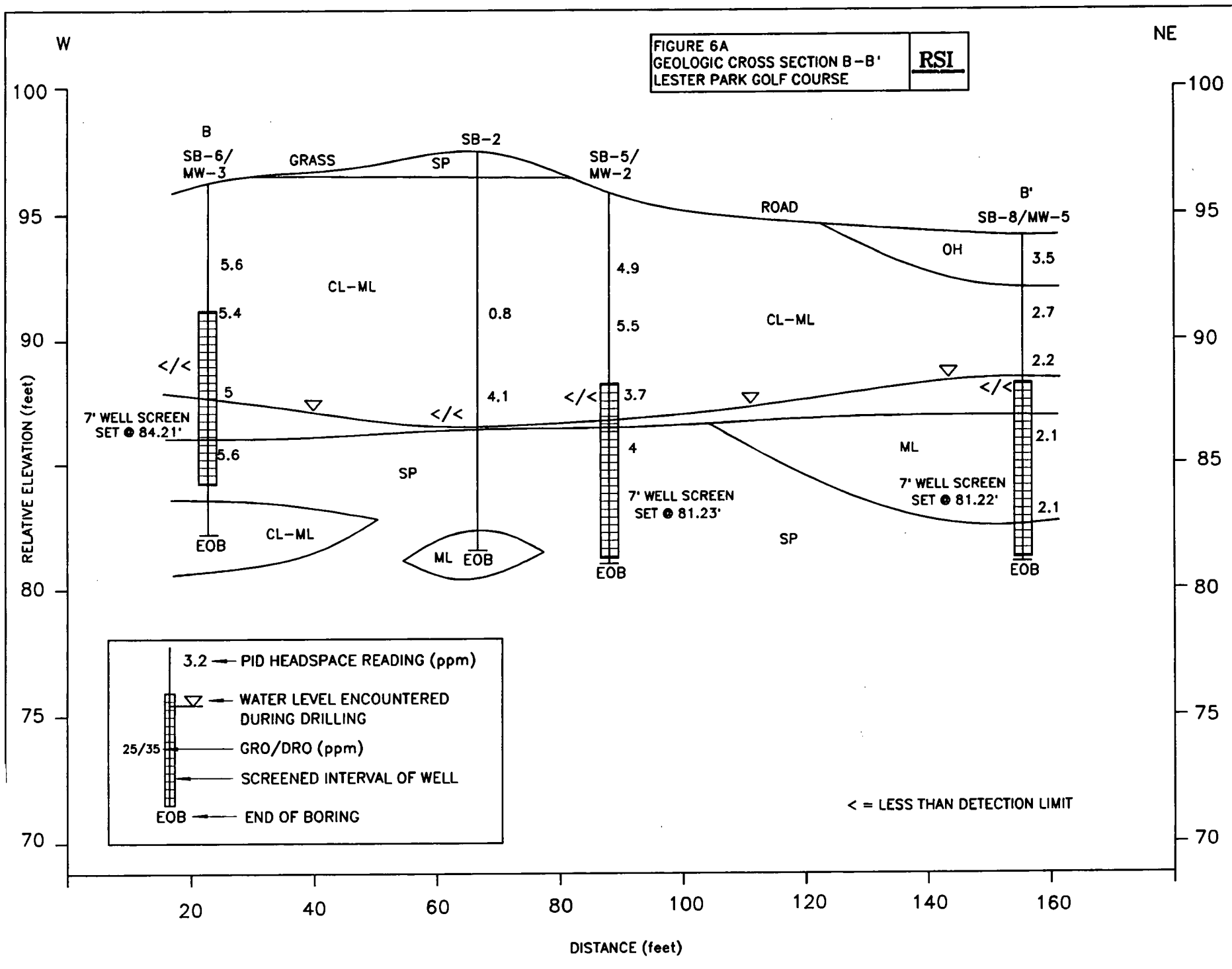


CONTOUR INTERVAL 10 FEET  
NATIONAL GEODETIC VERTICAL DATUM OF 1929



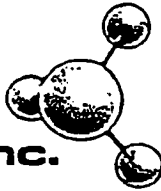








SINCE 1972



**TWIN PORTS TESTING inc.**

1301 NORTH THIRD STREET ■ SUPERIOR, WISCONSIN 54880  
FAX # 715-392-7163 ■ (715) 392-7114

July 26, 1990  
TPT# 91-90E

City of Duluth  
Administrative Services  
313 City Hall  
Duluth, Minnesota 55802

Attn: Mr. Robert Troolin

Re: Excavation Report, City of Duluth  
Lester Park Golf Course Maintenance Shop  
MPCA ID# 5358

Dear Mr. Troolin,

Enclosed you will find a report for the environmental monitoring conducted during the excavation of underground petroleum storage tanks (UST's) and petroleum contaminated soils from April 24 through May 7, 1990 at the Lester Park Golf Course Maintenance Shop. The report consists of a Minnesota Pollution Control Agency (MPCA) "Underground Storage Tank Removal Information Form" and an Excavation Report.

The work performed by Twin Ports Testing, Inc. (TPT) consisted of onsite observations, soil vapor screening, sampling of soil for laboratory analyses and compilation of data for this report. UST removal, soil excavation and soil treatment have been conducted by Anderson Sand and Gravel and Demolition of Saginaw, Minnesota. Laboratory analyses were conducted by Serco Laboratories of St. Paul, Minnesota.

Soil vapor screening and laboratory analyses of soil samples collected from the final excavation indicated petroleum contamination remains in soils at the base and walls of the excavation. The base of the excavation coincides with the depth of groundwater indicating that groundwater has been impacted. The lateral limits of contamination were not reached by excavation due to constraints by utilities, the road and the building. The extent of contamination at and below the watertable is unknown.

It is important to note that recent guidelines published by the MPCA (April and May 1990), state that a Remedial Investigation (RI) is necessary to assess closure of tank release sites if soil contamination exists above the soil vapor action levels of 10 parts per million (ppm) and/or if laboratory results from soil samples taken from the base or sidewalls of the excavation are greater than 50 ppm total petroleum hydrocarbons. An RI is required if the release has affected groundwater.

PCA04-1430

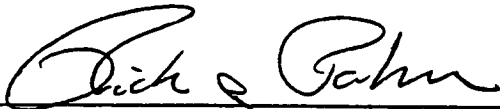


We have recommended that soil borings be conducted to determine the extent and magnitude of soil and groundwater contamination at the site. The results of the soil boring survey would be used to determine if further RI work or cleanup action is necessary. Upon completion of the investigation, an RI report should be completed which can be submitted to the MPCA for review along with this Excavation Report.

Upon your request, TPT will produce a proposal for an RI including a work plan and cost estimates for onsite investigative work, comprehensive reporting and a Corrective Action Design (CAD).

We would like to thank you for allowing us to be of service to you on this important project. If you have any questions concerning this report or a proposal for further investigative work, please feel free to call us anytime. We look forward to hearing from and working with you in the near future.

Sincerely,

A handwritten signature in cursive script, appearing to read "Rick J. Palm", is written over a horizontal line.

Rick J. Palm, Geologist  
Twin Ports Testing, Inc.

RJP:sk



## TABLE OF CONTENTS

<u>Contents</u>	<u>Page</u>
Underground Storage Tank Removal Information Form .....	1
Location .....	2
Background Information .....	2
Site Geology .....	2
Surface Expressions .....	3
Surface Material .....	3
Excavation Process .....	3
Materials Encountered .....	5
Groundwater Observations .....	6
Soil Testing Procedures .....	6
Areas of Contamination .....	6
Soil Samples .....	7
Condition & Description of Tanks .....	7
Handling of Contaminated Soils .....	8
Discussion .....	8
Risk Assessment .....	9
Conclusions .....	9
Recommendations .....	10

### Figures

Figure 1	Site Location Map
Figure 2	Soil Borings Data and Well Sites
Figure 3	Maintenance Shop Site Map
Figure 4	Excavation of Tanks #1 & #2
Figure 5	Vapor Headspace Readings Initial Excavation
Figure 6	Excavation Showing Exploration Trenches
Figure 7	Final Excavation and Vapor Readings
Figure 8	Soils Analysis Results Tested Hydrocarbon

### Tables

Table 1.	Summary of Headspace Analysis
Table 2.	Summary of Soil Laboratory Analysis

### Appendix A:

Laboratory Analysis Report No. 1131
Chain of Custody Record
Flash Point Report, Fluid Sample #1



SINCE 1972



**TWIN PORTS TESTING inc.**

1301 NORTH THIRD STREET ■ SUPERIOR, WISCONSIN 54880  
FAX # 715-392-7163 ■ (715) 392-7114

**Underground Storage Tank Removal Information Form**

This form is provided to tank owners and operators, fire department representatives and others to assist the observation of underground storage tank removals. It is the legal duty of the tank owner and operator to report any evidence of petroleum contamination to the Minnesota Pollution Control Agency.

**Observer:** Jack Granquist **Date:** April 24, 1990 **Time:**

**Signature:** \_\_\_\_\_

**Organization:** Twin Ports Testing, Inc. **TPT Job #:** 91-90E  
**Position:** Environmental Scientist  
**Address:** 1301 N. Third Street, Superior, Wisconsin 54880  
**Phone:** (715) 392-7114 **Fax:** (715) 392-7163

**TANK INFORMATION**

**Tank Owner Name:** City of Duluth **MPCA ID#:** 5358  
**Contact Person:** Bob Troolin **Title:** Risk Management Specialist  
**Tank Location:** Lester Park Golf Course Maintenance Shop  
**Address:** 1860 Lester River Road Duluth, Minnesota 55804  
**County:** St Louis **Phone:** (218) 723-3291  
**Excav. Contractor:** Anderson Sand, Gravel, and Demolition 4597 Old Hwy 53 Saginaw, MN 55779

<u>TANK</u>	<u>CONDITION &amp; SIZE</u>	<u>CONTENTS (PRODUCT)</u>	<u>VISIBLE CORROSION</u>	<u>VISIBLE LEAKAGE</u>	<u>SOIL CONTAMINATION</u>
#1	350 gallon	Gasoline	Yes	Yes	Yes
#2	265 gallon	Unknown	Yes	No	Yes

**SOIL CONDITIONS WITHIN EXCAVATION**

- |     |  |     |
|-----|--|-----|
| 1.  | Detectable petroleum contamination was found?                  | Yes |
| 2.  | Petroleum Odors (moderate)                                     | Yes |
| 3.  | Visible petroleum product in soil?                             | Yes |
| 4.  | Sheen on water mixed with soil?                                | Yes |
| 5.  | Sheen on ground water in excavation?                           | Yes |
| 6.  | Petroleum product on ground water in excavation?               | Yes |
| 7.  | Vapor detection instrument used (HNU PI-101)                   | Yes |
| 8.  | Soil samples taken from under tank(s)                          | Yes |
| 9.  | Soil type: Moist Silty-Sandy Clay with Gravel (Glacial Till)   |     |
| 10. | Pictures taken: no   |     |
| 11. | Tank disposed by: Cliff Anderson Where: Anderson Shop Location |     |

The Minnesota Pollution Control Agency (MPCA) must be notified immediately of any evidence of petroleum contamination.

24 Hour Emergency or Spill Number: 612-296-8100  
Business Hours: 612-296-7235 or 612-296-7709



## EXCAVATION REPORT

### Location:

Lester Park Golf Course Maintenance Shop, 1860 Lester River Road, Duluth, Minnesota 55804. The location is shown in Figure 1.

### Background Information:

The maintenance shop and surrounding area serves as the center of activity for equipment maintenance, grounds keeping, and irrigation for the Lester Park Golf Course. The UST's were used to refuel light-duty vehicles and gasoline powered golf carts.

The UST had been in service up until the Spring of 1989. During the Winter of 1988-89, it had been left half full of gasoline. When pumped early in the season the tank contained a large amount of water. It was then pumped dry and left in the ground until it was removed during the Spring of 1990 (described below).

The irrigation source for the course sprinkler system comes from a large reservoir pond located north and west of the shop area (see Figure #3). This reservoir is filled from five wells surrounding the pond. These wells are reported to be an average of 540 feet deep, drilled into bedrock. Prior to the drilling of these source wells the irrigation system was fed by a 6 inch City of Duluth water main that enters the pond at the southwest side. Although not being utilized because of the new well system, this water source is still available. The irrigation system distributes water from the reservoir pond, pumping from a pump station (northwest corner of the pond near well #3) through underground pipes that pass close to the UST removal site. All surface ponds are lined with an 18 inch base of clay that prevents water loss into native soils and also reduces the interaction of ground water with the pond water.

The area just south of the UST's and maintenance shop road is utilized for growing nursery grasses for green and fairway repair. Course maintenance foreman, Glen Oliver, stated that there has never been a problem with the productivity of the sites and that if there was petroleum product in contact with the seed grasses, it would be readily apparent.

### Site Geology:

The Lester River Golf Course is located over bedrock identified as the North Shore Volcanic Group (geologic age 1,100 million years) that consists of basalt and related rocks of igneous origin.

The bedrock is overlain by glacial sediments deposited in the Pleistocene Epoch, late Wisconsin Age. These sediments are associated with the Nickerson Moraine Association and consist primarily of clayey till (locally calcareous) resulting from the incorporation of proglacial lake sediments. More specifically at



Lester Park, the sediments are elements of ground moraine including clayey till that is an unsorted and unstratified mixture of all sizes of rock material deposited directly by glacial ice with little or no reworking by water.

The overall golf course strata has been investigated using soil boring analysis. This work was conducted in conjunction with golf course improvements and expansion by Richard M. Phelps, Golf Course Architect, P.O. Box 3295 Evergreen, Colorado 80439. A portion of these data are shown in Figure #2, which depicts soil boring sites and strata identified at each location between the ground surface and bedrock. Information was provided to TPT by the contractor, Park Construction Co.

Date:

Excavation and Tank Removal took place on Tuesday April 24, 1990. Further excavation of contaminated soils continued on Thursday May 3rd, Friday May 4th, and Monday May 7th.

Weather:

On April 24 it was sunny and warm with rain showers over the noon hour and heavy rains that evening. From the time of tank removal and 9 days later when excavation of contaminated soils was resumed there were accumulations of rain. The weather conditions after the excavation of contaminants resumed (May 3rd) were predominately cool with a lake wind and not much precipitation.

Time of Excavation:

Excavation started at 9:30 AM. The tanks were out of the ground at 10:52 AM. Further excavation of contaminated soils lasted the rest of the day. Excavation on the following days resumed at 8:30 - 9:00 AM and continued until 4:30 - 5:00 PM.

Surface Expressions:

The USTs were located beneath a driveway and parking area for commercial vehicles that gently sloped to the south into a 12" ditch separating the access road from the golf course nursery area.

Surface Material:

The surface of the excavation was a packed gravel driveway with a cold mix asphalt ramp for garage door entrance.

Excavation Process:

The excavation proceeded on 4/24/90 using a Case Backhoe 580E. Material around the UST was excavated, exposing the west side, the top of the UST, and the three underground pipes running to the pump. At this time a second UST, designated as Tank #2, was discovered. The UST had long since been abandoned, and its presence was unknown to the occupants. Both tanks contained fluids assumed to be primarily water. Midway Sewer Service arrived to pump both tanks. 400 gallons of fluid were removed from the site and disposed of at UPC (United Purification Co., Superior, WI). All underground pipes were cut and both tanks were lifted from the excavation by the backhoe operator. A hole was discovered during excavation of Tank #1. Considerable amount of liquid leaked out of the center



of the north end of the tank prior to pumping. A visual estimate of the amount of fluid lost in the spill was between 5 and 10 gallons. A sample of the fluid (which had a strong odor of product) was taken for laboratory analysis. The fluid flowed into the excavation and pooled on the west side of Tank #1. A strong petroleum odor was apparent throughout the rest of the day.

Heavy rain showers occurred just before 12:00. The excavation stockpile was pushed back into the hole to prevent collapse of the excavation walls by the storm runoff. After the weather cleared, the material was re-excavated and as much of the contaminated material was removed from the site as possible. Four 12 yard trucks (estimated 48 yards) of material was removed from the site to Anderson Site #4 on 4/24/90. With heavy rains expected that evening, the excavated stockpile was again pushed into the hole to prevent surface contamination from stockpile runoff and the collapse of the excavation walls. Further excavation of contaminants was rescheduled to a later date.

The site excavation was resumed on Thursday, May 3. The excavation had filled up with rainwater and runoff over the interval. A water sample was taken prior to removal of the water. There was no visible sheen on the water surface and no odor. Only small accumulations of cohesive bubbles were scattered on the water surface. Midway Sewer Service arrived and removed 1000 gallons and transported it to WLSSD.

The backhoe operator arrived on site and immediately started to remove material from the hole that had been put back in during the rain. Midway Sewer returned for a second load of 1000 gallons for WLSSD. It was decided to excavate small test trenches surrounding the site in an effort to determine the extent of contamination away from the former tank location without having to dig up the entire area. The small test trenches would not be accidentally contaminated from material within the main excavation. The removal of contaminated material and bringing in of clean backfill continued all day.

Four test trenches were completed during the course of the day. Trenches #1, #2, and #4, located on the west, south, and east of the excavation proved to be contaminated (See Table 1 and Figure #6). Test Trench #3, located due south and across the driveway proved to be free of contamination and consisted entirely of lean clay material. The test trenches were backfilled with the same soil immediately thereafter.

On the following day (May 4) Rick Palm, a TPT geologist visited the site. It appeared that contamination had migrated through a lens of porous reddish brown silty sand. Since the excavation site was located within the busy maintenance area of the open golf course, some decisions had to be made regarding further



action. The site was tightly confined by the shop building to the north, buried telephone line to the east, the main access driveway and buried telephone line to the south, and drain tile and main course underground irrigation lines to the west (See Figure #4). The conclusion was to scrape away the top clean surface material and stockpile and reuse it for backfill. Excavate to within a reasonable distance from the obstacles, sample, and backfill with clean material. This work proceeded the rest of the day. The site was visited by Dick Olson, a City of Duluth Street Department Supervisor. He requested that no further backfill be hauled in by the contractor, and that any material needed would be provided by the city.

Excavation of contaminants toward the east was resumed on Monday, 5/8/90, at a point 12 feet east of the prior excavation. Excavation started from a new hole in line with Test Trench #4 (see Figure #6). Excavation working back toward the center was done to avoid cross contamination from known contaminated material in the older pit. The top layer was again scraped away down to a layer of wood blocks (reported to be the floor of an old building on site). This top layer tested clean above the wooden blocks and care was taken not to get into known contaminated material. These blocks were excavated along with the contaminated soils. Excavation toward the east continued and samples were taken throughout. Clean native soils were encountered along the east and southeast walls.

The contractor received verbal authorization from Mr. Bob Troolin of the City of Duluth for closure at 12:15 PM and proceeded to clean out the hole at depth and to the southeast until either MPCA limits for clean closure were reached or a recognized structural barrier had been reached. Telephone service was accidentally interrupted when the backhoe operator broke the line at the southeast corner of the excavation. The excavation went as far as possible without disrupting the access areas of the site. All contaminated material was off site and backfilling proceeded at 2:30 PM. TPT personnel left the site when the excavation was 2/3 filled. City of Duluth trucks were hauling in street sweepings from a local site. Leveling off of site and minor parking improvements were to be made before the contractor left the site.

Materials Encountered:

There were three (3) distinct layers of material encountered during the excavation. Each are described below:

Unit 1. Surface material; angular gravel mixed with fines, a high concentration of which are reported to be street sweepings brought in by the City of Duluth Street Maintenance Department. Layer is generally 10-12" thick throughout. Just below this layer in the NW corner of the excavation was a layer of oily wood blocks that were used as the floor for an old structure on site.



Unit 2. Lean red clay with evenly mixed angular gravel embedded in it. Material is hard and compacted.

Unit 3. A reddish brown moist silty sand and clay; porous with seams or lenses of gravel encountered (areas of general "bleeding" of fluids back into the excavation). This is the material encountered at the level of the USTs and is the material that contains the high concentrations of product.

#### Groundwater Observations:

The excavation site is down slope from a topographic high point to the north and experiences surface runoff occurring from around the building and the roadways to the north. The supervisor of the maintenance shop reports of historically very muddy conditions over the excavation site during periods of heavy precipitation.

Upon first opening the hole on April 24th, pooling of water in the bottom of the open excavation was observed between 7-8 foot depth and thereafter was assumed to be the water table. After the heavy rain over the first weekend, the hole filled with water to 1.5 feet below the surface, acting as a catch basin. There was also trickling of groundwater from a seam in Unit 3 soils on the northwest corner of the excavation. Water trickling down the side of the excavation was also observed from the north center wall from a depth of 2 feet flowing under the layer of wood blocks and over Unit 2 soils (see background information). This flow of water continued throughout the time the excavation was open.

#### Soil Testing Procedures:

Soils exposed in the excavation and all materials in the stockpile were observed for evidence of contamination. Soil samples were periodically collected and analyzed in the field according to MPCA guidelines for "Jar Headspace Analytical Screening Procedures." The instrument used in the field was an HNU Model P1-101 organic vapor detector which is calibrated daily to benzene.

#### Areas of Contamination:

During the excavation process, product flowed out of Tank #1 and pooled into the sandy backfill material that it lay in. That material and the silty sand layer (Unit 3) showed very high and consistent organic vapor readings in all directions. The site had an obviously older UST (Tank #2) still in place that was abandoned in place some years earlier. Most samples were taken at 6-7 feet since that was generally considered to be above the water table at the site. The layer above was a very hard clay (Unit 2) and showed little sign of contamination. At depth some clay was encountered but no definite bedding pattern was found, which is typical of glacial till (see Site Geology).



Laboratory soil samples revealed the presence of gasoline in the area below Tank #1 in the area of the leak described during removal (Table 2, SS-2, 230 ppm). Soil samples, SS-7 and SS-16, indicated the presence of fuel oil at depth and to the south of the tank locations (Figure #8). Those concentrations were strong enough to cover up any gasoline in the sample (Table 2). It is possible that the unknown tank (Tank #2) at one time held fuel oil.

As expected of a maintenance shop area, there is evidence of surface contamination. Incidental spills and overflows occur. There are three above ground petroleum tanks on site. Only the gasoline tank indicated in Figure #4 is close to the excavation. Contaminated surface runoff was observed flowing down the north wall from the top of the clay layer. Another point of interest is the wooden block flooring that looked as though they were treated with a petroleum product that turned them black. It could be creosote or another petroleum coating used for a preservative.

Final vapor analysis readings of the excavation indicate that the east end indicated results below MPCA guidelines (see Figure #7, between 0 and 8 ppm @ 6-7 feet). High readings were predominant on the west side of the excavation and close to the building (see Figure #7). Contamination was associated with Unit 3 soils (silty sand/glacial till).

The fluid that spilled from Tank #1 was tested by the TPT Chemistry Department and recorded a flashpoint reading of 76 degree F., proving to be very volatile. The leak that occurred during the tank removal was registered with the MPCA and has been assigned Spill #2536. Chris Zadak of the MPCA has been appointed to follow up on the site.

#### Soil Samples:

As required by MPCA guidelines, one soil sample was collected from beneath each tank. Also, a sample of the contaminated stockpile and water samples were collected.

Laboratory analysis of soil samples revealed a strong presence of gasoline in the area below Tank #1 and associated with the leak described during its removal. Soil Sample #2 revealed 230 ppm when tested for total hydrocarbons as gasoline taken from a point below Tank #1. Soil samples #7 and #16 indicated the presence of fuel oil at depth and to the south of the tank locations. Concentrations were strong enough to mask the presence of any gasoline in the sample (Table 2).

#### Condition & Description of Tanks:

There were two petroleum storage tanks excavated at the site. Tank #1 was in good condition with no visible ruptures, but was leaking product profusely from one end at the time of removal. The UST was disturbed prior to being pumped dry. It is inconclusive how much fluid leaked out at this time.



Tank #2 was in very poor condition and was abandoned at the time of discovery. It contained 22 inches of what appeared to be ground water that was pumped prior to tank removal. Tank #2 had nine (9) puncture holes visible and was collapsed along both sides. This tank had been left in the ground when abandoned. The owners were unaware of its existence at the time of the excavation. The contents were not known at the time of extraction.

Handling of Contaminated Soils:

Contaminated soils were excavated and hauled to an approved site, Anderson Site #4, on the contractor's property for further treatment by thin spreading, aeration, and addition of organic fertilizer.

Discussion:

Both tanks were removed without much difficulty, except for leakage of fluids from (proving to have a high concentration of product) from Tank #1. The site was excavated in an attempt to dig out of the contamination, but the confines of roadways, structures, and utilities proved to be a problem. Limits of excavation were defined by the structures and utilities surrounding the site. Disruption of entry/exit on the only road into the Maintenance Shop was avoided.

Contamination on site was identified as gasoline, but also included fuel oil. When questioned on the use of fuel oil, employees related that fuel oil is the source of heat for the maintenance shop. There is also a diesel powered front end loader at the shop. Both use fuel oil from an above ground tank on the west end of the building. However, this does not discount the possibility that the unknown tank could have been an underground fuel oil storage tank. Oil products may have been introduced through the wooden block flooring of the former workshop. Soils with an oily sheen were noted directly beneath this flooring material which was discovered at the west side of the excavation. Laboratory analyses indicated fuel oil contamination in the west side of the excavation.

Migration of contaminants beyond the limits of the excavation in the subsurface was not determined. There was evidence of contaminant movement through the sandy lenses in the Unit 3 type soils. The extent of these lenses beyond the limits of the excavation is unknown.

The soil boring data from Phelps (Figure #2) indicate the silty sand to the north gives way to clay in near surface soils south of the Maintenance Shop. This change in geomorphology seems to follow the Lester River Valley. It might be that the soils closer to the river were deposited in a higher energy environment depositing coarse grained material closer to the river valley. The borings suggest that the subsoils to the south should be primarily clays and would inhibit subsoil migration.



A total of 396 cubic yards of contaminated material was hauled off the site to Anderson #4 Site, and 220 cubic yards of backfill material was brought in from the Anderson Pit with the balance of the clean fill was brought in by the City of Duluth. Once excavation limits were determined, the excavation was backfilled.

#### Risk Assessment:

The results of soil vapor and laboratory analysis of soil samples indicate that the excavation did not meet MPCA guidelines for clean closure. Authorization for closure of the site came from Bob Troolin, City of Duluth Risk Management Specialist and Project Director after conferring with officials from the MPCA.

Soils contamination is concentrated to the west of the tank locations and close to the building. It seems to be localized in a sandy clay glacial till below an clay layer. All water wells on site are deep and far enough away that it is unlikely that they would be affected by the release. These wells are used for irrigation, not drinking water. The risks to public health and the environment associated with this petroleum release is minimal.

#### Conclusions:

Contaminated soils remain at depth below the Maintenance Shop road and parking lot. The full extent of the contamination remains undetermined at this time.

The nursery areas near the maintenance shop and across the road do not and have not shown any effects of damage due to contaminants from the subsoil. Only limited soil vapors were detected in a test trench dug across the service road to the south.

The excavation was closed due to the proximity of structures and utilities. Further excavation would have disrupted the busy routine of the golf course maintenance activities.

The product that was held in Tank #2 was unknown when it was discovered. It was assumed that it was another gasoline tank for fueling of vehicles. The presence of fuel oil in laboratory samples indicate that the product in Tank #2 might have been #2 fuel oil or diesel fuel.

The former Maintenance Shop floor area was a potential source of surface contamination. Incidental spills and overflows occur in that environment. Contaminated surface runoff was observed flowing down the north wall from the top of the clay layer that underlies the wood blocks. Contamination could be coming directly off the wooden blocks or from spillage over time inside of the old shop. The coating looked like it could be creosote or another petroleum coating used for a preservative.

The site location is at least one-half mile from any residential area and is utilized as a recreational golf course. The wells on site are very deep and are used to feed well-sealed clay lined



ponds that will not mix with the groundwater or be used as drinking water.

A total of 396 cubic yards of contaminated material were hauled off the site to Anderson #4 Site, and 220 cubic yards of backfill material were brought in from the Anderson Pit with the balance of the clean fill brought in by the City of Duluth.

Recommendations:


The contamination at the site presents little risk to residential or commercial water sources in the area. However, the extent of contamination found at the site was not fully determined or cleaned out by the excavation process.

It is recommended that further investigation be conducted to define the extent of soil and groundwater contamination. We recommend soil borings be placed around and down slope from the release site.

This report was completed in June, 1990.

**TWIN PORTS TESTING, INC.**

Written and Prepared by:

  
\_\_\_\_\_  
Jack R. Granquist, Environmental Scientist

Reviewed by:

  
\_\_\_\_\_  
Rick Palm, Geologist



## Figures



THE POSITION OF THE - BORING, WAS MADE BY  
PLAYERS MARKED, THEREAFTER LOCATED THE  
HOLE IN THE GROUND.

LOG OF SOIL BORING

NO.	DEPTH/FEET	DESCRIPTION OF MATERIAL
1	0 - 2	SANDY SILT, FINEST GRAIN, WITH WITH SPINDLES
2	2 - 4	SILTY SAND, FINEST GRAIN, WITH WITH SPINDLES
3	4 - 10	SANDY CLAY, FINEST GRAIN, WITH WITH SPINDLES
4	0 - 4	SILT, A LITTLE GRAIN, LAY, WITH WITH SPINDLES
5	4 - 5	SILTY SAND, FINEST GRAIN, WITH WITH SPINDLES
6	5 - 10	SANDY CLAY, FINEST GRAIN, WITH WITH SPINDLES
7	0 - 3	SILT, SAND, WITH, WITH SPINDLES
8	3 - 7	SILTY CLAY, A LITTLE GRAIN, FINEST GRAIN, WITH SPINDLES
9	7 - 10	FAT CLAY, FINEST GRAIN, WITH WITH SPINDLES
10	0 - 2	LEAN CLAY, A LITTLE GRAIN, WITH WITH SPINDLES
11	2 - 4	SILTY CLAY, FINEST GRAIN, WITH WITH SPINDLES
12	4 - 4.5	FAT CLAY, FINEST GRAIN, WITH WITH SPINDLES
13	4.5 -	LEADCLAY
14	0 - 3	FAT CLAY, A LITTLE GRAIN, WITH WITH SPINDLES
15	3 - 10	LEAN CLAY, FINEST GRAIN, WITH WITH SPINDLES
16	0 - 1.5	FAT CLAY, SAND, WITH, WITH WITH SPINDLES
17	1.5 -	LEADCLAY
18	0 - 3	SILTY CLAY, SAND, WITH, WITH WITH SPINDLES
19	3 - 4	FAT CLAY, FINEST GRAIN, WITH WITH SPINDLES
20	4 -	LEADCLAY
21	0 - 2	SILTY CLAY, SAND, WITH, WITH WITH SPINDLES
22	2 -	LEADCLAY
23	0 - 1.5	SILTY CLAY, FINEST GRAIN, WITH WITH SPINDLES
24	1.5 -	LEADCLAY
25	0 - 1	SILTY CLAY, SAND, WITH, WITH WITH SPINDLES
26	1 - 4.5	SILTY CLAY, FINEST GRAIN, WITH WITH SPINDLES
27	4.5 -	LEADCLAY



IRRIGATION WELL SITE

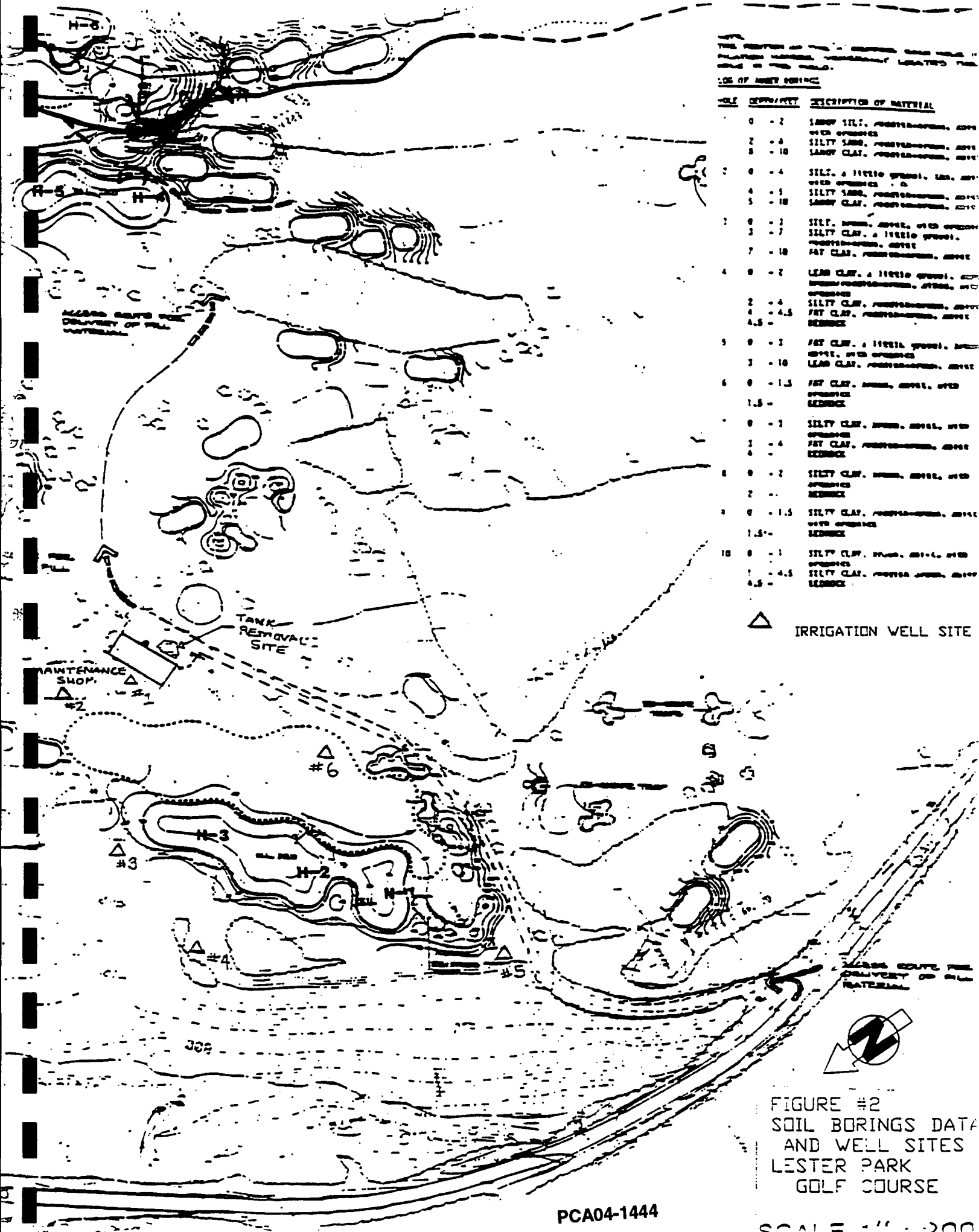


FIGURE #2  
SOIL BORINGS DATA  
AND WELL SITES  
LESTER PARK  
GOLF COURSE

PCA04-1444

SCALE = 1" = 200'



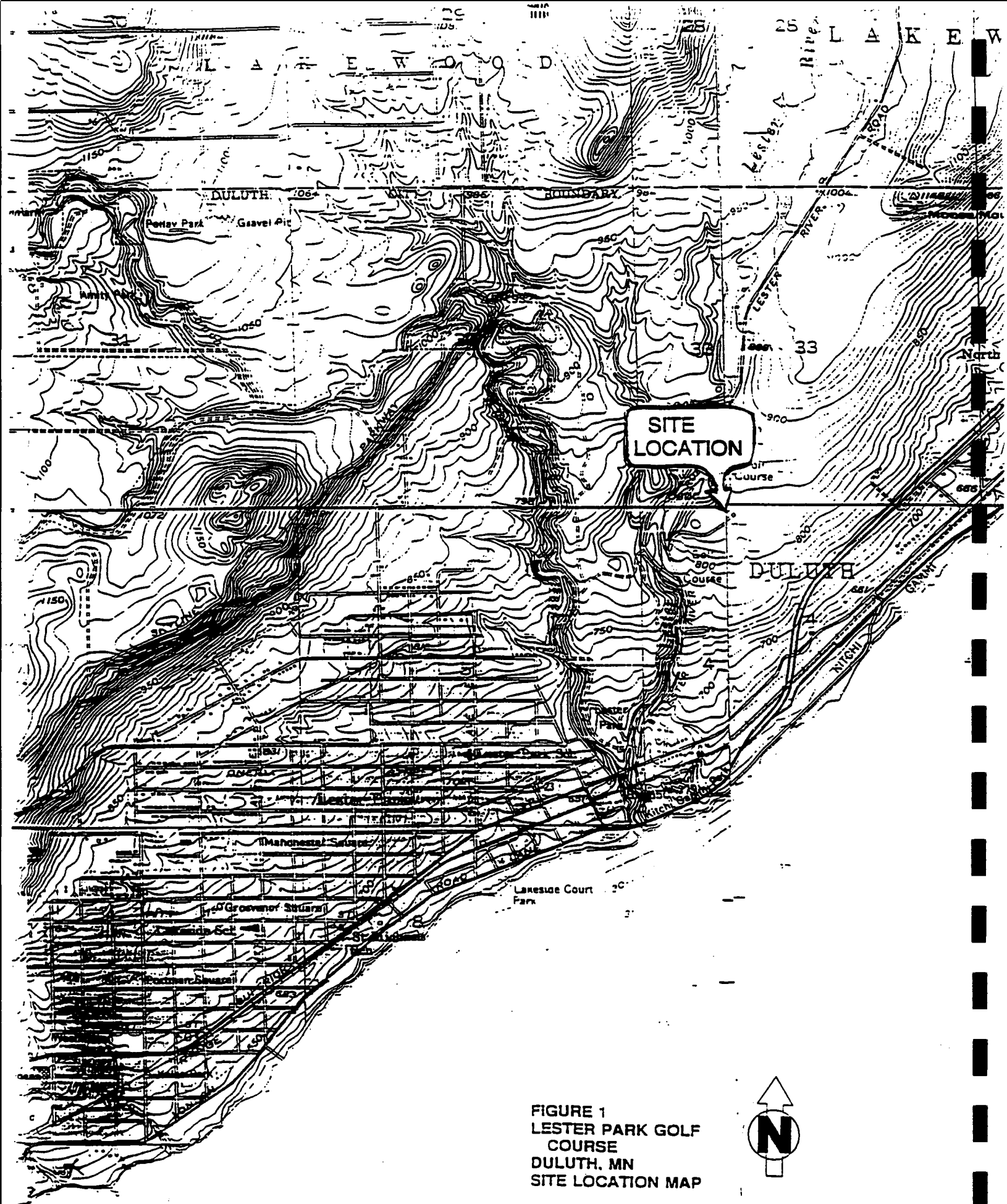
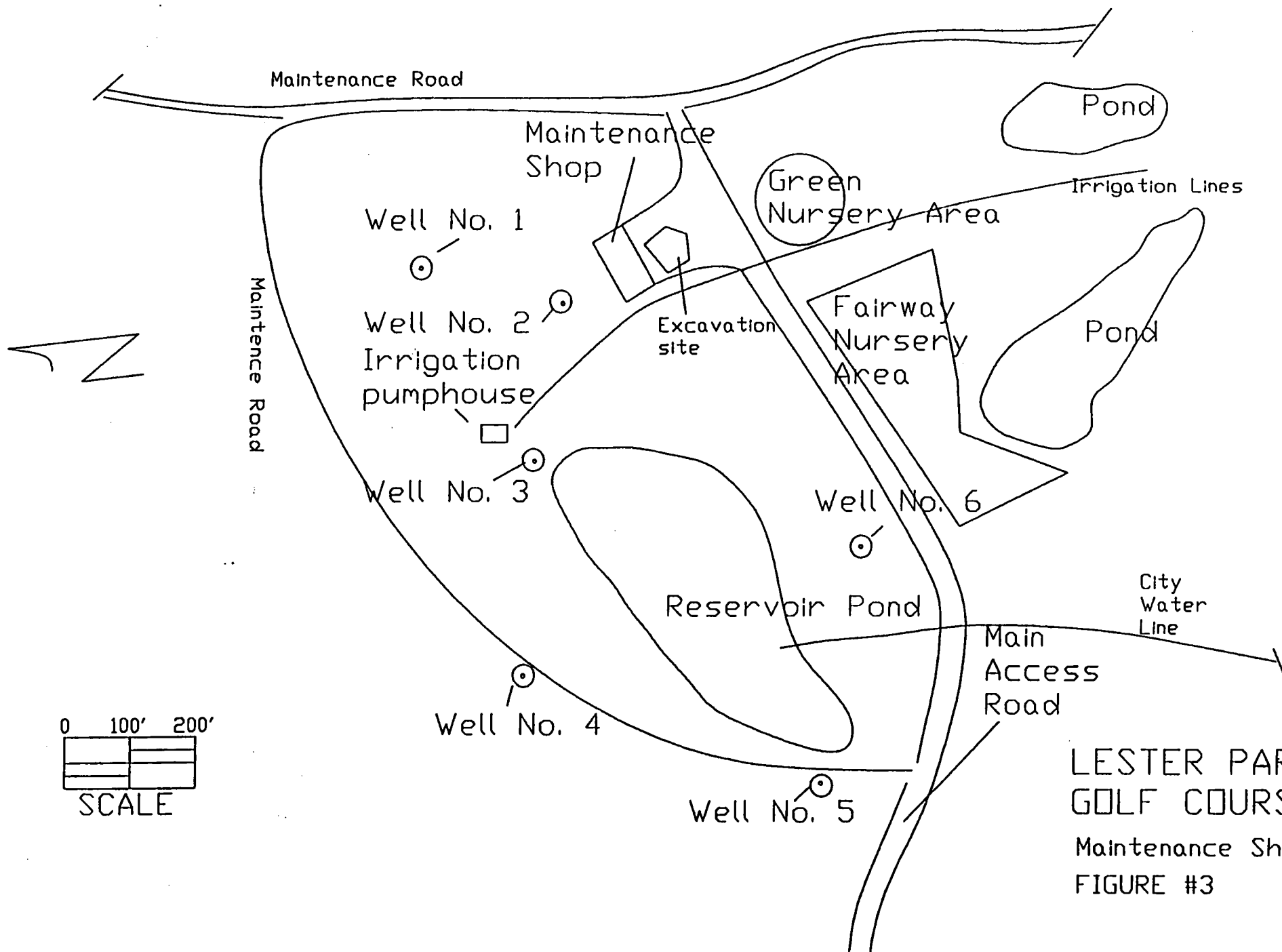


FIGURE 1  
LESTER PARK GOLF  
COURSE  
DULUTH, MN  
SITE LOCATION MAP







LESTER PARK  
GOLF COURSE  
Maintenance Shop  
FIGURE #3





# LESTER PARK GOLF COURSE MAINTAINANCE SHOP

POWER POLE

TANK #1 VENT PIPE

FILL PIPE

OVER HEAD DOOR

ABOVE GROUND  
GASOLINE TANK

GASOLINE PUMP

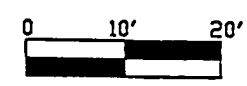
EXCAVATION  
LIMITS

TANK #2

TANK #1

UNDER GROUND  
TELEPHONE CABLE

GRAVEL ROAD

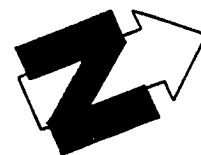


SCALE

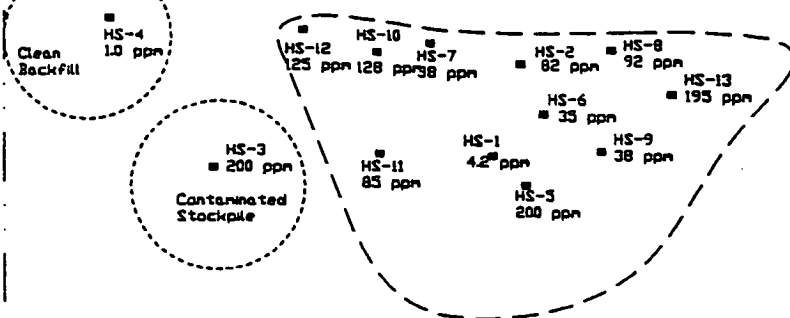
MAIN WATER LINES  
FOR IRRIGATION

FIGURE #4  
EXCAVATION OF  
TANKS #1 & #2  
LESTER PARK  
GOLF COURSE  
DULUTH, MN

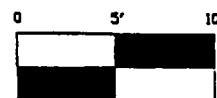




TANK #1 VENT PIPE  
FILL PIPE  
OVER HEAD DOOR  
ABOVE GROUND GASOLINE TANK (265 GALLON)  
GASOLINE PUMP



GRAVEL ROAD



SCALE

MAIN WATER LINES  
FOR IRRIGATION

FIGURE #5  
VAPOR HEADSPACE  
READINGS  
INITIAL EXCAVATION  
LESTER PARK  
GOLF COURSE



TANK #1 VENT PIPE  
 FILL PIPE OVER HEAD DOOR  
 ABOVE GROUND GASOLINE TANK (265 GALLON)  
 GASOLINE PUMP

HS-18  
 0.0 ppm

Trench #1

HS-17 38 ppm  
 HS-18 88 ppm

HS-28 110 ppm  
 HS-26 193 ppm  
 HS-27 80 ppm  
 HS-19 95 ppm  
 HS-15 5.6 ppm

Trench #2

HS-20 72 ppm  
 HS-21 108 ppm

HS-24 98 ppm  
 HS-25 110 ppm

Trench #4

GRAVEL ROAD

Trench #3

HS-22 0.6 ppm  
 HS-23 0.8 ppm

0 5' 10'  
 SCALE

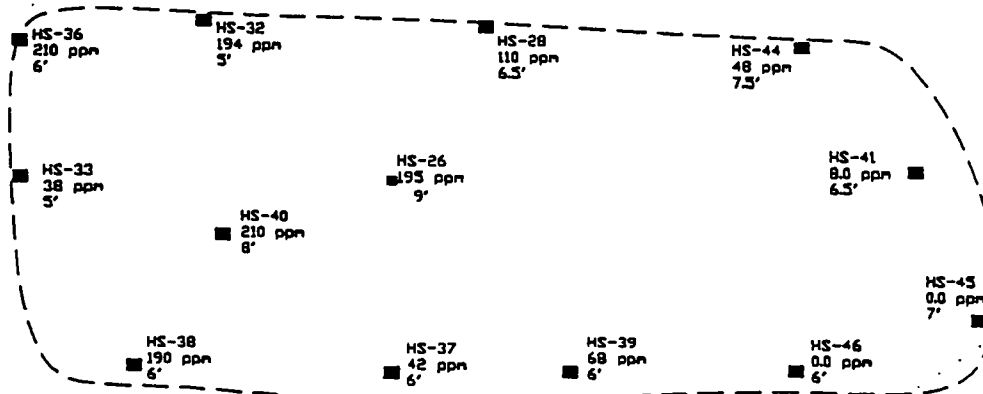
MAIN WATER LINES  
 FOR IRRIGATION

FIGURE #6  
 EXCAVATION SHOWING  
 EXPLORATION TRENCHES  
 LESTER PARK  
 GOLF COURSE

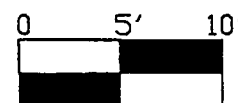




TANK #1 VENT PIPE  
FILL PIPE  
OVER HEAD DOOR  
ABOVE GROUND GASOLINE TANK (265 GALLON)  
GASOLINE PUMP



GRAVEL ROAD



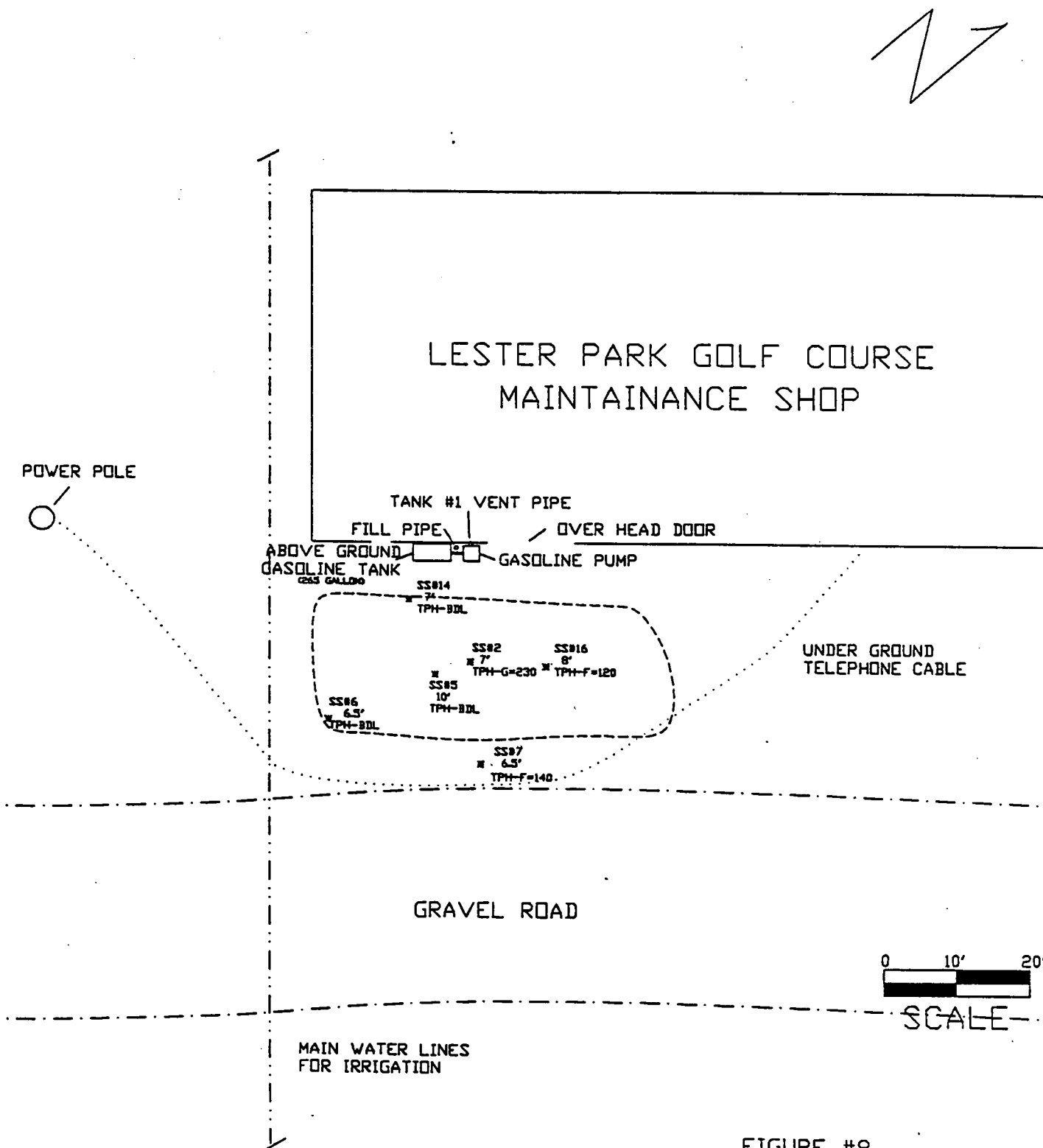
SCALE

MAIN WATER LINES  
FOR IRRIGATION

FIGURE #7  
FINAL EXCAVATION &  
VAPOR READINGS  
LESTER PARK  
GOLF COURSE

PCA04-1450





x Soil Sample Site  
 TPH-BDL -- Below Detectable Limits  
 TPH-F -- Total Petroleum Hydrocarbons as Fuel Oil  
 TPH-G -- Total Petroleum Hydrocarbons as Gasoline

FIGURE #8  
 SOILS ANALYSIS RESULTS  
 TOTAL HYDROCARBONS

LESTER PARK GOLF COURSE



## Tables



**TABLE 1**  
**SUMMARY OF HEADSPACE ANALYSIS**  
**City of Duluth**  
**Lester Park Golf Course**  
**TPT# 91-90E**

DATE	LOCATION	DEPTH	SOIL TYPE	ORGANIC VAPOR CONCENTRATION (ppm)	COMMENTS
4-24-90	HS-1	1'	Gravel Fill	4.2	Left side of fill pipe
	HS-2	3'	Gravel Fill	82	North end of Tanks under blacktop surface
	HS-3	2'	Sandy Gravel	200	Up stockpile West of Excav
	HS-4	2'	Street Sweeping	1.0	Clean Backfill brought by City
	HS-5	5'	Sandy Fill	200	Under Tank # 1
	HS-6	5'	Sandy Fill	35	Under Tank # 2
	HS-7	6'	Clay	38	North Wall North West Tank # 1
	HS-8	6'	Clay	92	North Wall North East Tank # 2
	HS-9	5'	Clay	38	East Wall
	HS-10	6'	Clay	128	North West Corner of Excavation
	HS-11	7'	Gravel	85	West of Tanks
	HS-12	8'	Gravel Beds	125	Up Trench West Wall
	HS-13	6'	Sandy Clay	195	Up Trench East Wall
	HS-14	Sample	No.	Not	Used
5-3-90	HS-15	2'	Reddish Brown Silty Sand	5.6	Below Water Level South Wall
	HS-16	5'	Same	38	Test Hole # 1
	HS-17	6 1/2'	Same	88	Bottom Test Hole # 1
	HS-18	6'	Clean Sand	0	Backfill Material From Anderson Pit
	HS-19	6 1/2'	Silty Sand	95	South Wall of Excavation
	HS-20	5'	Silty Clay	72	Test Hole # 2
	HS-21	6 1/2'	Silty Sand	108	Bottom of Test Hole # 2
	HS-22	4 1/2'	Lean Red Clay	0.6	Test Hole # 3
	HS-23	6 1/2'	Lean Red Clay	0.8	Bottom of Test Hole # 3
	HS-24	5'	Reddish Brown Silty Sand	98	Test Hole # 4
5-3-90	HS-25	6 1/2'	Silty Sand	110	Bottom Test Hole # 4
	HS-26	9'	Clay	195	Bottom Center of Pit



DATE	LOCATION	DEPTH	SOIL TYPE	ORGANIC VAPOR CONCENTRATION (ppm)	COMMENTS
	HS-27	6'	Silty Sand	80	East Wall of Excavation
	HS-28	6 1/2'	Silty Sand	110	North Wall of Excavation
5-4-90	HS-29	6'	Gravel & Silt	0.4	Surface Material of Driveway
	HS-30	1 1/2'	Clay	5.2	Layer # 2
	HS-31	3'	Clay	130	East Wall of Excavation
	HS-32	5'	Reddish Brown Silty Sand	194	North Wall West of Center
	HS-33	5'	Same	38	West Wall Centered
	HS-34	Stockpile # 1	Gravel & Clay	5.4	Surface Material
	HS-35	Stockpile # 2	Gravel & Clay	98	Front Pile Surface Material Hauled Out
	HS-36	6'	Reddish Brown Silty Sand	210	West Wall North End
	HS-37	6'	Same	42	West Wall Center
	HS-38	6'	Same	190	South Wall West of Center
	HS-39	6'	Same	68	South Wall East of Center
	HS-40	8'	Silty Sand & Clay	210	Bottom West of Center
5-7-90	HS-41	6 1/2'	Reddish Brown Silty Sand	8.0	Middle East of Center
	HS-42	6 1/2'	Same	38	West End of East Excavation
	HS-43	5 1/2'	Same	178	West End of Excavation
	HS-44	7 1/2'	Red Clay	48	North Wall 7 1/2' East Excavation
	HS-45	7'	Reddish Brown Silty Sand	0	East Wall Lower
	HS-46	6'	Sandy Clay	0	East Wall Upper
	HS-47	6'	Reddish Brown Silty Sand	0	East Wall of Excavation.



**TABLE 2****Summary of Soil Sample Analysis**

**Lester Park Golf Course  
1860 Lester River Road  
Duluth, Minnesota 55804**

**TPT #91-90E**

Sample #	SS #2	SS #6	SS #5	SS #7	SS #16	SS #14
Location	Below tank	Bottom test hole #1	Bottom center of excav.	Bottom test hole #2	Bottom E of center of excav.	North wall W of center of excav.
Depth	7'	6 1/2'	10'	6 1/2'	8'	
Benzene (ppm)	3.3	<0.005	<0.005	<0.01 (C)	<0.01 (C)	<0.005
Ethylbenzene (ppm)	2.3	0.007	<0.005	0.52	0.29	<0.005
Toluene (ppm)	8.3	<0.005	<0.005	<0.01 (C)	<0.01 (C)	<0.005
Xylene (ppm)	20	0.016	0.011	0.42	0.97	0.006
FID Scan Total Hydrocarbons as Fuel Oil (ppm)	(A)	<2.0	<2.0	140	120	<2.0
FID Scan Total Hydrocarbons as Gasoline (ppm)	230	<0.50	<0.50	(B)	(B)	<0.50
Lead, as Pb (ppm)	38	12	17	14	23	13

(A) = Unable to quantify due to presence of gasoline

(B) = Unable to quantify due to presence of fuel oil

(C) = Increased detection limits due to high level of contamination



## Appendix A





# SERCO Laboratories

REC'D JUN 5 1990

931 West County Road C2, St. Paul, Minnesota 55113 (612) 636-7173

LABORATORY ANALYSIS REPORT NO: 1131  
06/01/90

PAGE 1

Twin Ports Testing  
1301 North Third Street  
Superior, WI 54880

DATE COLLECTED: 05/03/90; 05/07/90  
DATE RECEIVED: 05/09/90  
COLLECTED BY: CLIENT  
DELIVERED BY: CLIENT  
SAMPLE TYPE: SOIL

Attn: Jack Granquist

SERCO SAMPLE NO:	34140	34150	34160	34170
SAMPLE DESCRIPTION:	SS#2 91-90E Lester Golf	SS#6	SS#5	SS#1
ANALYSIS:				
Benzene, mg/kg	3.3	<0.005	<0.005	<0.01 (C)
Ethylbenzene, mg/kg	2.3	0.007	<0.005	0.52
Toluene, mg/kg	8.3	<0.005	<0.005	<0.01 (C)
Xylene, mg/kg	20	0.016	0.011	0.42
FID Scan, mg/kg, as #2 fuel oil	(A)	<2.0	<2.0	140
FID Scan, mg/kg, as gasoline	230	<0.50	<0.50	(B)
Lead, mg/kg as Pb	38	12	17	14

SERCO SAMPLE NO:	34180	34190
SAMPLE DESCRIPTION:	SS#16	SS#14
ANALYSIS:		
Benzene, mg/kg	<0.01 (C)	<0.005
Ethylbenzene, mg/kg	0.29	<0.005
Toluene, mg/kg	<0.01 (C)	<0.005
Xylene, mg/kg	0.97	0.006
FID Scan, mg/kg, as #2 fuel oil	120	<2.0
FID Scan, mg/kg, as gasoline	(B)	<0.50
Lead, mg/kg as Pb	23	13

(A) Unable to quantify due to the presence of gasoline.

(B) Unable to quantify due to the presence of fuel oil.

(C) Increased detection limits due to high level of contamination.

PCA04-1457







# SERCO Laboratories

REC'D JUN 5 1990

931 West County Road C2, St. Paul, Minnesota 55113 (612) 636-7173

LABORATORY ANALYSIS REPORT NO: 1131  
06/01/90

PAGE 2

All analyses were performed using EPA or other accepted methodologies. Samples that may be of an environmentally hazardous nature will be returned to you. Other samples will be stored for 30 days from the date of this report, then disposed of by SERCO LABORATORIES. Please contact me if other arrangements are needed.

Report submitted by,

Diane J. Anderson  
Project Manager

PCA04-1458





# CHAIN OF CUSTODY RECORD

PROJECT NO. **91-90E** PROJECT NAME / CLIENT **Lester Golf**

AMPLERS: (Signature) *Jack R. Grangvist*

SAMPLE NO.	DATE	TIME	COMP	GRAB	SAMPLE LOCATION	NO. OF CONTAINERS	NO. OF CONTAINERS					REMARKS
							TPH as Gravel	TPH as Fuel Oil	RET	MIRE	LEAD	
5# 2	5/3		X		Below Tank	1	X	X	X	X	X	Below Tank - Slurry
5# 6	5/3			X	Test hole #1	1	X	X	X	X	X	6 1/2 Foot bot.
5# 5	5/3			X	Bottom Center 10'	1	X	X	X	X	X	Bottom center of Excavation
5# 7	5/3			X	Bottom Test Hole #2 6 1/2'	1	X	X	X	X	X	Test Hole #2
5# 16	5/7			X	East End of Excavation	1	X	X	X	X	X	Center Bottom
5# 14	5/7			X	North Wall	1	X	X	X	X	X	Level of the Seam
<del>5# 1</del>	<del>5/3</del>		<del>X</del>	<del></del>	<del>Water at bottom of Exc.</del>	<del>1</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>Bottom of Excavation</del>

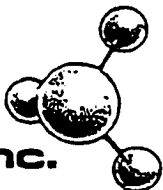
RELINQUISHED BY: (Signature) <i>[Signature]</i>	DATE/TIME 5/1/90 5 PM	RECEIVED BY: (Signature) <i>Pam W. Jensen</i>	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LABORATORY BY: (Signature)	DATE/TIME	REMARKS:	

**PORTS TESTING Inc.**

PCA04-1459  
JUN 5 1991



SINCE 1972



**PORTS TESTING inc.**

1301 NORTH THIRD STREET ■ SUPERIOR, WISCONSIN 54880  
FAX # 715-392-7163 ■ (715) 392-7114

## LABORATORY REPORT

**Firm** CITY OF DULUTH

**TPT Lab No.** 91-90E

**Material** UNKNOWN

**Taken By** TPT

**Date Received** 04/24/90

**Date Tested** 04/30/90

**Sample  
Designation** FLUID SAMPLE #1

## DATA

FLASH POINT (°F): 76

**PREPARED BY**

*Kari L. Mass*

**DATE**

*04/30/90*

PCA04-1460

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**EXCAVATION AND PETROLEUM  
RELEASE REPORT**

**Lester Park Golf Course  
Maintenance Shop**

**City Of Duluth**

**1860 Lester River Road  
Duluth, Minnesota**

**Mr. Bob Troolin  
Administrative Services  
313 City Hall  
Duluth, Minnesota 55802**



Date/Time: 12:10



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1-800-7-ENCHEM

### - Analytical Report -

Project Name : COD LESTER PARK GOLF COURSE

Project Number :

MN LAB ID : 055-999-334

Client: REMEDIATION SERVICES INC

Report Date : 12/19/97

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
770394-001	MW-1	12/15/97			
770394-002	MW-2	12/15/97			
770394-003	MW-3	12/15/97			
770394-004	MW-4	12/15/97			
770394-005	MW-5	12/15/97			
770394-006	GP-1	12/15/97			

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

Thomas P. Marklee  
Approval Signature

12-19-97  
Date

PCA04-1464



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Lab#:	TestGroupID:	Comment:
770394-001	DRO-W	Diesel range peaks present in the chromatogram.
770394-002	GRO-W	Sample exhibits hydrocarbon pattern resembling gasoline. Early and late peaks were present outside of window.
	DRO-W	Front peaks,late eluting hump and diesel range peaks present in the chromatogram.
770394-003	DRO-W	Elevated detection limit due to low sample volume.
	DRO-W	Diesel range peaks present in the chromatogram.
770394-004	DRO-W	Diesel range peaks present in the chromatogram.
770394-005	DRO-W	Diesel range peaks present in the chromatogram.



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## - Analytical Report -

Project Name : COD LESTER PARK GOLF COURSE

Project Number :

Client : REMEDIATION SERVICES INC

Field ID : MW-1

Report Date : 12/19/97

Lab Sample Number : 770394-001

Collection Date : 12/15/97

MDH LAB ID : 055-999-334

Matrix Type : WATER

### Organic Results

Preservation Date:

#### BTEX - WATER

Prep Method: SW846 5030 Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	106	—	%Recov		12/18/97	SW846 8020
Benzene	< 1.0	1.0	ug/l		12/18/97	SW846 8020
Ethylbenzene	< 1.0	1.0	ug/l		12/18/97	SW846 8020
Toluene	< 1.0	1.0	ug/l		12/18/97	SW846 8020
Xylenes, -m, -p	< 2.0	2.0	ug/l		12/18/97	SW846 8020
Xylene, -o	< 1.0	1.0	ug/l		12/18/97	SW846 8020

### Organic Results

Preservation Date:

#### DIESEL RANGE ORGANICS - WATER

Prep Method: Wi Mod DRO Prep Date: 12/17/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
DIESEL RANGE ORGANICS	< 110	110	ug/l		12/18/97	WI Mod DRO
Blank spike	107	—	%Recov		12/18/97	WI Mod DRO
Blank spike duplicate	103	—	%Recov		12/18/97	WI Mod DRO
DRO blank	< 50	50	ug/l		12/18/97	WI Mod DRO

### Organic Results

Preservation Date:

#### GASOLINE RANGE ORGANICS - WATER

Prep Method: Wi Mod GRO Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
GASOLINE RANGE ORGANIC	< 50	50	ug/l		12/18/97	WI Mod GRO
Blank Spike	105	—	%Recov		12/18/97	WI Mod GRO
Blank Spike Duplicate	100	—	%Recov		12/18/97	WI Mod GRO
GRO blank	< 50	50	ug/l		12/18/97	WI Mod GRO

PCA04-1466



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## - Analytical Report -

Project Name : COD LESTER PARK GOLF COURSE

Project Number :

Client : REMEDIATION SERVICES INC

Field ID : MW-2

Report Date : 12/19/97

Lab Sample Number : 770394-002

Collection Date : 12/15/97

MDH LAB ID : 055-999-334

Matrix Type : WATER

### Organic Results

Preservation Date:

#### BTEX - WATER

Prep Method: SW846 5030 Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	112	—	%Recov		12/19/97	SW846 8020
Benzene	160	2.0	ug/l		12/19/97	SW846 8020
Ethylbenzene	20	2.0	ug/l		12/19/97	SW846 8020
Toluene	5.3	2.0	ug/l		12/19/97	SW846 8020
Xylenes, -m, -p	< 4.0	4.0	ug/l		12/19/97	SW846 8020
Xylene, -o	4.2	2.0	ug/l		12/19/97	SW846 8020

### Organic Results

Preservation Date:

#### DIESEL RANGE ORGANICS - WATER

Prep Method: Wi Mod DRO Prep Date: 12/17/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
DIESEL RANGE ORGANICS	440	110	ug/l		12/18/97	Wi Mod DRO
Blank spike	107	—	%Recov		12/18/97	Wi Mod DRO
Blank spike duplicate	103	—	%Recov		12/18/97	Wi Mod DRO
DRO blank	< 50	50	ug/l		12/18/97	Wi Mod DRO

### Organic Results

Preservation Date:

#### GASOLINE RANGE ORGANICS - WATER

Prep Method: Wi Mod GRO Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
GASOLINE RANGE ORGANIC	2400	100	ug/l		12/19/97	Wi Mod GRO
Blank Spike	105	—	%Recov		12/19/97	Wi Mod GRO
Blank Spike Duplicate	100	—	%Recov		12/19/97	Wi Mod GRO
GRO blank	< 50	50	ug/l		12/19/97	Wi Mod GRO



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## - Analytical Report -

Project Name : COD LESTER PARK GOLF COURSE

Project Number :

Client : REMEDIATION SERVICES INC

Field ID : MW-3

Report Date : 12/19/97

Lab Sample Number : 770394-003

Collection Date : 12/15/97

MDH LAB ID : 055-999-334

Matrix Type : WATER

### Organic Results

Preservation Date:

BTEX - WATER

Prep Method: SW846 5030 Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	104	—	%Recov		12/18/97	SW846 8020
Benzene	< 1.0	1.0	ug/l		12/18/97	SW846 8020
Ethylbenzene	< 1.0	1.0	ug/l		12/18/97	SW846 8020
Toluene	< 1.0	1.0	ug/l		12/18/97	SW846 8020
Xylenes, -m, -p	< 2.0	2.0	ug/l		12/18/97	SW846 8020
Xylene, -o	< 1.0	1.0	ug/l		12/18/97	SW846 8020

### Organic Results

Preservation Date:

DIESEL RANGE ORGANICS - WATER

Prep Method: Wi Mod DRO Prep Date: 12/17/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
DIESEL RANGE ORGANICS	< 120	120	ug/l		12/18/97	WI Mod DRO
Blank spike	107	—	%Recov		12/18/97	WI Mod DRO
Blank spike duplicate	103	—	%Recov		12/18/97	WI Mod DRO
DRO blank	< 50	50	ug/l		12/18/97	WI Mod DRO

### Organic Results

Preservation Date:

GASOLINE RANGE ORGANICS - WATER

Prep Method: Wi Mod GRO Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
GASOLINE RANGE ORGANIC	< 50	50	ug/l		12/18/97	WI Mod GRO
Blank Spike	105	—	%Recov		12/18/97	WI Mod GRO
Blank Spike Duplicate	100	—	%Recov		12/18/97	WI Mod GRO
GRO blank	< 50	50	ug/l		12/18/97	WI Mod GRO

PCA04-1468



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## - Analytical Report -

Project Name : COD LESTER PARK GOLF COURSE

Project Number :

Client : REMEDIATION SERVICES INC

Field ID : MW-4

Report Date : 12/19/97

Lab Sample Number : 770394-004

Collection Date : 12/15/97

MDH LAB ID : 055-999-334

Matrix Type : WATER

### Organic Results

Preservation Date:

#### BTEX - WATER

Prep Method: SW846 5030 Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	104	—	%Recov		12/18/97	SW846 8020
Benzene	< 1.0	1.0	ug/l		12/18/97	SW846 8020
Ethylbenzene	< 1.0	1.0	ug/l		12/18/97	SW846 8020
Toluene	< 1.0	1.0	ug/l		12/18/97	SW846 8020
Xylenes, -m, -p	< 2.0	2.0	ug/l		12/18/97	SW846 8020
Xylene, -o	< 1.0	1.0	ug/l		12/18/97	SW846 8020

### Organic Results

Preservation Date:

#### DIESEL RANGE ORGANICS - WATER

Prep Method: Wi Mod DRO Prep Date: 12/17/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
DIESEL RANGE ORGANICS	< 110	110	ug/l		12/18/97	Wi Mod DRO
Blank spike	107	—	%Recov		12/18/97	Wi Mod DRO
Blank spike duplicate	103	—	%Recov		12/18/97	Wi Mod DRO
DRO blank	< 50	50	ug/l		12/18/97	Wi Mod DRO

### Organic Results

Preservation Date:

#### GASOLINE RANGE ORGANICS - WATER

Prep Method: Wi Mod GRO Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
GASOLINE RANGE ORGANIC	< 50	50	ug/l		12/18/97	Wi Mod GRO
Blank Spike	105	—	%Recov		12/18/97	Wi Mod GRO
Blank Spike Duplicate	100	—	%Recov		12/18/97	Wi Mod GRO
GRO blank	< 50	50	ug/l		12/18/97	Wi Mod GRO



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## - Analytical Report -

Project Name : COD LESTER PARK GOLF COURSE

Project Number :

Client : REMEDIATION SERVICES INC

Field ID : MW-5

Report Date : 12/19/97

Lab Sample Number : 770394-005

Collection Date : 12/15/97

MDH LAB ID : 055-999-334

Matrix Type : WATER

### Organic Results

Preservation Date:

BTEX - WATER

Prep Method: SW846 5030 Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	106	—	%Recov		12/18/97	SW846 8020
Benzene	1.1	1.0	ug/l		12/18/97	SW846 8020
Ethylbenzene	< 1.0	1.0	ug/l		12/18/97	SW846 8020
Toluene	< 1.0	1.0	ug/l		12/18/97	SW846 8020
Xylenes, -m, -p	< 2.0	2.0	ug/l		12/18/97	SW846 8020
Xylene, -o	< 1.0	1.0	ug/l		12/18/97	SW846 8020

### Organic Results

Preservation Date:

DIESEL RANGE ORGANICS - WATER

Prep Method: Wi Mod DRO Prep Date: 12/17/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
DIESEL RANGE ORGANICS	< 110	110	ug/l		12/18/97	Wi Mod DRO
Blank spike	107	—	%Recov		12/18/97	Wi Mod DRO
Blank spike duplicate	103	—	%Recov		12/18/97	Wi Mod DRO
DRO blank	< 50	50	ug/l		12/18/97	Wi Mod DRO

### Organic Results

Preservation Date:

GASOLINE RANGE ORGANICS - WATER

Prep Method: Wi Mod GRO Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
GASOLINE RANGE ORGANIC	< 50	50	ug/l		12/18/97	Wi Mod GRO
Blank Spike	105	—	%Recov		12/18/97	Wi Mod GRO
Blank Spike Duplicate	100	—	%Recov		12/18/97	Wi Mod GRO
GRO blank	< 50	50	ug/l		12/18/97	Wi Mod GRO

PCA04-1470



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## - Analytical Report -

Project Name : COD LESTER PARK GOLF COURSE

Project Number :

Client : REMEDIATION SERVICES INC

Field ID : GP-1

Report Date : 12/19/97

Lab Sample Number : 770394-006

Collection Date : 12/15/97

MDH LAB ID : 055-999-334

Matrix Type : WATER

### Organic Results

Preservation Date:

BTEX - WATER

Prep Method: SW846 5030 Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	105	---	%Recov		12/18/97	SW846 8020
Benzene	< 1.0	1.0	ug/l		12/18/97	SW846 8020
Ethylbenzene	< 1.0	1.0	ug/l		12/18/97	SW846 8020
Toluene	< 1.0	1.0	ug/l		12/18/97	SW846 8020
Xylenes, -m, -p	< 2.0	2.0	ug/l		12/18/97	SW846 8020
Xylene, -o	< 1.0	1.0	ug/l		12/18/97	SW846 8020

### Organic Results

Preservation Date:

GASOLINE RANGE ORGANICS - WATER

Prep Method: Wi Mod GRO Prep Date: 12/18/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
GASOLINE RANGE ORGANIC	< 50	50	ug/l		12/18/97	WI Mod GRO
Blank Spike	105	---	%Recov		12/18/97	WI Mod GRO
Blank Spike Duplicate	100	---	%Recov		12/18/97	WI Mod GRO
GRO blank	< 50	50	ug/l		12/18/97	WI Mod GRO



**PCA04-1472**



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- Analytical Report -

Project Name : COD LESTER PARK GOLF COURSE

Project Number :

Client: REMEDIATION SERVICES INC

MN LAB ID : 055-999-334

Report Date : 12/18/97

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
770380-001	GP-1 (8')	12/11/97			
770380-002	GP-1 (14')	12/11/97			

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

Thomas P. J. [Signature]  
Approval Signature

12-18-97  
Date



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## - Analytical Report -

Project Name : COD LESTER PARK GOLF COURSE

Project Number :

Client : REMEDIATION SERVICES INC

Field ID : GP-1 (8')

Report Date : 12/18/97

Lab Sample Number : 770380-001

Collection Date : 12/11/97

MDH LAB ID : 055-999-334

Matrix Type : SOIL

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Solids, percent	82.3		%		12/16/97	SM2540G	SM2540G

### Organic Results

Preservation Date: 12/12/97

#### BTEX - METHANOL PRESERVED SOIL

Prep Method: SW846 5030 Prep Date: 12/16/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	104	—	%Recov		12/16/97	SW846 8020
Benzene	< 25	25	ug/kg		12/16/97	SW846 8020
Ethylbenzene	< 25	25	ug/kg		12/16/97	SW846 8020
Toluene	< 25	25	ug/kg		12/16/97	SW846 8020
Xylenes, -m, -p	< 25	25	ug/kg		12/16/97	SW846 8020
Xylene, -o	< 25	25	ug/kg		12/16/97	SW846 8020

### Organic Results

Preservation Date: 12/16/97

#### DIESEL RANGE ORGANICS - SOIL

Prep Method: Wi Mod DRO Prep Date: 12/16/97 Analyst: KIG

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
DIESEL RANGE ORGANICS	< 4.5	4.5	mg/kg		12/17/97	WI Mod DRO
Blank spike	109	—	%Recov		12/17/97	WI Mod DRO
Blank spike duplicate	105	—	%Recov		12/17/97	WI Mod DRO
DRO blank	< 4.0	4.0	mg/kg		12/17/97	WI Mod DRO

### Organic Results

Preservation Date: 12/12/97

#### GASOLINE RANGE ORGANICS - SOIL/METHANOL

Prep Method: Wi Mod GRO Prep Date: 12/16/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
Gasoline Range Organics	< 3.0	3.0	mg/kg		12/16/97	WI Mod GRO

All soil results are reported on a dry weight basis unless otherwise noted.

PCA04-1474



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**- Analytical Report -**

**Project Name :** COD LESTER PARK GOLF COURSE

**Project Number :**

**Client :** REMEDIATION SERVICES INC

**Field ID :** GP-1 (8')

**Report Date :** 12/18/97

**Lab Sample Number :** 770380-001

**Collection Date :** 12/11/97

**MDH LAB ID :** 055-999-334

**Matrix Type :** SOIL

Blank Spike	120	—	%Recov	12/16/97	WI Mod GRO
Blank Spike Duplicate	112	—	%Recov	12/16/97	WI Mod GRO
GRO blank	< 2.5	2.5	mg/kg	12/16/97	WI Mod GRO

All soil results are reported on a dry weight basis unless otherwise noted.

PCA04-1475



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## - Analytical Report -

Project Name : COD LESTER PARK GOLF COURSE

Project Number :

Client : REMEDIATION SERVICES INC

Field ID : GP-1 (14')

Report Date : 12/18/97

Lab Sample Number : 770380-002

Collection Date : 12/11/97

MDH LAB ID : 055-999-334

Matrix Type : SOIL

### Inorganic Results

Test	Result	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method
Solids, percent	61.6		%		12/16/97	SM2540G	SM2540G

### Organic Results

Preservation Date: 12/12/97

BTEX - METHANOL PRESERVED SOIL

Prep Method: SW846 5030 Prep Date: 12/16/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
a,a,a-Trifluorotoluene	107	---	%Recov		12/16/97	SW846 8020
Benzene	< 25	25	ug/kg		12/16/97	SW846 8020
Ethylbenzene	< 25	25	ug/kg		12/16/97	SW846 8020
Toluene	< 25	25	ug/kg		12/16/97	SW846 8020
Xylenes, -m, -p	< 25	25	ug/kg		12/16/97	SW846 8020
Xylene, -o	< 25	25	ug/kg		12/16/97	SW846 8020

### Organic Results

Preservation Date: 12/16/97

DIESEL RANGE ORGANICS - SOIL

Prep Method: Wi Mod DRO Prep Date: 12/16/97 Analyst: KIG

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
DIESEL RANGE ORGANICS	< 6.3	6.3	mg/kg		12/17/97	WI Mod DRO
Blank spike	109	---	%Recov		12/17/97	WI Mod DRO
Blank spike duplicate	105	---	%Recov		12/17/97	WI Mod DRO
DRO blank	< 4.0	4.0	mg/kg		12/17/97	WI Mod DRO

### Organic Results

Preservation Date: 12/12/97

GASOLINE RANGE ORGANICS - SOIL/METHANOL

Prep Method: Wi Mod GRO Prep Date: 12/16/97 Analyst: MDC

Analyte	Result	EQL	Units	Code	Analysis Date	Analysis Method
Gasoline Range Organics	< 4.1	4.1	mg/kg		12/16/97	WI Mod GRO

All soil results are reported on a dry weight basis unless otherwise noted.

PCA04-1476



**Superior Laboratory**  
1423 N. 8th Street, Suite 122  
Superior, WI 54880  
715-392-5844 • Fax: 715-392-5843  
1-800-837-8238



**Corporate Office & Laboratory**  
1795 Industrial Drive  
Green Bay, WI 54302  
920-469-2436 • Fax: 920-469-8827  
1-800-7-ENCHEM

**- Analytical Report -**

**Project Name : COD LESTER PARK GOLF COURSE**

**Project Number :**

**Client : REMEDIATION SERVICES INC**

**Field ID : GP-1 (14')**

**Report Date : 12/18/97**

**Lab Sample Number : 770380-002**

**Collection Date : 12/11/97**

**MDH LAB ID : 055-999-334**

**Matrix Type : SOIL**

Blank Spike	120	---	%Recov	12/16/97	WI Mod GRO
Blank Spike Duplicate	112	---	%Recov	12/16/97	WI Mod GRO
GRO blank	< 2.5	2.5	mg/kg	12/16/97	WI Mod GRO

All soil results are reported on a dry weight basis unless otherwise noted.

PCA04-1477



Company Name: **RSE**  
 Branch or Location: **Duluth, MN**  
 Project Contact: **Earl Fashbaugh**  
 Telephone: **218-722-6073**  
 Project Number:  
 Project Name: **C.O.D. Lester Park Golf Course (LPGE)**  
 Project Location: **Duluth, MN**  
 Sampled By (Print): **Gary A. Johnson**  
 Regulatory Program (circle): **UST** RCRA CLP SDWA  
 NPDES/WPDES CAA NR Other



**EN CHEM**  
INC.

# CHAIN OF CUSTODY

☐ 1241 Bellevue St., Suite 9  
Green Bay, WI 54302  
414-469-2436 • 1-800-736-2436  
FAX 414-469-8827

☐ 2231 Catlin Ave., Suite 420  
Superior, WI 54880  
715-392-5844 • 1-800-837-8238  
FAX 715-392-5843

☐ 802 Deming Way  
Madison, WI 53717  
608-827-5501 • 1-888-5 ENCHEM  
Fax: 608-827-5503

NR720 Confirmation Analysis Required?  
 (En Chem will confirm unless otherwise instructed.)

P.O. # \_\_\_\_\_ of \_\_\_\_\_  
 Mail Report To:  
 Company: **RSE**  
 Address: **102 S. 29th Ave W, Suite 100**  
**Duluth, MN 55806**  
 Invoice To:  
 Company: **RSE**  
 Address:  
 Mail Invoice To: **RSE**

Field ID	Sample Description	Collection		Field Screen	Matrix	Filt'd Y/N	Preserv	Analysis Requested	SHADED AREA FOR LABORATORY USE ONLY			
		Date	Time						Good Cond.	Total Bottles	Comments	Laboratory Number
MW-1		12/1/96	2:55 pm		H <sub>2</sub> O		B	DRO/GRO/BTEX/MTBE	✓	3-40 ml		504041
MW-2			3:40 pm					" / " / " / "	✓			504042
MW-3			1:45 pm					" / " / " / "	✓			504043
MW-4			3:35 pm					" / " / " / "	✓			504044
MW-5			3:25 pm					" / " / " / "	✓			504045
MW-5 Duplicate			3:25 pm					BTEX/MTBE	✓	3-40 ml		504046
Tri-p		12/1/96	—		H <sub>2</sub> O		B	GRO/BTEX/MTBE	✓	2-40 ml		504047

Preservation Code:  
 A=None B=HCL C=H<sub>2</sub>SO<sub>4</sub>  
 D=HN03 E=EnCore F=Methanol  
 G=NaOH O=Other (Indicate)  
 If not using En Chem's methanol, indicate volume of methanol added and mark the appropriate samples.

Relinquished By: *[Signature]*  
 Date/Time: 12/10/96  
 Relinquished By: *[Signature]*  
 Date/Time: 12-10-96  
 Relinquished By: *[Signature]*  
 Date/Time:

Received By: *[Signature]*  
 Date/Time: 12-10-96  
 Received By: *[Signature]*  
 Date/Time:

Received By: *[Signature]*  
 Date/Time: 12-10-96  
 Received By (En Chem): *[Signature]*  
 Date/Time:

En Chem Project No: **1291-013**  
 Sample Receipt Temp: **19°C**  
 (Must be rec'd at 4°C)

PCA04-1478





... chemistry for the environment

Superior Laboratory  
2231 Catlin Ave., Suite 420  
Superior, WI 54880  
715-392-5844  
1-800-837-8238  
Fax: 715-392-5843

Lab Certification No. 816079330  
Location : C.O.D. LESTER PARK GOLF COURSE  
En Chem Proj# : 1296013  
Date Reported : 12/16/1996

Report to: REMEDIATION SERVICES INC

Thank you for using En Chem! Samples were analyzed according to strict EPA or Wisconsin DNR methodology. Any comments or problems associated with the receipt of or analysis are reported below:

Sample No. 504041, 504043, 504044 and 504045: Later eluting peaks outside DRO window.

Sample No. 504042: Front peaks outside of DRO window, indicating lighter fuels are present. Later eluting peaks outside DRO window. Mainly diesel range peaks present. Complex chromatogram for BTEX/MTBE analysis indicating the presence of hydrocarbons. Chromatogram has a typical gasoline pattern. Some peaks were outside of GRO window.

PCA04-1479





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2231 Catlin Ave., Suite 420  
Superior, WI 54880  
715-392-5844  
1-800-837-8238  
Fax: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PARK GOLF COURSE  
Your Sample ID:  
Sample Desc. : MW-1  
Sample Matrix : WATER Date Collected: 12/09/1996  
En Chem Proj#: 1296013 Date Received : 12/10/1996  
En Chem Lab # : 504041 Date Reported : 12/16/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analysed By
MTBE-W	Methyl-tert-butyl Ether	ND	ug/l	1.0	SW846 5030	12/11/1996	SW846 8020	12/11/1996	MDC
GRO	Gasoline Range Organics(GRO)-Water	ND	ug/l	50		12/11/1996	WDNR MOD GRO	12/11/1996	MDC
	Blank spike	104 % RECOV		50					
	Blank spike duplicate	101 % RECOV		50					
DRO	Diesel Range Organics(DRO)-Water	ND	ug/l	100		12/12/1996	WDNR MOD DRO	12/12/1996	DLP
	Blank spike	99 % RECOV		50					
	Blank spike duplicate	102 % RECOV		50					
BTEX-W	Benzene	ND	ug/l	0.6	SW846 5030	12/11/1996	SW846 8020	12/11/1996	MDC
	Ethyl Benzene	ND	ug/l	1.0					
	Toluene	ND	ug/l	1.0					
	Xylenes, m + p	ND	ug/l	1.0					
	Xylene, o	ND	ug/l	1.0					
	a,a,a-Trifluorotoluene (SS)	103 % recov		1					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

Corporate Office & Laboratory

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PCA04-1480





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Superior Laboratory  
2231 Catlin Ave., Suite 420  
Superior, WI 54880  
715-392-5844  
1-800-837-8238  
Fax: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PARK GOLF COURSE  
Your Sample ID:  
Sample Desc. : MW-2  
Sample Matrix : WATER  
En Chem Proj# : 1296013  
En Chem Lab # : 504042  
Date Collected: 12/09/1996  
Date Received : 12/10/1996  
Date Reported : 12/16/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyzed By
M-E-W	Methyl-tert-butyl Ether	ND	ug/l	4.0	SW846 5030	12/12/1996	SW846 8020	12/12/1996	MDC
GRO	Gasoline Range Organics(GRO)-Water	3700	ug/l	200		12/12/1996	WDNR MOD GRO	12/12/1996	MDC
	Blank spike	104 % RECOV		50					
	Blank spike duplicate	101 % RECOV		50					
DRO	Diesel Range Organics(DRO)-Water	530	ug/l	100		12/12/1996	WDNR MOD DRO	12/12/1996	DLP
	Blank spike	99 % RECOV		50					
	Blank spike duplicate	102 % RECOV		50					
BTEX-W	Benzene	210	ug/l	2.4	SW846 5030	12/12/1996	SW846 8020	12/12/1996	MDC
	Ethyl Benzene	37	ug/l	4.0					
	Toluene	8.7	ug/l	4.0					
	Xylenes, m + p	24	ug/l	4.0					
	Xylene, o	9.4	ug/l	4.0					
	a,a,a-Trifluorotoluene (SS)	109 % recov		1					

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These results have been reviewed and their authenticity verified by:

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PCA04-1481





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2231 Catlin Ave., Suite 420  
Superior, WI 54880  
715-392-5844  
1-800-837-8238  
Fax: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PARK GOLF COURSE  
Your Sample ID:  
Sample Desc. : MW-3  
Sample Matrix : WATER  
En Chem Proj# : 1296013  
En Chem Lab # : 504043  
Date Collected: 12/09/1996  
Date Received : 12/10/1996  
Date Reported : 12/16/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Anal ed By
MTBE-W	Methyl-tert-butyl Ether	ND	ug/l	1.0	SW846 5030	12/11/1996	SW846 8020	12/11/1996	M
GRO	Gasoline Range Organics(GRO)-Water	ND	ug/l	50		12/11/1996	WDNR MOD GRO	12/11/1996	MDC
	Blank spike	104	% RECOV	50					
	Blank spike duplicate	101	% RECOV	50					
DRO	Diesel Range Organics(DRO)-Water	ND	ug/l	100		12/12/1996	WDNR MOD DRO	12/13/1996	DLP
	Blank spike	99	% RECOV	50					
	Blank spike duplicate	102	% RECOV	50					
BTEX-W	Benzene	ND	ug/l	0.6	SW846 5030	12/11/1996	SW846 8020	12/11/1996	M
	Ethyl Benzene	ND	ug/l	1.0					
	Toluene	ND	ug/l	1.0					
	Xylenes, m + p	ND	ug/l	1.0					
	Xylene, o	ND	ug/l	1.0					
	a,a,a-Trifluorotoluene (SS)	105	% recov	1					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

PCA04-1482

Corporate Office & Laboratory

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Superior, WI 54880  
715-392-5844  
1-800-837-8238  
Fax: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PARK GOLF COURSE  
Your Sample ID:  
Sample Desc. : MW-4  
Sample Matrix : WATER  
En Chem Proj# : 1296013  
En Chem Lab # : 504044  
Date Collected: 12/09/1996  
Date Received : 12/10/1996  
Date Reported : 12/16/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyzed By
M-E-W	Methyl-tert-butyl Ether	ND	ug/l	1.0	SW846 5030	12/11/1996	SW846 8020	12/11/1996	MDC
GRO	Gasoline Range Organics(GRO)-Water	ND	ug/l	50		12/11/1996	WDNR MOD GRO	12/11/1996	MDC
	Blank spike	104 % RECOV		50					
	Blank spike duplicate	101 % RECOV		50					
DRO	Diesel Range Organics(DRO)-Water	ND	ug/l	100		12/12/1996	WDNR MOD DRO	12/12/1996	DLP
	Blank spike	99 % RECOV		50					
	Blank spike duplicate	102 % RECOV		50					
B-X-W	Benzene	ND	ug/l	0.6	SW846 5030	12/11/1996	SW846 8020	12/11/1996	MDC
	Ethyl Benzene	ND	ug/l	1.0					
	Toluene	ND	ug/l	1.0					
	Xylenes, m + p	ND	ug/l	1.0					
	Xylene, o	ND	ug/l	1.0					
	a,a,a-Trifluorotoluene (SS)	104 % recov		1					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

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PCA04-1483





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Superior, WI 54880  
715-392-5844  
1-800-837-8238  
Fax: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PARK GOLF COURSE  
Your Sample ID:  
Sample Desc. : MW-5  
Sample Matrix : WATER Date Collected: 12/09/1996  
En Chem Proj# : 1296013 Date Received : 12/10/1996  
En Chem Lab # : 504045 Date Reported : 12/16/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Anal ed
MTBE-W	Methyl-tert-butyl Ether	ND	ug/l	1.0	SW846 5030	12/11/1996	SW846 8020	12/11/1996	MDC
GRO	Gasoline Range Organics(GRO)-Water	ND	ug/l	50		12/11/1996	WDNR MOD GRO	12/11/1996	MDC
	Blank spike	104 % RECOV		50					
	Blank spike duplicate	101 % RECOV		50					
DRO	Diesel Range Organics(DRO)-Water	ND	ug/l	100		12/12/1996	WDNR MOD DRO	12/12/1996	DLP
	Blank spike	99 % RECOV		50					
	Blank spike duplicate	102 % RECOV		50					
BTEX-W	Benzene	ND	ug/l	0.6	SW846 5030	12/11/1996	SW846 8020	12/11/1996	MDC
	Ethyl Benzene	ND	ug/l	1.0					
	Toluene	ND	ug/l	1.0					
	Xylenes, m + p	ND	ug/l	1.0					
	Xylene, o	ND	ug/l	1.0					
	a,a,a-Trifluorotoluene (SS)	104 % recov		1					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

PCA04-1484





... chemistry for the environment

Superior Laboratory  
2231 Catlin Ave., Suite 420  
Superior, WI 54880  
715-392-5844  
1-800-837-8238  
Fax: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PARK GOLF COURSE  
Your Sample ID:  
Sample Desc. : MW-5 DUPLICATE  
Sample Matrix : WATER Date Collected: 12/09/1996  
En Chem Proj# : 1296013 Date Received : 12/10/1996  
En Chem Lab # : 504046 Date Reported : 12/12/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyzed By
MSE-W	Methyl-tert-butyl Ether	ND	ug/l	1.0	SW846 5030	12/11/1996	SW846 8020	12/11/1996	MDC
BTEX-W	Benzene	ND	ug/l	0.6	SW846 5030	12/11/1996	SW846 8020	12/11/1996	MDC
	Ethyl Benzene	ND	ug/l	1.0					
	Toluene	ND	ug/l	1.0					
	Xylenes, m + p	ND	ug/l	1.0					
	Xylene, o	ND	ug/l	1.0					
	a,a,a-Trifluorotoluene (SS)	103 % recov		1					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

Corporate Office & Laboratory

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PCA04-1485





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Superior Laboratory  
2231 Catlin Ave., Suite 420  
Superior, WI 54880  
715-392-5844  
1-800-837-8238  
Fax: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PARK GOLF COURSE  
Your Sample ID:  
Sample Desc. : TRIP BLANK  
Sample Matrix : WATER Date Collected: 12/09/1996  
En Chem Proj# : 1296013 Date Received : 12/10/1996  
En Chem Lab # : 504047 Date Reported : 12/12/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Anal
MTBE-W	Methyl-tert-butyl Ether	ND	ug/l	1.0	SW846 5030	12/11/1996	SW846 8020	12/11/1996	M
GRO	Gasoline Range Organics(GRO)-Water	ND	ug/l	50		12/11/1996	WDNR MOD GRO	12/11/1996	MDC
	Blank spike	104 % RECOV		50					
	Blank spike duplicate	101 % RECOV		50					
BTEX-W	Benzene	ND	ug/l	0.6	SW846 5030	12/11/1996	SW846 8020	12/11/1996	MDC
	Ethyl Benzene	ND	ug/l	1.0					
	Toluene	ND	ug/l	1.0					
	Xylenes, m + p	ND	ug/l	1.0					
	Xylene, o	ND	ug/l	1.0					
	a,a,a-Trifluorotoluene (SS)	105 % recov		1					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:









*...chemistry for the environment*

Duluth/Superior Laboratory  
2231 Catlin Avenue, Suite 420  
Superior, WI 54880  
715-392-5844  
800-837-8238  
FAX: 715-392-5843

Lab Certification No. 816079330  
Location : C.O.D. LESTER PARK GULF COURSE  
En Chem Proj# : 0596011  
Date Reported : 05/14/1996

Report to: REMEDIATION SERVICES INC

Thank you for using En Chem! Samples were analyzed according to strict EPA or Wisconsin DNR methodology. Any comments or problems associated with the receipt of or analysis are reported below:

Sample No. 500821: Complex chromatogram for BTEX analysis indicating the presence of fuel. Chromatogram has a typical gasoline pattern. Some peaks were outside of GRO window. Front peaks outside of DRO window, indicating lighter fuels are present.





...chemistry for the environment

Duluth/Superior Laboratory  
2231 Catlin Avenue, Suite 420  
Superior, WI 54880  
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800-837-8238  
FAX: 715-392-5843

Lab Certification No. 816079330  
Location : C.O.D. LESTER PARK GULF COURSE  
Your Sample ID:  
Sample Desc. : MW-1  
Sample Matrix : WATER  
En Chem Proj# : 0596011  
En Chem Lab # : 500820  
Date Collected: 05/03/1996  
Date Received : 05/06/1996  
Date Reported : 05/14/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analysis Analyzed By
	Gasoline Range Organics(GRO)-Water	ND	ug/l	50		05/07/1996	WDNR MOD GRO	05/07/1996	mdc
	Blank spike	97 % RECOV		50					
	Blank spike duplicate	100 % RECOV		50					
	Diesel Range Organics(DRO)-Water	ND	ug/l	100		05/08/1996	WDNR MOD DRO	05/09/1996	DLP
	Blank spike	91 % RECOV		50					
	Blank spike duplicate	86 % RECOV		50					
BTEX-W	Benzene	ND	ug/l	0.6	SW846 5030	05/07/1996	SW846 8020	05/07/1996	mdc
	Ethyl Benzene	ND	ug/l	1.0					
	Toluene	ND	ug/l	1.0					
	Xylenes, m + p	ND	ug/l	1.0					
	Xylene, o	ND	ug/l	1.0					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

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PCA04-1489







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Duluth/Superior Laboratory  
2231 Catlin Avenue, Suite 420  
Superior, WI 54880  
715-392-5844  
800-837-8238  
FAX: 715-392-5843

Lab Certification No. 816079330  
Location : C.O.D. LESTER PARK GULF COURSE  
Your Sample ID:  
Sample Desc. : MW-2  
Sample Matrix : WATER  
En Chem Proj# : 0596011  
En Chem Lab # : 500821  
Date Collected: 05/03/1996  
Date Received : 05/06/1996  
Date Reported : 05/14/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Anal ed B
GRO	Gasoline Range Organics(GRO)-Water	5700	ug/l	250		05/08/1996	WDNR MOD GRO	05/08/1996	m
	Blank spike	97 % RECOV		50					
	Blank spike duplicate	100 % RECOV		50					
DRO	Diesel Range Organics(DRO)-Water	460	ug/l	100		05/08/1996	WDNR MOD DRO	05/09/1996	D
	Blank spike	91 % RECOV		50					
	Blank spike duplicate	86 % RECOV		50					
BTEX-W	Benzene	220	ug/l	0.6	SW846 5030	05/07/1996	SW846 8020	05/07/1996	m
	Ethyl Benzene	88	ug/l	1.0					
	Toluene	44	ug/l	1.0					
	Xylenes, m + p	66	ug/l	1.0					
	Xylene, o	25	ug/l	1.0					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

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PCA04-1490





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Duluth/Superior Laboratory  
2231 Catlin Avenue, Suite 420  
Superior, WI 54880  
715-392-5844  
800-837-8238  
FAX: 715-392-5843

Lab Certification No. 816079330  
Location : C.O.D. LESTER PARK GULF COURSE  
Your Sample ID:  
Sample Desc. : MW-3  
Sample Matrix : WATER  
En Chem Proj# : 0596011  
En Chem Lab # : 500822  
Date Collected: 05/03/1996  
Date Received : 05/06/1996  
Date Reported : 05/14/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyzed By
C	Gasoline Range Organics(GRO)-Water	ND	ug/l	50		05/07/1996	WDNR MOD GRO	05/07/1996	mdc
	Blank spike	97 % RECOV		50					
	Blank spike duplicate	100 % RECOV		50					
D	Diesel Range Organics(DRO)-Water	ND	ug/l	100		05/08/1996	WDNR MOD DRO	05/09/1996	DLP
	Blank spike	91 % RECOV		50					
	Blank spike duplicate	86 % RECOV		50					
E-W	Benzene	ND	ug/l	0.6	SW846 5030	05/07/1996	SW846 8020	05/07/1996	mdc
	Ethyl Benzene	ND	ug/l	1.0					
	Toluene	ND	ug/l	1.0					
	Xylenes, m + p	ND	ug/l	1.0					
	Xylene, o	ND	ug/l	1.0					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

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Lab Certification No. 405132750  
Location : C.O.D. LESTER PARK GULF COURSE  
Your Sample ID:  
Sample Desc. : MW-4  
Sample Matrix : WATER  
En Chem Proj# : 0596011  
En Chem Lab # : 500823  
Date Collected: 05/03/1996  
Date Received : 05/06/1996  
Date Reported : 05/16/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
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DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Anal
GRO	Gasoline Range Organics(GRO)-Water	ND	ug/l	50		05/07/1996	WDNR MOD GRO	05/07/1996	m
	Blank spike	97 % RECOV		50					
	Blank spike duplicate	100 % RECOV		50					
DRO	Diesel Range Organics(DRO)-Water	ND	ug/l	100		05/08/1996	WDNR MOD DRO	05/09/1996	D
	Blank spike	91 % RECOV		50					
	Blank spike duplicate	86 % RECOV		50					
465	Acetone	ND	ug/l	25	SW846 5030	05/08/1996	MN-465E	05/08/1996	*
	Allyl chloride	ND	ug/l	10					
	Benzene	ND	ug/l	1.0					
	Bromobenzene	ND	ug/l	1.0					
	Bromochloromethane	ND	ug/l	1.0					
	Bromodichloromethane	ND	ug/l	1.0					
	Bromoform	ND	ug/l	1.0					
	Bromomethane	ND	ug/l	1.0					
	2-Butanone	ND	ug/l	25					
	n-Butylbenzene	ND	ug/l	1.0					
	sec-Butylbenzene	ND	ug/l	1.0					
	tert-Butylbenzene	ND	ug/l	1.0					
	Carbon tetrachloride	ND	ug/l	1.0					
	Chlorobenzene	ND	ug/l	1.0					
	Chlorodibromomethane	ND	ug/l	1.0					
	Chloroethane	ND	ug/l	1.0					
	Chloroform	ND	ug/l	1.0					
	Chloromethane	ND	ug/l	1.0					
	2-Chlorotoluene	ND	ug/l	1.0					
	4-Chlorotoluene	ND	ug/l	1.0					
	1,2-Dibromo-3-chloropropane	ND	ug/l	1.0					
	1,2-Dibromoethane	ND	ug/l	1.0					

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Lab Certification No. 405132750  
Location : C.O.D. LESTER PARK GULF COURSE  
Your Sample ID:  
Sample Desc. : MW-4  
Sample Matrix : WATER  
En Chem Proj# : 0596011  
En Chem Lab # : 500823  
Date Collected: 05/03/1996  
Date Received : 05/06/1996  
Date Reported : 05/16/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

A	ysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyzed By
4		Dibromomethane	ND	ug/l	1.0	SW846 5030	05/08/1996	MN-465E	05/08/1996	*EGB
		1,2-Dichlorobenzene	ND	ug/l	1.0					
		1,3-Dichlorobenzene	ND	ug/l	1.0					
		1,4-Dichlorobenzene	ND	ug/l	1.0					
		Dichlorodifluoromethane	ND	ug/l	1.0					
		1,1-Dichloroethane	ND	ug/l	1.0					
		1,2-Dichloroethane	ND	ug/l	1.0					
		1,1-Dichloroethene	ND	ug/l	1.0					
		cis-1,2-Dichloroethene	ND	ug/l	1.0					
		trans-1,2-Dichloroethene	ND	ug/l	1.0					
		Dichlorofluoromethane	ND	ug/l	1.0					
		1,2-Dichloropropane	ND	ug/l	1.0					
		1,3-Dichloropropane	ND	ug/l	1.0					
		2,2-Dichloropropane	ND	ug/l	1.0					
		1,1-Dichloropropene	ND	ug/l	1.0					
		cis-1,3-Dichloropropene	ND	ug/l	1.0					
		trans-1,3-Dichloropropene	ND	ug/l	1.0					
		Ethyl Benzene	ND	ug/l	1.0					
		Ethyl Ether	ND	ug/l	5.0					
		Hexachlorobutadiene	ND	ug/l	1.0					
		Isopropylbenzene	ND	ug/l	1.0					
		p-Isopropyltoluene	ND	ug/l	1.0					
		4-Methyl-2-pentanone	ND	ug/l	25					
		Methyl-tert-butyl-ether	ND	ug/l	1.0					
		Methylene chloride	ND	ug/l	1.0					
		Naphthalene	ND	ug/l	1.0					
		n-Propylbenzene	ND	ug/l	1.0					
		Styrene	ND	ug/l	1.0					
		1,1,1,2-Tetrachloroethane	ND	ug/l	1.0					
		1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					

PCA04-1493

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800-837-8238  
FAX: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PARK GULF COURSE  
Your Sample ID:  
Sample Desc. : MW-4  
Sample Matrix : WATER  
En Chem Proj# : 0596011  
En Chem Lab # : 500823  
Date Collected: 05/03/1996  
Date Received : 05/06/1996  
Date Reported : 05/16/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analysed By
465	Tetrachloroethene	ND	ug/l	1.0	SW846 5030	05/08/1996	MN-465E	05/08/1996	*ECS
	Tetrahydrofuran	ND	ug/l	25					
	Toluene	ND	ug/l	1.0					
	1,2,3-Trichlorobenzene	ND	ug/l	1.0					
	1,2,4-Trichlorobenzene	ND	ug/l	1.0					
	1,1,1-Trichloroethane	ND	ug/l	1.0					
	1,1,2-Trichloroethane	ND	ug/l	1.0					
	Trichloroethene	ND	ug/l	1.0					
	Trichlorofluoromethane	ND	ug/l	1.0					
	1,2,3-Trichloropropane	ND	ug/l	1.0					
	Trichlorotrifluoroethane	ND	ug/l	1.0					
	1,2,4-Trimethylbenzene	ND	ug/l	1.0					
	1,3,5-Trimethylbenzene	ND	ug/l	1.0					
	Vinyl chloride	ND	ug/l	1.0					
	Xylene, o	ND	ug/l	1.0					
	Xylenes, m + p	ND	ug/l	1.0					
	Dibromofluoromethane(SS)	97 %Recov		0.5					
	Toluene-d8(SS)	106 %Recov		0.5					
	4-Bromofluorobenzene(SS)	84 %Recov		0.5					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

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FAX: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PARK GULF COURSE  
Your Sample ID:  
Sample Desc. : MW-5  
Sample Matrix : WATER  
En Chem Proj# : 0596011  
En Chem Lab # : 500824  
Date Collected: 05/03/1996  
Date Received : 05/06/1996  
Date Reported : 05/16/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analysis By
Q10	Gasoline Range Organics(GRO)-Water	ND	ug/l	50		05/07/1996	WDNR MOD GRO	05/07/1996	mdc
	Blank spike	97 % RECOV		50					
	Blank spike duplicate	100 % RECOV		50					
Q10	Diesel Range Organics(DRO)-Water	ND	ug/l	100		05/08/1996	WDNR MOD DRO	05/09/1996	DLP
	Blank spike	91 % RECOV		50					
	Blank spike duplicate	86 % RECOV		50					
465	Acetone	ND	ug/l	25	SW846 5030	05/08/1996	MN-465E	05/08/1996	*EGB
	Allyl chloride	ND	ug/l	10					
	Benzene	ND	ug/l	1.0					
	Bromobenzene	ND	ug/l	1.0					
	Bromochloromethane	ND	ug/l	1.0					
	Bromodichloromethane	ND	ug/l	1.0					
	Bromoform	ND	ug/l	1.0					
	Bromomethane	ND	ug/l	1.0					
	2-Butanone	ND	ug/l	25					
	n-Butylbenzene	ND	ug/l	1.0					
	sec-Butylbenzene	ND	ug/l	1.0					
	tert-Butylbenzene	ND	ug/l	1.0					
	Carbon tetrachloride	ND	ug/l	1.0					
	Chlorobenzene	ND	ug/l	1.0					
	Chlorodibromomethane	ND	ug/l	1.0					
	Chloroethane	ND	ug/l	1.0					
	Chloroform	ND	ug/l	1.0					
	Chloromethane	ND	ug/l	1.0					
	2-Chlorotoluene	ND	ug/l	1.0					
	4-Chlorotoluene	ND	ug/l	1.0					
	1,2-Dibromo-3-chloropropane	ND	ug/l	1.0					
	1,2-Dibromoethane	ND	ug/l	1.0					

PCA04-1495

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Superior, WI 54880  
715-392-5844  
800-837-8238  
FAX: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PARK GOLF COURSE  
Your Sample ID:  
Sample Desc. : MW-5  
Sample Matrix : WATER  
En Chem Proj# : 0596011  
En Chem Lab # : 500824  
Date Collected: 05/03/1996  
Date Received : 05/06/1996  
Date Reported : 05/16/1996

Report to: REMEDIATION SERVICES INC  
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102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analysed By
465	Dibromomethane	ND	ug/l	1.0	SW846 5030	05/08/1996	MN-465E	05/08/1996	*E
	1,2-Dichlorobenzene	ND	ug/l	1.0					
	1,3-Dichlorobenzene	ND	ug/l	1.0					
	1,4-Dichlorobenzene	ND	ug/l	1.0					
	Dichlorodifluoromethane	ND	ug/l	1.0					
	1,1-Dichloroethane	ND	ug/l	1.0					
	1,2-Dichloroethane	1.6	ug/l	1.0					
	1,1-Dichloroethene	ND	ug/l	1.0					
	cis-1,2-Dichloroethene	ND	ug/l	1.0					
	trans-1,2-Dichloroethene	ND	ug/l	1.0					
	Dichlorofluoromethane	ND	ug/l	1.0					
	1,2-Dichloropropane	ND	ug/l	1.0					
	1,3-Dichloropropane	ND	ug/l	1.0					
	2,2-Dichloropropane	ND	ug/l	1.0					
	1,1-Dichloropropene	ND	ug/l	1.0					
	cis-1,3-Dichloropropene	ND	ug/l	1.0					
	trans-1,3-Dichloropropene	ND	ug/l	1.0					
	Ethyl Benzene	ND	ug/l	1.0					
	Ethyl Ether	ND	ug/l	5.0					
	Hexachlorobutadiene	ND	ug/l	1.0					
	Isopropylbenzene	ND	ug/l	1.0					
	p-Isopropyltoluene	ND	ug/l	1.0					
	4-Methyl-2-pentanone	ND	ug/l	25					
	Methyl-tert-butyl-ether	ND	ug/l	1.0					
	Methylene chloride	ND	ug/l	1.0					
	Naphthalene	ND	ug/l	1.0					
	n-Propylbenzene	ND	ug/l	1.0					
	Styrene	ND	ug/l	1.0					
	1,1,1,2-Tetrachloroethane	ND	ug/l	1.0					
	1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					

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Superior, WI 54880  
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800-837-8238  
FAX: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PARK GULF COURSE  
Your Sample ID:  
Sample Desc. : MW-5  
Sample Matrix : WATER  
En Chem Proj# : 0596011  
En Chem Lab # : 500824  
Date Collected: 05/03/1996  
Date Received : 05/06/1996  
Date Reported : 05/16/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analized By
4	Tetrachloroethene	ND	ug/l	1.0	SW846 5030	05/08/1996	MN-465E	05/08/1996	*EGB
	Tetrahydrofuran	ND	ug/l	25					
	Toluene	ND	ug/l	1.0					
	1,2,3-Trichlorobenzene	ND	ug/l	1.0					
	1,2,4-Trichlorobenzene	ND	ug/l	1.0					
	1,1,1-Trichloroethane	ND	ug/l	1.0					
	1,1,2-Trichloroethane	ND	ug/l	1.0					
	Trichloroethene	ND	ug/l	1.0					
	Trichlorofluoromethane	ND	ug/l	1.0					
	1,2,3-Trichloropropane	ND	ug/l	1.0					
	Trichlorotrifluoroethane	ND	ug/l	1.0					
	1,2,4-Trimethylbenzene	ND	ug/l	1.0					
	1,3,5-Trimethylbenzene	ND	ug/l	1.0					
	Vinyl chloride	ND	ug/l	1.0					
	Xylene, o	ND	ug/l	1.0					
	Xylenes, m + p	ND	ug/l	1.0					
	Dibromofluoromethane(SS)	98 %Recov		0.5					
	Toluene-d8(SS)	107 %Recov		0.5					
	4-Bromofluorobenzene(SS)	84 %Recov		0.5					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

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*Dawn Peterson*

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Lab Certification No. 405132750  
Location : C.O.D. LESTER PARK GULF COURSE  
Your Sample ID:  
Sample Desc. : MW-5 DUPLICATE  
Sample Matrix : WATER Date Collected: 05/03/1996  
En Chem Proj# : 0596011 Date Received : 05/06/1996  
En Chem Lab # : 500825 Date Reported : 05/16/1996

Report to: REMEDIATION SERVICES INC  
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102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analysed By
465	Acetone	ND	ug/l	25	SW846 5030	05/08/1996	MN-465E	05/08/1996	*B
	Allyl chloride	ND	ug/l	10					
	Benzene	ND	ug/l	1.0					
	Bromobenzene	ND	ug/l	1.0					
	Bromochloromethane	ND	ug/l	1.0					
	Bromodichloromethane	ND	ug/l	1.0					
	Bromoform	ND	ug/l	1.0					
	Bromomethane	ND	ug/l	1.0					
	2-Butanone	ND	ug/l	25					
	n-Butylbenzene	ND	ug/l	1.0					
	sec-Butylbenzene	ND	ug/l	1.0					
	tert-Butylbenzene	ND	ug/l	1.0					
	Carbon tetrachloride	ND	ug/l	1.0					
	Chlorobenzene	ND	ug/l	1.0					
	Chlorodibromomethane	ND	ug/l	1.0					
	Chloroethane	ND	ug/l	1.0					
	Chloroform	ND	ug/l	1.0					
	Chloromethane	ND	ug/l	1.0					
	2-Chlorotoluene	ND	ug/l	1.0					
	4-Chlorotoluene	ND	ug/l	1.0					
	1,2-Dibromo-3-chloropropane	ND	ug/l	1.0					
	1,2-Dibromoethane	ND	ug/l	1.0					
	Dibromomethane	ND	ug/l	1.0					
	1,2-Dichlorobenzene	ND	ug/l	1.0					
	1,3-Dichlorobenzene	ND	ug/l	1.0					
	1,4-Dichlorobenzene	ND	ug/l	1.0					
	Dichlorodifluoromethane	ND	ug/l	1.0					
	1,1-Dichloroethane	ND	ug/l	1.0					
	1,2-Dichloroethane	1.6	ug/l	1.0					
	1,1-Dichloroethene	ND	ug/l	1.0					





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2231 Catlin Avenue, Suite 420  
Superior, WI 54880  
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800-837-8238  
FAX: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PARK GULF COURSE  
Your Sample ID:  
Sample Desc. : MW-5 DUPLICATE  
Sample Matrix : WATER Date Collected: 05/03/1996  
En Chem Proj#: 0596011 Date Received : 05/06/1996  
En Chem Lab # : 500825 Date Reported : 05/16/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analysis Analyzed By
4	cis-1,2-Dichloroethene	ND	ug/l	1.0	SW846 5030	05/08/1996	MN-465E	05/08/1996	*EGB
	trans-1,2-Dichloroethene	ND	ug/l	1.0					
	Dichlorofluoromethane	ND	ug/l	1.0					
	1,2-Dichloropropane	ND	ug/l	1.0					
	1,3-Dichloropropane	ND	ug/l	1.0					
	2,2-Dichloropropane	ND	ug/l	1.0					
	1,1-Dichloropropane	ND	ug/l	1.0					
	cis-1,3-Dichloropropene	ND	ug/l	1.0					
	trans-1,3-Dichloropropene	ND	ug/l	1.0					
	Ethyl Benzene	ND	ug/l	1.0					
	Ethyl Ether	ND	ug/l	5.0					
	Hexachlorobutadiene	ND	ug/l	1.0					
	Isopropylbenzene	ND	ug/l	1.0					
	p-Isopropyltoluene	ND	ug/l	1.0					
	4-Methyl-2-pentanone	ND	ug/l	25					
	Methyl-tert-butyl-ether	ND	ug/l	1.0					
	Methylene chloride	ND	ug/l	1.0					
	Naphthalene	ND	ug/l	1.0					
	n-Propylbenzene	ND	ug/l	1.0					
	Styrene	ND	ug/l	1.0					
	1,1,1,2-Tetrachloroethane	ND	ug/l	1.0					
	1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
	Tetrachloroethene	ND	ug/l	1.0					
	Tetrahydrofuran	ND	ug/l	25					
	Toluene	ND	ug/l	1.0					
	1,2,3-Trichlorobenzene	ND	ug/l	1.0					
	1,2,4-Trichlorobenzene	ND	ug/l	1.0					
	1,1,1-Trichloroethane	ND	ug/l	1.0					
	1,1,2-Trichloroethane	ND	ug/l	1.0					
	Trichloroethene	ND	ug/l	1.0					





...chemistry for the environment

Duluth/Superior Laboratory  
2231 Catlin Avenue, Suite 420  
Superior, WI 54880  
715-392-5844  
800-837-8238  
FAX: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PARK GULF COURSE  
Your Sample ID:  
Sample Desc. : MW-5 DUPLICATE  
Sample Matrix : WATER Date Collected: 05/03/1996  
En Chem Proj# : 0596011 Date Received : 05/06/1996  
En Chem Lab # : 500825 Date Reported : 05/16/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Anal
465	Trichlorofluoromethane	ND	ug/l	1.0	SW846 5030	05/08/1996	MN-465E	05/08/1996	*
	1,2,3-Trichloropropane	ND	ug/l	1.0					
	Trichlorotrifluoroethane	ND	ug/l	1.0					
	1,2,4-Trimethylbenzene	ND	ug/l	1.0					
	1,3,5-Trimethylbenzene	ND	ug/l	1.0					
	Vinyl chloride	ND	ug/l	1.0					
	Xylene, o	ND	ug/l	1.0					
	Xylenes, m + p	ND	ug/l	1.0					
	Dibromofluoromethane(SS)	98	%Recov	0.5					
	Toluene-d8(SS)	105	%Recov	0.5					
	4-Bromofluorobenzene(SS)	84	%Recov	0.5					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

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PCA04-1500





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2231 Catlin Avenue, Suite 420  
Superior, WI 54880  
715-392-5844  
800-837-8238  
FAX: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PARK GULF COURSE  
Your Sample ID: .  
Sample Desc. : TRIP BLANK  
Sample Matrix : WATER Date Collected: 05/03/1996  
En Chem Proj# : 0596011 Date Received : 05/06/1996  
En Chem Lab # : 500826 Date Reported : 05/16/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyzed By
6	Gasoline Range Organics(GRO)-Water	ND	ug/l	50		05/07/1996	WDNR MOD GRO	05/07/1996	mdc
	Blank spike	97 % RECOV		50					
	Blank spike duplicate	100 % RECOV		50					
4	Acetone	ND	ug/l	25	SW846 5030	05/08/1996	MN-465E	05/08/1996	*EGB
	Allyl chloride	ND	ug/l	10					
	Benzene	ND	ug/l	1.0					
	Bromobenzene	ND	ug/l	1.0					
	Bromochloromethane	ND	ug/l	1.0					
	Bromodichloromethane	ND	ug/l	1.0					
	Bromoform	ND	ug/l	1.0					
	Bromomethane	ND	ug/l	1.0					
	2-Butanone	ND	ug/l	25					
	n-Butylbenzene	ND	ug/l	1.0					
	sec-Butylbenzene	ND	ug/l	1.0					
	tert-Butylbenzene	ND	ug/l	1.0					
	Carbon tetrachloride	ND	ug/l	1.0					
	Chlorobenzene	ND	ug/l	1.0					
	Chlorodibromomethane	ND	ug/l	1.0					
	Chloroethane	ND	ug/l	1.0					
	Chloroform	ND	ug/l	1.0					
	Chloromethane	ND	ug/l	1.0					
	2-Chlorotoluene	ND	ug/l	1.0					
	4-Chlorotoluene	ND	ug/l	1.0					
	1,2-Dibromo-3-chloropropane	ND	ug/l	1.0					
	1,2-Dibromoethane	ND	ug/l	1.0					
	Dibromomethane	ND	ug/l	1.0					
	1,2-Dichlorobenzene	ND	ug/l	1.0					
	1,3-Dichlorobenzene	ND	ug/l	1.0					
	1,4-Dichlorobenzene	ND	ug/l	1.0					

PCA04-1501

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2231 Catlin Avenue, Suite 420  
Superior, WI 54880  
715-392-5844  
800-837-8238  
FAX: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PARK GULF COURSE  
Your Sample ID:  
Sample Desc. : TRIP BLANK  
Sample Matrix : WATER Date Collected: 05/03/1996  
En Chem Proj#: 0596011 Date Received : 05/06/1996  
En Chem Lab # : 500826 Date Reported : 05/16/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analysed By
465	Dichlorodifluoromethane	ND	ug/l	1.0	SW846 5030	05/08/1996	MN-465E	05/08/1996	* B
	1,1-Dichloroethane	ND	ug/l	1.0					
	1,2-Dichloroethane	ND	ug/l	1.0					
	1,1-Dichloroethene	ND	ug/l	1.0					
	cis-1,2-Dichloroethene	ND	ug/l	1.0					
	trans-1,2-Dichloroethene	ND	ug/l	1.0					
	Dichlorofluoromethane	ND	ug/l	1.0					
	1,2-Dichloropropane	ND	ug/l	1.0					
	1,3-Dichloropropane	ND	ug/l	1.0					
	2,2-Dichloropropane	ND	ug/l	1.0					
	1,1-Dichloropropene	ND	ug/l	1.0					
	cis-1,3-Dichloropropene	ND	ug/l	1.0					
	trans-1,3-Dichloropropene	ND	ug/l	1.0					
	Ethyl Benzene	ND	ug/l	1.0					
	Ethyl Ether	ND	ug/l	5.0					
	Hexachlorobutadiene	ND	ug/l	1.0					
	Isopropylbenzene	ND	ug/l	1.0					
	p-Isopropyltoluene	ND	ug/l	1.0					
	4-Methyl-2-pentanone	ND	ug/l	25					
	Methyl-tert-butyl-ether	ND	ug/l	1.0					
	Methylene chloride	ND	ug/l	1.0					
	Naphthalene	ND	ug/l	1.0					
	n-Propylbenzene	ND	ug/l	1.0					
	Styrene	ND	ug/l	1.0					
	1,1,1,2-Tetrachloroethane	ND	ug/l	1.0					
	1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
	Tetrachloroethene	ND	ug/l	1.0					
	Tetrahydrofuran	ND	ug/l	25					
	Toluene	ND	ug/l	1.0					
	1,2,3-Trichlorobenzene	ND	ug/l	1.0					

PCA04-1502

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2231 Catlin Avenue, Suite 420  
Superior, WI 54880  
715-392-5844  
800-837-8238  
FAX: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PARK GULF COURSE  
Your Sample ID:  
Sample Desc. : TRIP BLANK  
Sample Matrix : WATER Date Collected: 05/03/1996  
En Chem Proj# : 0596011 Date Received : 05/06/1996  
En Chem Lab # : 500826 Date Reported : 05/16/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analysis By
4	1,2,4-Trichlorobenzene	ND	ug/l	1.0	SW846 5030	05/08/1996	MN-465E	05/08/1996	*EGB
	1,1,1-Trichloroethane	ND	ug/l	1.0					
	1,1,2-Trichloroethane	ND	ug/l	1.0					
	Trichloroethene	ND	ug/l	1.0					
	Trichlorofluoromethane	ND	ug/l	1.0					
	1,2,3-Trichloropropane	ND	ug/l	1.0					
	Trichlorotrifluoroethane	ND	ug/l	1.0					
	1,2,4-Trimethylbenzene	ND	ug/l	1.0					
	1,3,5-Trimethylbenzene	ND	ug/l	1.0					
	Vinyl chloride	ND	ug/l	1.0					
	Xylene, o	ND	ug/l	1.0					
	Xylenes, m + p	ND	ug/l	1.0					
	Dibromofluoromethane(SS)	94 %Recov		0.5					
	Toluene-d8(SS)	105 %Recov		0.5					
	4-Bromofluorobenzene(SS)	85 %Recov		0.5					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

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PCA04-1503

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Mail Report To:	
Company:	RSI
Address:	
Invoice To:	
Company:	RSI
Address:	
P.O. No.:	Quote No. 2389

[illegible]

**PCA04-1504**

<b>*Preservation Code</b> A=None    B=HCL    C=H2SO4 D=HN03    E=EnCore    F=Methanol** G=NaOH    O=Other (Indicate)	Relinquished By: <i>[Signature]</i> Relinquished By: _____	Date/Time: 4-29-96 4:30 Date/Time: _____	Received By: <i>[Signature]</i> Received By: _____	En Chem Project No: 0496040 Sample Receipt Temp: 62°C (Must be rec'd at 4°C)
**If not using En Chem's methanol, indicate volume of methanol and the appropriate samples.	Relinquished By: <i>[Signature]</i> Relinquished By: _____	Date/Time: 4-29-96 1:50 PM Date/Time: _____	Received By (En Chem): <i>[Signature]</i> Received By (En Chem): _____	Sample Receipt Temp: 62°C (Must be rec'd at 4°C)





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Duluth/Superior Laboratory  
2231 Catlin Avenue, Suite 420  
Superior, WI 54880  
715-392-5844  
800-837-8238  
FAX: 715-392-5843

Lab Certification No. 816079330  
Location : LESTER PARK GULF COURSE/MN  
En Chem Proj# : 0496040  
Date Reported : 05/14/1996

Report to: REMEDIATION SERVICES INC

Thank you for using En Chem! Samples were analyzed according to strict EPA or Wisconsin DNR methodology. Any comments or problems associated with the receipt of or analysis are reported below:

Samples were received at a temperature of 6.2 degrees celcius. Recommended temperature of samples is between 0 and 4 degrees celcius. Samples were run at clients request.

The PQL for the BTEX analysis is 60 ug/kg for those samples with a dilution factor of 50. Detection limits are corrected for percent solids for those parameters that were detected.

Sample Nos. 500758 through 500760: Later eluting peaks outside DRO window.

PCA04-1505

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Superior, WI 54880  
715-392-5844  
800-837-8238  
FAX: 715-392-5843

Lab Certification No. 816079330  
Location : LESTER PARK GULF COURSE/MN  
Your Sample ID:  
Sample Desc. : SB-7 8-10  
Sample Matrix : SOIL  
En Chem Proj# : 0496040  
En Chem Lab # : 500758  
Date Collected: 04/29/1996  
Date Received : 04/29/1996  
Date Reported : 05/14/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyst
TOTSOLID	Total Solids	89 percent		0.0			EPA 160.3	04/30/1996	C
PB-S	Lead, soil	7.2 mg/kg		3.7	SW846 3050	05/03/1996	SW846 7421	05/03/1996	*EGB
GRO-S	Gasoline Range Organics(GRO)-Soil	ND	mg/kg	2.8		05/01/1996	WDNR MOD GRO	05/01/1996	m
	Soil spike	108 % RECOV		50					
	Soil spike duplicate	118 % RECOV		50					
DRO-S	Diesel Range Organics(DRO)-Soil	ND	mg/kg	4.2		04/30/1996	WDNR MOD DRO	05/01/1996	DEP
	Soil spike	75 % RECOV		50					
	Soil spike duplicate	74 % RECOV		50					
BTEX-S-ME	Benzene	ND	ug/kg	25		05/01/1996	WDNR MOD GRO	05/01/1996	mdc
	Ethyl Benzene	ND	ug/kg	25					
	Toluene	ND	ug/kg	25					
	Xylenes, m + p	32 ug/kg		28					
	Xylene, o	ND	ug/kg	25					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

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*Jay Johnson*

PCA04-1506







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Duluth/Superior Laboratory  
2231 Catlin Avenue, Suite 420  
Superior, WI 54880  
715-392-5844  
800-837-8238  
FAX: 715-392-5843

Lab Certification No. 816079330  
Location : LESTER PARK GULF COURSE/MN  
Your Sample ID:  
Sample Desc. : SB-7 15-17  
Sample Matrix : SOIL Date Collected: 04/29/1996  
En Chem Proj# : 0496040 Date Received : 04/29/1996  
En Chem Lab # : 500759 Date Reported : 05/14/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyzed By
T-SOLID	Total Solids	77	percent	0.0			EPA 160.3	04/30/1996	CLC
PB-S	Lead, soil	4.3	mg/kg	4.2	SW846 3050	05/03/1996	SW846 7421	05/03/1996	*EGB
G-S	Gasoline Range Organics(GRO)-Soil	ND	mg/kg	3.0		05/01/1996	WDNR MOD GRO	05/01/1996	mdc
	Soil spike	108	% RECOV	50					
	Soil spike duplicate	118	% RECOV	50					
DRO-S	Diesel Range Organics(DRO)-Soil	ND	mg/kg	4.2		04/30/1996	WDNR MOD DRO	05/01/1996	DLP
	Soil spike	75	% RECOV	50					
	Soil spike duplicate	74	% RECOV	50					
BTEX-S-ME	Benzene	ND	ug/kg	25		05/01/1996	WDNR MOD GRO	05/01/1996	mdc
	Ethyl Benzene	ND	ug/kg	25					
	Toluene	ND	ug/kg	25					
	Xylenes, m + p	ND	ug/kg	25					
	Xylene, o	ND	ug/kg	25					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

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PCA04-1507

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800-837-8238  
FAX: 715-392-5843

Lab Certification No. 816079330  
Location : LESTER PARK GULF COURSE/MN  
Your Sample ID:  
Sample Desc. : SB-8 5-7  
Sample Matrix : SOIL Date Collected: 04/29/1996  
En Chem Proj# : 0496040 Date Received : 04/29/1996  
En Chem Lab # : 500760 Date Reported : 05/14/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Anal By
TOTSOLID	Total Solids	81 percent		0.0			EPA 160.3	04/30/1996	C
PB-S	Lead, soil	5.8 mg/kg		4.1	SW846 3050	05/03/1996	SW846 7421	05/03/1996	*EGB
GRO-S	Gasoline Range Organics(GRO)-Soil	ND	mg/kg	3.3		05/01/1996	WDNR MOD GRO	05/01/1996	m
	Soil spike	108 % RECOV		50					
	Soil spike duplicate	118 % RECOV		50					
DRO-S	Diesel Range Organics(DRO)-Soil	ND	mg/kg	4.6		04/30/1996	WDNR MOD DRO	05/01/1996	D
	Soil spike	75 % RECOV		50					
	Soil spike duplicate	74 % RECOV		50					
BTEX-S-ME	Benzene	ND	ug/kg	25		05/01/1996	WDNR MOD GRO	05/01/1996	mdc
	Ethyl Benzene	ND	ug/kg	25					
	Toluene	ND	ug/kg	25					
	Xylenes, m + p	ND	ug/kg	25					
	Xylene, o	ND	ug/kg	25					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

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PCA04-1508





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2231 Catlin Avenue, Suite 420  
Superior, WI 54880  
715-392-5844  
800-837-8238  
FAX: 715-392-5843

Lab Certification No. 816079330  
Location : LESTER PARK GULF COURSE/MN  
Your Sample ID:  
Sample Desc. : TRIP BLANKS  
Sample Matrix : METHANOL Date Collected: 04/29/1996  
En Chem Proj# : 0496040 Date Received : 04/29/1996  
En Chem Lab # : 500761 Date Reported : 05/02/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analized By
GRO	Gasoline Range Organics(GRO)-Water	ND	ug/l	2500		05/01/1996	WDNR MOD GRO	05/01/1996	mdc
	Blank spike	108 % RECOV		50					
	Blank spike duplicate	118 % RECOV		50					
B-X-W	Benzene	ND	ug/l	25	SW846 5030	05/01/1996	SW846 8020	05/01/1996	mdc
	Ethyl Benzene	ND	ug/l	25					
	Toluene	ND	ug/l	25					
	Xylenes, m + p	ND	ug/l	25					
	Xylene, o	ND	ug/l	25					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

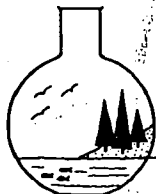
These results have been reviewed and their authenticity verified by:

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PCA04-1509







# Accurate Environmental Testing

2231 Catlin Avenue #420 ♦ Superior WI 54880

PHONE: (715) 392-5844 ♦ FAX: (715) 394-7414 ♦ (800)TEST-AET 837-8238

Bob Maslowksi  
Remediation Services Inc.  
102 S. 29th Avenue W., Suite 100  
Duluth, MN 55806

Chain of Custody # 95121  
Project Name: Zester Park Golf  
Client: RSI  
Sampler Name: Timothy Heren

Collected on

3/27/95 3/27/95 3/27/95 3/27/95 3/27/95

Received on

3/30/95 3/30/95 3/30/95 3/30/95 3/30/95

DRO Preserved on

3/30/95 3/30/95 3/30/95 3/30/95 NA

DRO Extracted on

4/3/95 4/3/95 4/3/95 4/3/95 NA

DRO Analyzed on

4/9/95 4/9/95 4/9/95 4/9/95 NA

GRO Analyzed on

4/9/95 4/9/95 4/9/95 4/9/95 4/9/95

Sample Description

SB-4 SB-4 SB-5 SB-6 Trip  
4.5'-6.5' 14.5'-16.5' 7-9' 7-9' Blank

Sample I.D.

1 2 3 4 5

Lab I.D.

95121-01 95121-02 95121-03 95121-04 95121-05

Parameter	PQL	SOIL	SOIL	SOIL	SOIL	SOIL
% Moisture	NA	16%	15%	26%	12%	NA
Temperature	NA	on ice	on ice	on ice	on ice	on ice
Diesel Range Organics	10 mg/kg	< PQL	< PQL	< PQL	< PQL	< PQL
Gasoline Range Organics	10 mg/kg	< PQL	< PQL	< PQL	< PQL	< PQL
Benzene	0.050 mg/kg	< PQL	< PQL	< PQL	< PQL	< PQL
Toluene	0.050 mg/kg	< PQL	< PQL	< PQL	< PQL	< PQL
Ethylbenzene	0.050 mg/kg	< PQL	< PQL	< PQL	< PQL	< PQL
Total Xylenes	0.050 mg/kg	< PQL	< PQL	< PQL	< PQL	< PQL
Comments	none	none	none	none	none	none

PQL indicates that practical quantitation limits were not met in analyses.

NA implies that this parameter was not analyzed or not applicable to test run

Filled out by:

Date:

4/11/95 4:12 PM

The following tests were performed according to the WI DRN specification listed in ch. NR 149 of the WI Adm. Code. WI DNR Certification # 816079330



**Era Laboratories, Inc.**

24 North 21st Avenue West  
Duluth, MN 55806-2017 (218) 727-6380



**LABORATORY REPORT**

MR JAY THOMPSON  
ACCURATE ENVIRONMENTAL TESTING  
2231 CATLIN AVENUE SUITE 420  
SUPERIOR WI 54880

LAB NO: 503217  
AET C O C NO: 95121  
PROJECT ID: CODLPGC95121  
DATE REC'D: Mar. 31, 1995  
REPORT DATE: Apr. 12, 1995

**Soil Samples**

<u>Sample I.D.</u>	<u>Lead (mg/Kg)</u>
SB-4 4.5-6.5 3/27/95, 1:40	13.3
SB-4 14.5-16.5 3/27/95, 2:45	9.0
SB-5 7-9 3/28/95, 9:04	13.0
SB-6 7-9 3/28/95, 11:17	5.9

ERA LABORATORIES, INC.

*Robert D. Magnuson*  
Robert D. Magnuson J.T.

MN Certification #027-137-152

WI Certification #999446800

All results are reported on an "as received" basis.

PCA04-1511



[illegible]



## REQUEST FOR ANALYSIS

**TOLL FREE (800) TEST-AET**  
**LAB (715) 392-5844**  
**FAX (715) 394-7414**

[illegible]

Refer to Quoto: #5837





# Accurate Environmental Testing

2231 Catlin Avenue #420 ♦ Superior WI 54880

PHONE: (715) 392-5844 ♦ FAX: (715) 394-7414 ♦ (800)TEST-AET 837-8238

Remediation Services, Inc.  
102 South 29th Avenue West..Suite 100  
Duluth, MN 55806

Chain of Custody # 94357  
Project Name: *Lester Park G.C.*  
Client: City of Duluth  
Sampler Name: Timothy Heren

Collected on  
Received on  
DRO Preserved on  
DRO Extracted on  
DRO Analyzed on  
GRO/PVOC Analyzed on  
Sample Description  
Sample I.D.  
Lab I.D.

12/7/94	12/7/94	12/7/94	12/7/94	NA
12/9/94	12/19/94	12/9/94	12/9/94	12/9/94
12/9/94	12/9/94	12/9/94	12/9/94	NA
12/19/94	12/19/94	12/19/94	12/19/94	NA
12/22/94	12/22/94	12/22/94	12/22/94	NA
12/21/94	12/22/94	12/22/94	12/22/94	12/22/94
SB-1	SB-2	SB-3	SB-3	Trip Blank
6-8'	10-12'	6-8'	14-16'	MeOH
1673	1674	1675	1676	1677

Parameter	PQL	SOIL	SOIL	SOIL	SOIL	MeOH
% Moisture	NA	10%	18%	11%	15%	NA
Temperature	NA	on ice	on ice	on ice	on ice	on ice
Diesel Range Organics	10 mg/kg	< PQL	< PQL	< PQL	< PQL	NA
Gasoline Range Organics	10 mg/kg	< PQL	< PQL	< PQL	< PQL	< PQL
MTBE	0.050 mg/kg	< PQL	< PQL	< PQL	< PQL	< PQL
Benzene	0.050 mg/kg	< PQL	< PQL	< PQL	0.83 mg/kg	< PQL
Toluene	0.050 mg/kg	< PQL	< PQL	< PQL	< PQL	< PQL
Ethylbenzen	0.050 mg/kg	< PQL	< PQL	< PQL	< PQL	< PQL
Total Xylenes	0.050 mg/kg	< PQL	< PQL	< PQL	< PQL	< PQL
1,3,5-Trimethylbenzene	0.050 mg/kg	< PQL	< PQL	< PQL	< PQL	< PQL
1,2,4-Trimethylbenzene	0.050 mg/kg	< PQL	< PQL	< PQL	< PQL	< PQL
Comments	none	none	none	none	none	none

PQL indicates that practical quantitation limits were not met in analyses.

NA implies that this parameter was not analyzed or not applicable to test run

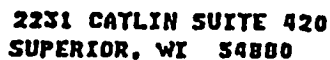
Filled out by:

Date:

12/30/94 11:05 AM

The following tests were performed according to the WI DRN specification listed in ch. NR 149 of the WI Adm. Code. WI DNR Certification # 816079330





## CHAIN OF CUSTODY RECORD

**AND**

## REQUEST FOR ANALYSIS

Temp. iced

**TOLL FREE (800) TEST-AET**  
**LAB (715) 392-5844**  
**FAX (715) 394-7414**

[illegible]

Refer to Quote # 5837



**Era Laboratories, Inc.**

24 North 21st Avenue West  
Duluth, MN 55806-2017 (218) 727-6380



**LABORATORY REPORT**

Mr. Jay Thompson  
Accurate Environmental Testing  
2231 Catlin Avenue, Suite 420  
Superior, WI 54880

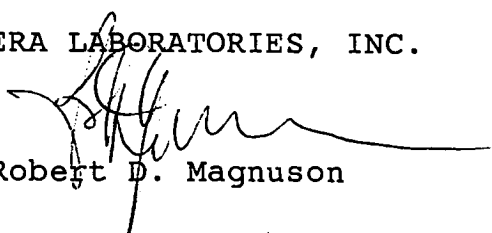
LAB NO: 412091  
DATE REC'D: 12/14/94  
REPORT DATE: 12/21/94

**Soil Samples**

<u>Sample I.D.</u>	<u>Lead (mg/Kg)</u>
SB-1 6-8' 12/07/94, 10:45	9.3
SB-2 10-12' 12/07/94, 10:05	12
SB-3 6-8' 12/07/94, 11:32	5.5
SB-3 14-16' 12/07/94, 11:50	11
Temp. Upon Arrival	iced

All results are reported on an "as received" basis.

ERA LABORATORIES, INC.

  
Robert D. Magnuson

MN Certification #027-137-152

WI Certification #999446800





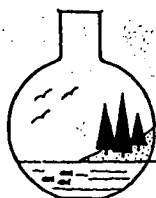
CHAIN OF CUSTODY RECORD  
AND  
REQUEST FOR ANALYSIS

**TOLL FREE (800) TEST-AET**  
**LAB (715) 392-5844**  
**FAX (715) 394-7414**

NO 94-557

[illegible]





# Accurate Environmental Testing

2231 Catlin Avenue #420 ♦ Superior WI 54880

PHONE: (715) 392-5844 ♦ FAX: (715) 394-7414 ♦ (800)TEST-AET 837-8238

Bob Maslowksi  
Remediation Services Inc.  
102 S. 29th Avenue W., Suite 100  
Duluth, MN 55806

Chain of Custody # 95136  
Project Name: LPGC  
Client: RSI  
Sampler Name: Timothy Heren

Collected on  
Received on  
DRO Preserved on  
DRO Extracted on  
DRO Analyzed on  
GROBTEX Analyzed on  
Sample Description  
Sample I.D.  
Lab I.D.

4/26/95	4/26/95	4/26/95	4/26/95
4/26/95	4/26/95	4/26/95	4/26/95
Field	Field	Field	NA
5/1/95	4/28/95	4/28/95	NA
5/3/95	5/3/95	5/3/95	NA
5/3/95	5/3/95	5/3/95	5/3/95
MW-1	MW-2	MW-3	FIELD BLANK
MW-1	MW-2	MW-3	F.B.
95136-01	95136-02	95136-03	95136-06

Parameter	PQL	WATER	WATER	WATER	WATER
Temperature	NA	on ice	on ice	on ice	on ice
Diesel Range Organics	100 ug/L	150 ug/L	320 ug/L	< PQL	NA
Gasoline Range Organics	100 ug/L	< PQL	11000 ug/L	< PQL	< PQL
Comments	none	none	none	none	none

PQL indicates that practical quantitation limits were not met in analyses.

NA implies that this parameter was not analyzed or not applicable to test run

Filled out by:

Date: 5/5/95 3:19 PM

The following tests were performed according to the WI DRN specification listed in ch. NR 149 of the WI Adm. Code. WI DNR Certification # 816079330





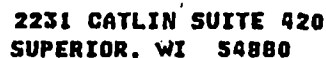
2231 DALLIN SUITE 920  
SUPERIOR, WI 54880

CHAIN OF CUSTODY RECORD  
AND  
REQUEST FOR ANALYSIS

TOLL FREE (800) TEST-AET  
LAB (716) 392-6844  
FAX (716) 394-7414

[illegible]





# CHAIN OF CUSTODY RECORD AND REQUEST FOR ANALYSIS

**TOLL FREE (800) TEST-AET**  
**LAB (715) 392-5844**  
**FAX (715) 394-7414**

[illegible]

**PCA04-1520**



Era Laboratories, Inc.

24 North 21st Avenue West

Duluth, MN 55806-2017 (218) 727-6380



## LABORATORY REPORT

MR JAY THOMPSON  
ACCURATE ENVIRONMENTAL TESTING  
2231 CATLIN AVENUE SUITE 420  
SUPERIOR WI 54880

LAB NO: 504214  
AET C O C NO: 95136  
PROJECT ID: CODLPGC95136  
DATE REC'D: Apr. 28, 1995  
REPORT DATE: May 19, 1995

### Water Samples

<u>Sample I.D.</u>	<u>Lead (<math>\mu\text{g/L}</math>)</u>
MW-1 4/26/95, 11:10	<50
MW-2 4/26/95, 11:40	<50
MW-3 4/26/95, 10:10	<50
Temp. Upon Arrival	iced

ERA LABORATORIES, INC.

  
Robert D. Magnuson

MN Certification #027-137-152

WI Certification #999446800



**Era Laboratories, Inc.**24 North 21st Avenue West, Duluth, MN 55805-2107  
(218) 727-6390

Chemical and Biological Testing Services

**SAMPLE ANALYSIS REPORT****FOR VOLATILE ORGANIC COMPOUNDS (V.O.C.s)****Laboratory Information**Era Method: 9310  
Reference Method: MDH 465DEra Project # 504214  
Chain of Custody # 95136Analysis File I.D. c:\HPCHEM\1\DATA\  
MAY05\002F0101**Sample Information**

Client: Accurate Environ. Testing

Sample Name: **Lab Reagent Blank**Sample matrix: **water**date collected: -  
date analyzed: 5/5/95Comments: This Blank was prepared  
at Era Laboratories.**Results**

Analyte	Amount	Units	PQL ug/L	Comment	Analyte	Amount	Units	PQL ug/L	Comment
dichlorodifluoromethane	<PQL	ug/L	0.9		1,3-dichlorobenzene	<PQL	ug/L	0.3	
chloromethane	<PQL	ug/L	0.9		1,4-dichlorobenzene	<PQL	ug/L	0.3	
vinyl chloride	<PQL	ug/L	0.3		1,2-dichlorobenzene	<PQL	ug/L	0.3	
bromomethane	<PQL	ug/L	0.3		1,2-dibromo-3-chloropropane	<PQL	ug/L	0.9	
chloroethane	<PQL	ug/L	0.3		1,2,4-trichlorobenzene	<PQL	ug/L	0.9	
trichlorofluoromethane	<PQL	ug/L	0.3		hexachlorobutadiene	<PQL	ug/L	0.9	
1,1-dichloroethane	<PQL	ug/L	0.3		1,2,3-trichlorobenzene	<PQL	ug/L	0.9	
methylene chloride	<PQL	ug/L	0.3		dichlorofluoromethane	<PQL	ug/L	1.0	
trans-1,2-dichloroethene	<PQL	ug/L	0.3		trichlorotrifluoroethane	<PQL	ug/L	1.0	
1,1-dichloroethane	<PQL	ug/L	0.3		allyl chloride	<PQL	ug/L	1.0	
2,2-dichloropropane	<PQL	ug/L	0.3		benzene	<PQL	ug/L	0.3	
cis-1,2-dichloroethane	<PQL	ug/L	0.3		toluene	<PQL	ug/L	0.3	
chloroform	<PQL	ug/L	0.3		ethyl benzene	<PQL	ug/L	0.3	
bromochloromethane	<PQL	ug/L	0.3		m-xylene + p-xylene	<PQL	ug/L	0.3	
1,1,1-trichloroethane	<PQL	ug/L	0.3		o-xylene	<PQL	ug/L	0.3	
1,1-dichloropropane	<PQL	ug/L	0.3		styrene	<PQL	ug/L	0.3	
carbon tetrachloride	<PQL	ug/L	0.3		isopropyl benzene	<PQL	ug/L	0.3	
1,2-dichloroethane	<PQL	ug/L	0.3		n-propylbenzene	<PQL	ug/L	0.3	
trichloroethane	<PQL	ug/L	0.3		1,3,5-trimethylbenzene + 2-chlorotoluene	<PQL	ug/L	0.3	
1,2-dichloropropane	<PQL	ug/L	0.3		tert-butylbenzene	<PQL	ug/L	0.3	
bromodichloromethane	<PQL	ug/L	0.3		1,2,4-trimethylbenzene	<PQL	ug/L	0.3	
dibromomethane	<PQL	ug/L	0.3		sec-butylbenzene	<PQL	ug/L	0.3	
cis-1,3-dichloropropene	<PQL	ug/L	0.3		p-isopropyltoluene	<PQL	ug/L	0.3	
trans-1,3-dichloropropene	<PQL	ug/L	0.3		n-butylbenzene	<PQL	ug/L	0.3	
1,1,2-trichloroethane	<PQL	ug/L	0.3		naphthalene	<PQL	ug/L	0.9	
1,3-dichloropropene	<PQL	ug/L	0.3		ethyl ether	<PQL	ug/L	5.	
tetrachloroethane	<PQL	ug/L	0.3		acetone	<PQL	ug/L	20.	
dibromochloromethane	<PQL	ug/L	0.3		methyl tertiary butyl ether	<PQL	ug/L	5.	
1,2-dibromoethane	<PQL	ug/L	0.3		methyl ethyl ketone	<PQL	ug/L	5.	
chlorobenzene	<PQL	ug/L	0.3		tetrahydrofuran	<PQL	ug/L	5.	
1,1,1,2-tetrachloroethane	<PQL	ug/L	0.3		methyl isobutyl ketone	<PQL	ug/L	5.	
bromoform	<PQL	ug/L	0.3						
1,1,2,2-tetrachloroethane	<PQL	ug/L	0.3						
1,2,3-trichloropropane	<PQL	ug/L	0.3						
bromobenzene	<PQL	ug/L	0.3						
2-chlorotoluene	<PQL	ug/L	0.3						
4-chlorotoluene	<PQL	ug/L	0.3						

PQL = Practical Quantitation Limit. This is an established quantitation limit which takes into account all the inherent method limitations related to routine sample analyses.  
The PQL value is, in general, 3 times the established MDL (Minimum Detection Limit).



Randall Helander  
Project Manager



**Era Laboratories, Inc.**24 North 21st Avenue West, Duluth, MN 55806-2107  
(218) 727-6380

Chemical and Biological Testing Services

**SAMPLE ANALYSIS REPORT**

FOR VOLATILE ORGANIC COMPOUNDS (V.O.C.s)

**Laboratory Information**Era Method: 9310  
Reference Method: MDH 465DEra Project # 504214  
Chain of Custody # 95136Analysis File I.D. c:\HPCHEM\1\DATA\  
MAY04\001F0101**Sample Information**

Client: Accurate Environ. Testing

Sample Name: Lab Reagent Blank

Sample matrix: water

date collected: -

date analyzed: 5/4/95

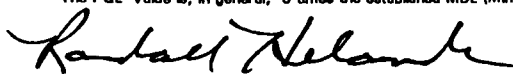
Comments: This Blank was prepared  
at Era Laboratories.**Results**

Analyte	Amount	Units	PQL ug/L	Comment	Analyte	Amount	Units	PQL ug/L	Comment
dichlorodifluoromethane	<PQL	ug/L	0.9		1,3-dichlorobenzene	<PQL	ug/L	0.3	
chloromethane	<PQL	ug/L	0.9		1,4-dichlorobenzene	<PQL	ug/L	0.3	
vinyl chloride	<PQL	ug/L	0.3		1,2-dichlorobenzene	<PQL	ug/L	0.3	
bromomethane	<PQL	ug/L	0.3	A	1,2-dibromo-3-chloropropane	<PQL	ug/L	0.9	
chloroethane	<PQL	ug/L	0.3	A	1,2,4-trichlorobenzene	<PQL	ug/L	0.9	
trichlorofluoromethane	<PQL	ug/L	0.3	A	hexachlorobutadiene	<PQL	ug/L	0.9	
1,1-dichloroethene	<PQL	ug/L	0.3		1,2,3-trichlorobenzene	<PQL	ug/L	0.9	
methylene chloride	<PQL	ug/L	0.3						
trans-1,2-dichloroethene	<PQL	ug/L	0.3		dichlorofluoromethane	<PQL	ug/L	1.0	A
1,1-dichloroethane	<PQL	ug/L	0.3		trichlorotrifluoroethane	<PQL	ug/L	1.0	
2,2-dichloropropane	<PQL	ug/L	0.3		allyl chloride	<PQL	ug/L	1.0	
cis-1,2-dichloroethane	<PQL	ug/L	0.3						
chloroform	<PQL	ug/L	0.3		benzene	<PQL	ug/L	0.3	
bromochloromethane	<PQL	ug/L	0.3		toluene	<PQL	ug/L	0.3	
1,1,1-trichloroethane	<PQL	ug/L	0.3		ethyl benzene	<PQL	ug/L	0.3	
1,1-dichloropropane	<PQL	ug/L	0.3		m-xylene + p-xylene	<PQL	ug/L	0.3	
carbon tetrachloride	<PQL	ug/L	0.3		o-xylene	<PQL	ug/L	0.3	
1,2-dichloroethane	<PQL	ug/L	0.3		styrene	<PQL	ug/L	0.3	
trichloroethene	<PQL	ug/L	0.3		isopropyl benzene	<PQL	ug/L	0.3	
1,2-dichloropropane	<PQL	ug/L	0.3		n-propylbenzene	<PQL	ug/L	0.3	
bromodichloromethane	<PQL	ug/L	0.3		1,3,5-trimethylbenzene +	<PQL	ug/L	0.3	
dibromomethane	<PQL	ug/L	0.3		2-chlorotoluene				
cis-1,3-dichloropropene	<PQL	ug/L	0.3		tert-butylbenzene	<PQL	ug/L	0.3	
trans-1,3-dichloropropene	<PQL	ug/L	0.3		1,2,4-trimethylbenzene	<PQL	ug/L	0.3	
1,1,2-trichloroethane	<PQL	ug/L	0.3		sec-butylbenzene	<PQL	ug/L	0.3	
1,3-dichloropropane	<PQL	ug/L	0.3		p-isopropyltoluene	<PQL	ug/L	0.3	
tetrachloroethene	<PQL	ug/L	0.3		n-butylbenzene	<PQL	ug/L	0.3	
dibromochloromethane	<PQL	ug/L	0.3		naphthalene	<PQL	ug/L	0.9	
1,2-dibromoethane	<PQL	ug/L	0.3						
chlorobenzene	<PQL	ug/L	0.3		ethyl ether	<PQL	ug/L	5.	
1,1,1,2-tetrachloroethane	<PQL	ug/L	0.3		acetone	<PQL	ug/L	20.	A
bromoform	<PQL	ug/L	0.3		methyl tertiary butyl ether	<PQL	ug/L	5.	
1,1,2,2-tetrachloroethane	<PQL	ug/L	0.3		methyl ethyl ketone	<PQL	ug/L	5.	A
1,2,3-trichloropropane	<PQL	ug/L	0.3		tetrahydrofuran	<PQL	ug/L	5.	A
bromobenzene	<PQL	ug/L	0.3		methyl isobutyl ketone	<PQL	ug/L	5.	
2-chlorotoluene	<PQL	ug/L	0.3						
4-chlorotoluene	<PQL	ug/L	0.3						

**COMMENTS**

A

The QC Check Standard analyzed with this sample failed our QC recovery requirements for these compounds.

PQL = Practical Quantitation Limit. This is an established quantitation limit which takes into account all the inherent method limitations related to routine sample analyses.  
The PQL value is, in general, 3 times the established MDL (Minimum Detection Limit).Randall Helander  
Project Manager



**Era Laboratories, Inc.**24 North 21st Avenue West, Duluth, MN 55806-2107  
(218) 727-6380

Chemical and Biological Testing Services

**SAMPLE ANALYSIS REPORT**

FOR VOLATILE ORGANIC COMPOUNDS (V.O.C.s)

**Laboratory Information**Era Method: 9310  
Reference Method: MDH 485DEra Project # 504214-6  
Chain of Custody # 85136Analysis File I.D. c:\HPCHEM\1\DATA\1  
MAY04\012F0101**Sample Information**

Client: Accurate Environ. Testing

Sample Name: **Field Blank**Sample matrix: **water**date collected: 4/26/95  
date analyzed: 5/5/95Comments: This Blank was not prepared  
at Era Laboratories.**Results**

Analyte	Amount	Units	PQL ug/L	Comment	Analyte	Amount	Units	PQL ug/L	Comment
dichlorodifluoromethane	<PQL	ug/L	0.9		1,3-dichlorobenzene	<PQL	ug/L	0.3	
chloromethane	<PQL	ug/L	0.9		1,4-dichlorobenzene	<PQL	ug/L	0.3	
vinyl chloride	<PQL	ug/L	0.3		1,2-dichlorobenzene	<PQL	ug/L	0.3	
bromomethane	<PQL	ug/L	0.3	A	1,2-dibromo-3-chloropropane	<PQL	ug/L	0.9	
chloroethane	<PQL	ug/L	0.3	A	1,2,4-trichlorobenzene	<PQL	ug/L	0.9	
trichlorofluoromethane	<PQL	ug/L	0.3	A	hexachlorobutadiene	<PQL	ug/L	0.9	
1,1-dichloroethene	2.4	ug/L	0.3		1,2,3-trichlorobenzene	<PQL	ug/L	0.9	
methylene chloride	<PQL	ug/L	0.3		dichlorodifluoromethane	<PQL	ug/L	1.0	A
trans-1,2-dichloroethene	<PQL	ug/L	0.3		trichlorotrifluoroethane	<PQL	ug/L	1.0	
1,1-dichloroethane	<PQL	ug/L	0.3		allyl chloride	<PQL	ug/L	1.0	
2,2-dichloropropane	<PQL	ug/L	0.3		benzene	<PQL	ug/L	0.3	
cis-1,2-dichloroethene	<PQL	ug/L	0.3		toluene	<PQL	ug/L	0.3	
chloroform	3.5	ug/L	0.3		ethyl benzene	<PQL	ug/L	0.3	
bromochloromethane	<PQL	ug/L	0.3		m-xylene + p-xylene	<PQL	ug/L	0.3	
1,1,1-trichloroethane	30.9	ug/L	0.3		o-xylene	<PQL	ug/L	0.3	
1,1-dichloropropene	<PQL	ug/L	0.3		styrene	<PQL	ug/L	0.3	
carbon tetrachloride	<PQL	ug/L	0.3		isopropyl benzene	<PQL	ug/L	0.3	
1,2-dichloroethane	<PQL	ug/L	0.3		n-propylbenzene	<PQL	ug/L	0.3	
trichloroethene	<PQL	ug/L	0.3		1,3,5-trimethylbenzene +	<PQL	ug/L	0.3	
1,2-dichloropropane	<PQL	ug/L	0.3		2-chlorotoluene				
bromodichloromethane	0.5	ug/L	0.3		tert-butylbenzene	<PQL	ug/L	0.3	
dibromomethane	<PQL	ug/L	0.3		1,2,4-trimethylbenzene	<PQL	ug/L	0.3	
cis-1,3-dichloropropene	<PQL	ug/L	0.3		sec-butylbenzene	<PQL	ug/L	0.3	
trans-1,3-dichloropropene	<PQL	ug/L	0.3		p-isopropyltoluene	<PQL	ug/L	0.3	
1,1,2-trichloroethane	<PQL	ug/L	0.3		n-butylbenzene	<PQL	ug/L	0.3	
1,3-dichloropropene	<PQL	ug/L	0.3		naphthalene	<PQL	ug/L	0.9	
tetrachloroethene	<PQL	ug/L	0.3		ethyl ether	<PQL	ug/L	5.	
dibromochloromethane	<PQL	ug/L	0.3		acetone	<PQL	ug/L	20.	A
1,2-dibromoethane	<PQL	ug/L	0.3		methyl tertiary butyl ether	<PQL	ug/L	5.	
chlorobenzene	<PQL	ug/L	0.3		methyl ethyl ketone	<PQL	ug/L	5.	A
1,1,1,2-tetrachloroethane	<PQL	ug/L	0.3		tetrahydrofuran	<PQL	ug/L	5.	A
1,2,3-trichloropropene	<PQL	ug/L	0.3		methyl isobutyl ketone	<PQL	ug/L	5.	
bromobenzene	<PQL	ug/L	0.3						
2-chlorotoluene	<PQL	ug/L	0.3						
4-chlorotoluene	<PQL	ug/L	0.3						

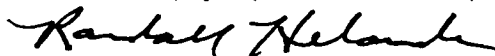
**COMMENTS**

A

The QC Check Standard analyzed with this sample failed our QC recovery requirements for these compounds.

PQL = Practical Quantitation Limit. This is an established quantitation limit which takes into account all the inherent method limitations related to routine sample analyses.

The PQL value is, in general, 3 times the established MDL (Minimum Detection Limit).

Randall Helander  
Project Manager



**Era Laboratories, Inc.**24 North 21st Avenue West, Duluth, MN 55806-2107  
(218) 727-8380

Chemical and Biological Testing Services

**SAMPLE ANALYSIS REPORT**

FOR VOLATILE ORGANIC COMPOUNDS (V.O.C.s)

**Laboratory Information**Era Method: 9310  
Reference Method: MDH 4850Era Project # 504214-1  
Chain of Custody # 95136Analysis File I.D. c:\HPCHEM\1\DATA\1  
MAY04\004F0101**Sample Information**

Client: Accurate Environ. Testing

Sample Name: MW-1

Sample matrix: water

date collected: 4/26/95

date analyzed: 5/4/95

Comments:

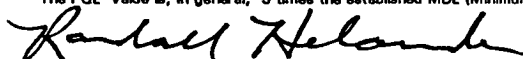
**Results**

Analyte	Amount	Units	PQL ug/L	Comment	Analyte	Amount	Units	PQL ug/L	Comment
dichlorodifluoromethane	<PQL	ug/L	0.9		1,3-dichlorobenzene	<PQL	ug/L	0.3	
chloromethane	<PQL	ug/L	0.9		1,4-dichlorobenzene	<PQL	ug/L	0.3	
vinyl chloride	<PQL	ug/L	0.3		1,2-dichlorobenzene	<PQL	ug/L	0.3	
bromomethane	<PQL	ug/L	0.3	A	1,2-dibromo-3-chloropropane	<PQL	ug/L	0.9	
chloroethane	<PQL	ug/L	0.3	A	1,2,4-trichlorobenzene	<PQL	ug/L	0.9	
trichlorofluoromethane	<PQL	ug/L	0.3	A	hexachlorobutadiene	<PQL	ug/L	0.9	
1,1-dichloroethane	<PQL	ug/L	0.3		1,2,3-trichlorobenzene	<PQL	ug/L	0.9	
methylene chloride	<PQL	ug/L	0.3		dichlorofluoromethane	<PQL	ug/L	1.0	A
trans-1,2-dichloroethane	<PQL	ug/L	0.3		trichlorotrifluoroethane	<PQL	ug/L	1.0	
1,1-dichloroethane	<PQL	ug/L	0.3		allyl chloride	<PQL	ug/L	1.0	
2,2-dichloropropane	<PQL	ug/L	0.3		benzene	0.8 ug/L	0.3		
cis-1,2-dichloroethane	<PQL	ug/L	0.3		toluene	0.8 ug/L	0.3		
chloroform	<PQL	ug/L	0.3		ethyl benzene	<PQL	ug/L	0.3	
bromochloromethane	<PQL	ug/L	0.3		m-xylene + p-xylene	1.7 ug/L	0.3		
1,1,1-trichloroethane	<PQL	ug/L	0.3		o-xylene	1.1 ug/L	0.3		
1,1-dichloropropene	<PQL	ug/L	0.3		styrene	<PQL	ug/L	0.3	
carbon tetrachloride	<PQL	ug/L	0.3		isopropyl benzene	<PQL	ug/L	0.3	
1,2-dichloroethane	<PQL	ug/L	0.3		n-propylbenzene	<PQL	ug/L	0.3	
trichloroethane	<PQL	ug/L	0.3		1,3,5-trimethylbenzene + 2-chlorotoluene	<PQL	ug/L	0.3	
1,2-dichloropropane	<PQL	ug/L	0.3		tert-butylbenzene	<PQL	ug/L	0.3	
bromodichloromethane	<PQL	ug/L	0.3		1,2,4-trimethylbenzene	<PQL	ug/L	0.3	
dibromomethane	<PQL	ug/L	0.3		sec-butylbenzene	<PQL	ug/L	0.3	
cis-1,3-dichloropropene	<PQL	ug/L	0.3		p-isopropyltoluene	<PQL	ug/L	0.3	
trans-1,3-dichloropropene	<PQL	ug/L	0.3		n-butylbenzene	<PQL	ug/L	0.3	
1,1,2-trichloroethane	<PQL	ug/L	0.3		naphthalene	<PQL	ug/L	0.9	
1,3-dichloropropane	<PQL	ug/L	0.3		ethyl ether	<PQL	ug/L	5.	
tetrachloroethane	<PQL	ug/L	0.3		acetone	<PQL	ug/L	20.	A
dibromochloromethane	<PQL	ug/L	0.3		methyl tertiary butyl ether	<PQL	ug/L	5.	
1,2-dibromoethane	<PQL	ug/L	0.3		methyl ethyl ketone	<PQL	ug/L	5.	A
chlorobenzene	<PQL	ug/L	0.3		tetrahydrofuran	<PQL	ug/L	5.	A
1,1,1,2-tetrachloroethane	<PQL	ug/L	0.3		methyl isobutyl ketone	<PQL	ug/L	5.	
bromoform	<PQL	ug/L	0.3						
1,1,2,2-tetrachloroethane	<PQL	ug/L	0.3						
1,2,3-trichloropropane	<PQL	ug/L	0.3						
bromobenzene	<PQL	ug/L	0.3						
2-chlorotoluene	<PQL	ug/L	0.3						
4-chlorotoluene	<PQL	ug/L	0.3						

**COMMENTS**

A

The QC Check Standard analyzed with this sample failed our QC recovery requirements for these compounds.

PQL = Practical Quantitation Limit. This is an established quantitation limit which takes into account all the inherent method limitations related to routine sample analyses.  
The PQL value is, in general, 3 times the established MDL (Minimum Detection Limit).Randall Helander  
Project Manager



## Era Laboratories, Inc.

24 North 21st Avenue West, Duluth, MN 55806-2107  
(218) 727-6390

Chemical and Biological Testing Services

## SAMPLE ANALYSIS REPORT

FOR VOLATILE ORGANIC COMPOUNDS (V.O.C.s)

## Laboratory Information

Era Method: 9310  
Reference Method: MDH 485D

Era Project #: 504214-4  
Chain of Custody #: 95136

Analysis File I.D. c:\HPCHEM\1\DATA\  
MAY04\009F0101

## Sample Information

Client: Accurate Environ. Testing

Sample Name: MW-2 FIELD DUP.

Sample matrix: water

date collected: 4/28/95

date analyzed: 5/4/95

Comments:

## Results

Analyte	Amount	Units	PQL ug/L	Comment	Analyte	Amount	Units	PQL ug/L	Comment
dichlorodifluoromethane	<PQL	ug/L	0.9		1,3-dichlorobenzene	<PQL	ug/L	0.3	
chloromethane	<PQL	ug/L	0.9		1,4-dichlorobenzene	<PQL	ug/L	0.3	
vinyl chloride	<PQL	ug/L	0.3		1,2-dichlorobenzene	<PQL	ug/L	0.3	
bromomethane	<PQL	ug/L	0.3	A	1,2-dibromo-3-chloropropane	<PQL	ug/L	0.9	
chloroethane	<PQL	ug/L	0.3	A	1,2,4-trichlorobenzene	<PQL	ug/L	0.9	
trichlorofluoromethane	<PQL	ug/L	0.3	A	hexachlorobutadiene	<PQL	ug/L	0.9	
1,1-dichloroethane	<PQL	ug/L	0.3		1,2,3-trichlorobenzene	<PQL	ug/L	0.9	
methylene chloride	<PQL	ug/L	0.3						
trans-1,2-dichloroethane	<PQL	ug/L	0.3		dichlorofluoromethane	<PQL	ug/L	1.0	A
1,1-dichloroethane	<PQL	ug/L	0.3		trichlorotrifluoroethane	<PQL	ug/L	1.0	
2,2-dichloropropane	<PQL	ug/L	0.3		allyl chloride	<PQL	ug/L	1.0	
cis-1,2-dichloroethane	<PQL	ug/L	0.3						
chloroform	<PQL	ug/L	0.3		benzene	631. ug/L		3.	B
bromochloromethane	<PQL	ug/L	0.3		toluene	141. ug/L		3.	B
1,1,1-trichloroethane	<PQL	ug/L	0.3		ethyl benzene	221. ug/L		3.	B
1,1-dichloropropane	<PQL	ug/L	0.3		m-xylene + p-xylene	282. ug/L		3.	B
carbon tetrachloride	<PQL	ug/L	0.3		o-xylene	80. ug/L		3.	B
1,2-dichloroethane	12.8 ug/L		0.3		styrene	<PQL	ug/L	3.	B
trichloroethane	<PQL	ug/L	0.3		isopropyl benzene	43. ug/L		3.	B
1,2-dichloropropane	<PQL	ug/L	0.3		n-propylbenzene	47. ug/L		3.	B
bromodichloromethane	<PQL	ug/L	0.3		1,3,5-trimethylbenzene +	86. ug/L		3.	B
dibromomethane	<PQL	ug/L	0.3		2-chlorotoluene				
cis-1,3-dichloropropene	<PQL	ug/L	0.3		tert-butylbenzene	<PQL	ug/L	3.	B
trans-1,3-dichloropropene	<PQL	ug/L	0.3		1,2,4-trimethylbenzene	82. ug/L		3.	B
1,1,2-trichloroethane	<PQL	ug/L	0.3		sec-butylbenzene	15. ug/L		3.	B
1,3-dichloropropene	<PQL	ug/L	0.3		p-isopropyltoluene	13. ug/L		3.	B
tetrachloroethane	<PQL	ug/L	0.3		n-butylbenzene	32. ug/L		3.	B
dibromochloromethane	<PQL	ug/L	0.3		naphthalene	91. ug/L		9.	B
1,2-dibromoethane	<PQL	ug/L	0.3						
chlorobenzene	<PQL	ug/L	0.3		ethyl ether	<PQL	ug/L	50	B
1,1,1,2-tetrachloroethane	<PQL	ug/L	0.3		acetone	<PQL	ug/L	200	B
bromoform	<PQL	ug/L	0.3		methyl tertiary butyl ether	<PQL	ug/L	50	B
1,1,2,2-tetrachloroethane	<PQL	ug/L	0.3		methyl ethyl ketone	960 ug/L		50	B
1,2,3-trichloropropane	<PQL	ug/L	0.3		tetrahydrofuran	<PQL	ug/L	50	B
bromobenzene	<PQL	ug/L	0.3		methyl isobutyl ketone	<PQL	ug/L	50	B
2-chlorotoluene	<PQL	ug/L	0.3						
4-chlorotoluene	<PQL	ug/L	0.3						

## COMMENTS

- A The QC Check Standard analyzed with this sample failed our QC recovery requirements for these compounds.
- B Due to the dilution requirements of this sample, the PQL's (Practical Quantitation Limits) for these compounds are 10 times what would normally be reported.

PQL = Practical Quantitation Limit. This is an established quantitation limit which takes into account all the inherent method limitations related to routine sample analyses.  
The PQL value is, in general, 3 times the established MDL (Minimum Detection Limit).

*Randall Helander*  
Randall Helander  
Project Manager



**Era Laboratories, Inc.**24 North 21st Avenue West, Duluth, MN 55805-2107  
(218) 727-6380

Chemical and Biological Testing Services

**SAMPLE ANALYSIS REPORT**

FOR VOLATILE ORGANIC COMPOUNDS (V.O.C.s)

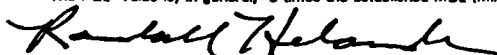
Laboratory Information	Sample Information
Era Method: 9310 Reference Method: MDH 485D	Client: Accurate Environ. Testing
Era Project #: 504214-2 Chain of Custody #: 95138	Sample Name: MW-2 Sample matrix: water
Analysis File I.D.: c:\HPCHEM\1\DATA\ MAY04\007F0101	date collected: 4/26/95 date analyzed: 5/4/95
	Comments:

Results							
Analyte	Amount	Units	PQL ug/L	Comment	Analyte	Amount	Units PQL ug/L Comment
dichlorodifluoromethane	<PQL	ug/L	0.9		1,3-dichlorobenzene	<PQL	ug/L 0.3
chloromethane	<PQL	ug/L	0.9		1,4-dichlorobenzene	<PQL	ug/L 0.3
vinyl chloride	<PQL	ug/L	0.3		1,2-dichlorobenzene	<PQL	ug/L 0.3
bromomethane	<PQL	ug/L	0.3	A	1,2-dibromo-3-chloropropane	<PQL	ug/L 0.9
chloroethane	<PQL	ug/L	0.3	A	1,2,4-trichlorobenzene	<PQL	ug/L 0.9
trichlorofluoromethane	<PQL	ug/L	0.3	A	hexachlorobutadiene	<PQL	ug/L 0.9
1,1-dichloroethane	<PQL	ug/L	0.3		1,2,3-trichlorobenzene	<PQL	ug/L 0.9
methylene chloride	<PQL	ug/L	0.3		dichlorofluoromethane	<PQL	ug/L 1.0
trans-1,2-dichloroethane	<PQL	ug/L	0.3		trichlorotrifluoroethane	<PQL	ug/L 1.0
1,1-dichloroethane	<PQL	ug/L	0.3		allyl chloride	<PQL	ug/L 1.0
2,2-dichloropropane	<PQL	ug/L	0.3				
cis-1,2-dichloroethane	<PQL	ug/L	0.3		benzene	658. ug/L	3. B
chloroform	<PQL	ug/L	0.3		toluene	132. ug/L	3. B
bromochloromethane	<PQL	ug/L	0.3		ethyl benzene	209. ug/L	3. B
1,1,1-trichloroethane	<PQL	ug/L	0.3		m-xylene + p-xylene	266. ug/L	3. B
1,1-dichloropropene	<PQL	ug/L	0.3		o-xylene	76. ug/L	3. B
carbon tetrachloride	<PQL	ug/L	0.3		styrene	<PQL	ug/L 3. B
1,2-dichloroethane	15.8 ug/L	ug/L	0.3		isopropyl benzene	41. ug/L	3. B
trichloroethane	<PQL	ug/L	0.3		n-propylbenzene	46. ug/L	3. B
1,2-dichloropropane	<PQL	ug/L	0.3		1,3,5-trimethylbenzene + 2-chlorotoluene	83. ug/L	3. B
bromodichloromethane	<PQL	ug/L	0.3		tert-butylbenzene	<PQL	ug/L 3. B
dibromomethane	<PQL	ug/L	0.3		1,2,4-trimethylbenzene	77. ug/L	3. B
cis-1,3-dichloropropene	<PQL	ug/L	0.3		sec-butylbenzene	15. ug/L	3. B
trans-1,3-dichloropropene	<PQL	ug/L	0.3		p-isopropyltoluene	13. ug/L	3. B
1,1,2-trichloroethane	<PQL	ug/L	0.3		n-butylbenzene	31. ug/L	3. B
1,3-dichloropropene	<PQL	ug/L	0.3		naphthalene	88. ug/L	9. B
tetrachloroethane	<PQL	ug/L	0.3		ethyl ether	<PQL	ug/L 50 B
dibromochloromethane	0.7 ug/L	ug/L	0.3		acetone	<PQL	ug/L 200 B
1,2-dibromoethane	<PQL	ug/L	0.3		methyl tertiary butyl ether	<PQL	ug/L 50 B
chlorobenzene	<PQL	ug/L	0.3		methyl ethyl ketone	1020 ug/L	50 B
1,1,1,2-tetrachloroethane	<PQL	ug/L	0.3		tetrahydrofuran	<PQL	ug/L 50 B
bromoform	<PQL	ug/L	0.3		methyl isobutyl ketone	<PQL	ug/L 50 B
1,1,2,2-tetrachloroethane	<PQL	ug/L	0.3				
1,2,3-trichloropropane	<PQL	ug/L	0.3				
bromobenzene	<PQL	ug/L	0.3				
2-chlorotoluene	<PQL	ug/L	0.3				
4-chlorotoluene	<PQL	ug/L	0.3				

**COMMENTS**

- A The QC Check Standard analyzed with this sample failed our QC recovery requirements for these compounds.
- B Due to the dilution requirements of this sample, the PQL's (Practical Quantitation Limits) for these compounds are 10 times what would normally be reported.

PQL = Practical Quantitation Limit. This is an established quantitation limit which takes into account all the inherent method limitations related to routine sample analyses.  
The PQL value is, in general, 3 times the established MDL (Minimum Detection Limit).

Randall Helander  
Project Manager



**Era Laboratories, Inc.**24 North 21st Avenue West, Duluth, MN 55808-2107  
(218) 727-8380

Chemical and Biological Testing Services

**SAMPLE ANALYSIS REPORT****FOR VOLATILE ORGANIC COMPOUNDS (V.O.C.s)****Laboratory Information**Era Method: 9310  
Reference Method: MDH 465DEra Project #: 504214-3  
Chain of Custody #: 95136Analysis File I.D. c:\HPCHEM\1\DATA\1  
MAY04\011F0101**Sample Information**

Client: Accurate Environ. Testing

Sample Name: MW-3

Sample matrix: water

date collected: 4/26/95  
date analyzed: 5/4/95

Comments:

**Results**

Analyte	Amount	Units	PQL ug/L	Comment	Analyte	Amount	Units	PQL ug/L	Comment
dichlorodifluoromethane	<PQL	ug/L	0.9		1,3-dichlorobenzene	<PQL	ug/L	0.3	
chloromethane	<PQL	ug/L	0.9		1,4-dichlorobenzene	<PQL	ug/L	0.3	
vinyl chloride	<PQL	ug/L	0.3		1,2-dichlorobenzene	<PQL	ug/L	0.3	
bromomethane	<PQL	ug/L	0.3	A	1,2-dibromo-3-chloropropane	<PQL	ug/L	0.9	
chloroethane	<PQL	ug/L	0.3	A	1,2,4-trichlorobenzene	<PQL	ug/L	0.9	
trichlorofluoromethane	<PQL	ug/L	0.3	A	hexachlorobutadiene	<PQL	ug/L	0.9	
1,1-dichloroethane	<PQL	ug/L	0.3		1,2,3-trichlorobenzene	<PQL	ug/L	0.9	
methylene chloride	<PQL	ug/L	0.3						
trans-1,2-dichloroethane	<PQL	ug/L	0.3		dichlorofluoromethane	<PQL	ug/L	1.0	A
1,1-dichloroethane	<PQL	ug/L	0.3		trichlorotrifluoroethane	<PQL	ug/L	1.0	
2,2-dichloropropane	<PQL	ug/L	0.3		allyl chloride	<PQL	ug/L	1.0	
cis-1,2-dichloroethane	<PQL	ug/L	0.3						
chloroform	<PQL	ug/L	0.3		benzene		4.8 ug/L	0.3	
bromochloromethane	<PQL	ug/L	0.3		toluene		0.9 ug/L	0.3	
1,1,1-trichloroethane	<PQL	ug/L	0.3		ethyl benzene		0.9 ug/L	0.3	
1,1-dichloropropane	<PQL	ug/L	0.3		m-xylene + p-xylene		1.7 ug/L	0.3	
carbon tetrachloride	<PQL	ug/L	0.3		o-xylene	<PQL	ug/L	0.3	
1,2-dichloroethane		1.9 ug/L	0.3		styrene	<PQL	ug/L	0.3	
trichloroethane	<PQL	ug/L	0.3		isopropyl benzene		1.0 ug/L	0.3	
1,2-dichloropropane	<PQL	ug/L	0.3		n-propylbenzene	<PQL	ug/L	0.3	
bromodichloromethane	<PQL	ug/L	0.3		1,3,5-trimethylbenzene +	<PQL	ug/L	0.3	
dibromomethane	<PQL	ug/L	0.3		2-chlorotoluene				
cis-1,3-dichloropropane	<PQL	ug/L	0.3		tert-butylbenzene	<PQL	ug/L	0.3	
trans-1,3-dichloropropane	<PQL	ug/L	0.3		1,2,4-trimethylbenzene	<PQL	ug/L	0.3	
1,1,2-trichloroethane	<PQL	ug/L	0.3		sec-butylbenzene	<PQL	ug/L	0.3	
1,3-dichloropropane	<PQL	ug/L	0.3		p-isopropyltoluene	<PQL	ug/L	0.3	
tetrachloroethane	<PQL	ug/L	0.3		n-butylbenzene	<PQL	ug/L	0.3	
dibromochloromethane	<PQL	ug/L	0.3		naphthalene	<PQL	ug/L	0.9	
1,2-dibromoethane	<PQL	ug/L	0.3						
chlorobenzene	<PQL	ug/L	0.3		ethyl ether	<PQL	ug/L	5.	
1,1,1,2-tetrachloroethane	<PQL	ug/L	0.3		acetone	<PQL	ug/L	20.	A
bromoform	<PQL	ug/L	0.3		methyl tertiary butyl ether	<PQL	ug/L	5.	
1,1,2,2-tetrachloroethane	<PQL	ug/L	0.3		methyl ethyl ketone	<PQL	ug/L	5.	A
1,2,3-trichloropropane	<PQL	ug/L	0.3		tetrahydrofuran	<PQL	ug/L	5.	A
bromobenzene	<PQL	ug/L	0.3		methyl isobutyl ketone	<PQL	ug/L	5.	
2-chlorotoluene	<PQL	ug/L	0.3						
4-chlorotoluene	<PQL	ug/L	0.3						

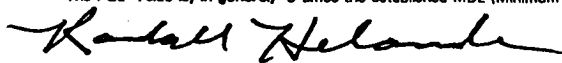
**COMMENTS**

A

The QC Check Standard analyzed with this sample failed our QC recovery requirements for these compounds.

PQL = Practical Quantitation Limit. This is an established quantitation limit which takes into account all the inherent method limitations related to routine sample analyses.

The PQL value is, in general, 3 times the established MDL (Minimum Detection Limit).

Randall Helander  
Project Manager





**Accurate Environmental Testing** 2231 Catlin Avenue #420 ♦ Superior WI 54880

PHONE: (715) 392-5844 ♦ FAX: (715) 394-7414 ♦ (800)TEST-AET

Bob Maslowksi  
Remediation Services Inc.  
102 S. 29th Avenue W., Suite 100  
Duluth, MN 55806

Chain of Custody # 95259  
Project Name: Lester Park Golf Course  
Client: City of Duluth  
Sampler Name: Gary A. Johnson

Collected on  
Received on  
DRO Preserved on  
DRO Extracted on  
DRO Analyzed on  
GROBTEX Analyzed on  
Sample Description  
Lab I.D.

8/11/95	8/11/95	8/11/95	8/11/95	
8/11/95	8/11/95	8/11/95	8/11/95	
Field	Field	NA	Field	
8/18/95	8/18/95	NA	8/18/95	
9/8/95	9/8/95	NA	9/8/95	
8/22/95	8/25/95	8/25/95	8/22/95	
MW-1	MW-2	MW-2 Duplicate	MW-3	
95259-01	95259-02	95259-03	95259-04	

Parameter	LOQ	WATER	WATER	WATER	WATER	
Temperature	NA	on ice	on ice	on ice	on ice	
Diesel Range Organics	100 ug/L	120 ug/L	710 ug/L	NA	160 ug/L	
Gasoline Range Organics	100 ug/L	< LOQ	7200 ug/L	7000 ug/L	< LOQ	
Benzene	5 ug/L	< LOQ	370 ug/L	380 ug/L	< LOQ	
Toluene	5 ug/L	< LOQ	< LOQ	< LOQ	< LOQ	
Ethylbenzene	5 ug/L	< LOQ	120 ug/L	120 ug/L	< LOQ	
Total Xylene	5 ug/L	< LOQ	< LOQ	< LOQ	< LOQ	
Internal Standard	NA	90%	92%	93%	83%	
Comments	none	none	none	none	none	

LOQ indicates that the limit of quantitation was not met in analysis.

NA implies that this parameter was not analyzed or not applicable to test run

Filled out by:

*Cynthia Coetz*

Date: 9/13/95 1:28 PM

Checked by:

*Dawn J. Peterson*

Date: 9/13/95

The following tests were performed according to the WI DRN specification listed in ch. NR 149 of the WI Adm. Code. WI DNR Certification # 816079330



2231 CATLIN SUITE 420  
SUPERIOR, WI 54880

## CHAIN OF CUSTODY RECORD AND REQUEST FOR ANALYSIS

TOLL FREE (800) TEST-AET  
LAB (715) 392-5844  
FAX (715) 394-7414

[illegible]





**Accurate Environmental Testing** 2231 Catlin Avenue #420 ♦ Superior WI 54880

PHONE: (715) 392-5844 ♦ FAX: (715) 394-7414 ♦ (800)TEST-AET

Bob Maslowksi  
Remediation Services Inc.  
102 S. 29th Avenue W., Suite 100  
Duluth, MN 55806

Chain of Custody # 95259  
Project Name: Lester Park Golf Course  
Client: City of Duluth  
Sampler Name: Gary A. Johnson

Collected on  
Received on  
DRO Preserved on  
DRO Extracted on  
DRO Analyzed on  
GROBTEX Analyzed on

Sample Description

Lab I.D.

8/11/95	8/11/95	8/11/95	8/11/95	
8/11/95	8/11/95	8/11/95	8/11/95	
Field	Field	NA	Field	
8/18/95	8/18/95	NA	8/18/95	
9/8/95	9/8/95	NA	9/8/95	
8/22/95	8/25/95	8/25/95	8/22/95	
MW-1	MW-2	MW-2 Duplicate	MW-3	
95259-01	95259-02	95259-03	95259-04	

Parameter	LOQ	WATER	WATER	WATER	WATER
Temperature	NA	on ice	on ice	on ice	on ice
Diesel Range Organics	100 ug/L	120 ug/L	710 ug/L	NA	160 ug/L
Gasoline Range Organics	100 ug/L	< LOQ	< LOQ	< LOQ	< LOQ
Benzene	5 ug/L	< LOQ	370 ug/L	380 ug/L	< LOQ
Toluene	5 ug/L	< LOQ	< LOQ	< LOQ	< LOQ
Ethylbenzene	5 ug/L	< LOQ	120 ug/L	120 ug/L	< LOQ
Total Xylene	5 ug/L	< LOQ	< LOQ	< LOQ	< LOQ
Internal Standard	NA	90%			
Comments	none	none			

LOQ indicates that the limit of quantitation was not met in analysis.  
NA implies that this parameter was not analyzed or not applicable to test run

Filled out by:

Checked by:

The following tests were performed according to the WI DRN :  
of the WI Adm. Code. WI DNR Certification # 816079330

*high*  
*MW-2*  
*Tetrahydrofuran*  
*Benzene*  
*Naphthalene*  
*MEK (1st Round)*





1126 North Front Street  
New Ulm, MN 56073

**Phone: (507) 354-8517**

**Wats: (800) 782-3557 Fax: (507) 359-1231**

**Nº 5371**

**WORK ORDER #**

Page: 1 of 1

Project Name/Number:

CODUPGC 95259

## CHAIN OF CUSTODY RECORD

**PLEASE DO NOT WRITE IN THE SHADED AREAS**

Report to: Accurate Environmental Testing

Address: 2231 Centline Ave, Suite 420  
Superior WI 54880

Phone: 715-392-5844 Fax: 715-392-5843

Invoice to: Accurate Environmental Testing

Address: 2231 Catlin Ave, Suite 420  
Superior WI 54880

Phone: 715-392-5844

Name of Sampler:

Gary Johnson

Representing:

RS T

[illegible]

Check all samples for Drinking water Detection limits.

	Transferred by:	Comments: (Sample Condition)	Date	Received by:	Comments: (Sample Condition)	Date	°C
			Time			Time	
1	<i>Dawn Peterson</i>	<i>on ice</i>	<i>8-14-95 1:00pm</i>	<i>Mary Lou Hemel</i>	<i>on ice</i>	<i>13 Aug 95 11:45 AM</i>	
2							
3							
4							
Disposed of By:				Disposal Comments:			





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NEW ULM, MN 56073-0249  
PHONE (507) 354-8517 WATS (800) 782-3557 FAX (507) 359-2890



**WE ARE AN EQUAL OPPORTUNITY EMPLOYER**

Report Date: 31 Aug 1995

Lab Number: 95-L20026

Work Order #: 22-499

Account #: 019099

JAY THOMPSON  
ACCURATE ENVIRONMENTAL  
2231 CATLIN AVE STE 420  
SUPERIOR WI 54880

Date Received: 15 Aug 1995

Date Sampled: 11 Aug 1995

Temperature at Receipt: ON ICE

Project Number: CODLPGC95259

Sample Description: 95259-01 MW-1

Analyte	Result	MDL	Method	Date Analyzed	Time Analyzed	Analyst
Lead, Dissolved	< 2 ug/L	2.0	239.2	8/30/95	5:00	TB

All data for this report has been approved by MVTL Laboratory Management.

PCA04-1533

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.





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**WE ARE AN EQUAL OPPORTUNITY EMPLOYER**

Report Date: 31 Aug 1995

Lab Number: 95-L20026

Work Order #: 22-499

Account #: 019099

JAY THOMPSON  
ACCURATE ENVIRONMENTAL  
2231 CATLIN AVE STE 420  
SUPERIOR WI 54880

Date Received: 15 Aug 1995

Date Sampled: 11 Aug 1995

Temperature at Receipt: ON ICE

Project Number: CODLPGC95259

EPA SW-846 Method 8021 MDH 465E

VOC Date Analyzed: 19 Aug 1995

VOC Dilution Factor: 1

Sample Description: 95259-01 MW-1

VOLATILE ORGANICS

	Result	Units	RL	Analyst
=====	=====	=====	=====	=====
Chloroethane	< 0.6	ug/L	0.6	JO
Chloromethane	< 1.0	ug/L	1.0	JO
Bromomethane	< 1.0	ug/L	1.0	JO
Dichlorodifluoromethane	< 0.5	ug/L	0.5	JO
Vinyl Chloride	< 0.3	ug/L	0.3	JO
Methylene Chloride	< 1.0	ug/L	1.0	JO
Trichlorofluoromethane	< 1.0	ug/L	1.0	JO
1,1-Dichloroethene	< 1.0	ug/L	1.0	JO
1,1-Dichloroethane	< 0.3	ug/L	0.3	JO
trans-1,2-Dichloroethene	< 0.6	ug/L	0.6	JO
Chloroform	< 0.8	ug/L	0.8	JO
1,2-Dichloroethane	0.9	ug/L	0.6	JO
1,1,1-Trichloroethane	< 0.8	ug/L	0.8	JO
Carbon Tetrachloride	< 0.9	ug/L	0.9	JO
Bromodichloromethane	< 0.6	ug/L	0.6	JO
1,2-Dichloropropane	< 0.9	ug/L	0.9	JO
trans-1,3-Dichloropropene	< 0.5	ug/L	0.5	JO
1,1,2-Trichloroethylene	< 0.7	ug/L	0.7	JO
Chlorodibromomethane/Dibromochloromethan	< 0.7	ug/L	0.7	JO
1,1,2-Trichloroethane	< 0.5	ug/L	0.5	JO
cis-1,3-Dichloropropene	< 0.5	ug/L	0.5	JO
Bromoform	< 1.0	ug/L	1.0	JO
1,1,2,2-Tetrachloroethane	< 0.4	ug/L	0.4	JO
Tetrachloroethene	< 0.5	ug/L	0.5	JO
Chlorobenzene	< 0.3	ug/L	0.3	JO
Benzene	< 0.5	ug/L	0.5	JO

RL = Reporting Limit

All data for this report has been approved by MVTL Laboratory Management.

PCA04-1534





# LABORATORIES, Inc.

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**WE ARE AN EQUAL OPPORTUNITY EMPLOYER**

Report Date: 31 Aug 1995

Lab Number: 95-L20026

Work Order #: 22-499

Account #: 019099

JAY THOMPSON  
ACCURATE ENVIRONMENTAL  
2231 CATLIN AVE STE 420  
SUPERIOR WI 54880

Date Received: 15 Aug 1995

Date Sampled: 11 Aug 1995

Temperature at Receipt: ON ICE

Project Number: CODLPGC95259

EPA SW-846 Method 8021 MDH 465E

VOC Date Analyzed: 19 Aug 1995

VOC Dilution Factor: 1

Sample Description: 95259-01 MW-1  
VOLATILE ORGANICS

	Result	Units	RL	Analyst
=====	=====	=====	=====	=====
Toluene	< 0.5	ug/L	0.5	JO
Ethyl Benzene	< 0.5	ug/L	0.5	JO
1,2-Dichlorobenzene	< 0.8	ug/L	0.8	JO
1,3-Dichlorobenzene	< 0.5	ug/L	0.5	JO
1,4-Dichlorobenzene	< 0.6	ug/L	0.6	JO
cis-1,2-Dichloroethene	< 0.5	ug/L	0.5	JO
1,3-Dichloropropane	< 0.5	ug/L	0.5	JO
1,2,3-Trichloropropane	< 0.4	ug/L	0.4	JO
Allyl Chloride	< 1.0	ug/L	1.0	JO
1,2-Dibromoethane	< 1.0	ug/L	1.0	JO
Methyl Ethyl Ketone	< 5.0	ug/L	5.0	JO
Methyl Isobutyl Ketone	< 2.0	ug/L	2.0	JO
Tetrahydrofuran	< 5.0	ug/L	5.0	JO
m-Xylene and p-Xylene	< 1.0	ug/L	1.0	JO
o-Xylene	< 0.5	ug/L	0.5	JO
Isopropylbenzene	< 0.5	ug/L	0.5	JO
1,1,1,2-Tetrachloroethane	< 0.5	ug/L	0.5	JO
1,1-Dichloropropene	< 0.5	ug/L	0.5	JO
Dichlorofluoromethane	< 0.5	ug/L	0.5	JO
1,1,2-Trichlorotrifluoroethane	< 1.0	ug/L	1.0	JO
Ethyl Ether	< 1.3	ug/L	1.3	JO
Acetone	< 5.0	ug/L	5.0	JO
Dibromomethane	< 0.6	ug/L	0.6	JO
2,2-Dichloropropane	< 1.6	ug/L	1.6	JO
Bromochloromethane	< 0.5	ug/L	0.5	JO
Methyl tert-butyl Ether	< 1.0	ug/L	1.0	JO

RL = Reporting Limit

All data for this report has been approved by MVTL Laboratory Management.

PCA04-1535





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**WE ARE AN EQUAL OPPORTUNITY EMPLOYER**

Report Date: 31 Aug 1995

Lab Number: 95-L20026

Work Order #: 22-499

Account #: 019099

JAY THOMPSON

ACCURATE ENVIRONMENTAL

2231 CATLIN AVE STE 420

SUPERIOR WI 54880

Date Received: 15 Aug 1995

Date Sampled: 11 Aug 1995

Temperature at Receipt: ON ICE

Project Number: CODLPGC95259

EPA SW-846 Method 8021 MDH 465E

VOC Date Analyzed: 19 Aug 1995

VOC Dilution Factor: 1

Sample Description: 95259-01 MW-1

VOLATILE ORGANICS

=====

Result	Units	RL	Analyst
=====	=====	=====	=====
Styrene	< 0.5 ug/L	0.5	JO
n-Propylbenzene	< 0.5 ug/L	0.5	JO
Bromobenzene	< 1.0 ug/L	1.0	JO
2-Chlorotoluene	< 0.4 ug/L	0.4	JO
1,3,5-Trimethylbenzene	< 0.5 ug/L	0.5	JO
4-Chlorotoluene	< 0.4 ug/L	0.4	JO
t-Butylbenzene	< 0.6 ug/L	0.6	JO
1,2,4-Trimethylbenzene	< 0.5 ug/L	0.5	JO
sec-Butylbenzene	< 0.4 ug/L	0.4	JO
p-Isopropyltoluene	< 0.4 ug/L	0.4	JO
n-Butylbenzene	< 0.5 ug/L	0.5	JO
1,2-Dibromo-3-chloropropane	< 1.0 ug/L	1.0	JO
1,2,4-Trichlorobenzene	< 0.5 ug/L	0.5	JO
Hexachlorobutadiene	< 1.0 ug/L	1.0	JO
Naphthalene	< 0.6 ug/L	0.6	JO
1,2,3-Trichlorobenzene	< 1.0 ug/L	1.0	JO

RL = Reporting Limit

All data for this report has been approved by MVTL Laboratory Management.

PCA04-1536

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.





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**WE ARE AN EQUAL OPPORTUNITY EMPLOYER**

Report Date: 31 Aug 1995

Lab Number: 95-L20027

Work Order #: 22-499

Account #: 019099

JAY THOMPSON  
ACCURATE ENVIRONMENTAL  
2231 CATLIN AVE STE 420  
SUPERIOR WI 54880

Date Received: 15 Aug 1995

Date Sampled: 11 Aug 1995

Temperature at Receipt: ON ICE

Project Number: CODLPGC95259

Sample Description: 95259-02 MW-2

Analyte	Result	MDL	Method	Date Analyzed	Time Analyzed	Analyst
Lead, Dissolved	2.4 ug/L	2.0	239.2	8/30/95	5:00	TB

All data for this report has been approved by MVTL Laboratory Management.

PCA04-1537

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.





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**WE ARE AN EQUAL OPPORTUNITY EMPLOYER**

Report Date: 31 Aug 1995

Lab Number: 95-L20027

Work Order #: 22-499

Account #: 019099

JAY THOMPSON  
ACCURATE ENVIRONMENTAL  
2231 CATLIN AVE STE 420  
SUPERIOR WI 54880

Date Received: 15 Aug 1995

Date Sampled: 11 Aug 1995

Temperature at Receipt: ON ICE

Project Number: CODLPGC95259

EPA SW-846 Method 8021 MDH 465E

VOC Date Analyzed: 23 Aug 1995

VOC Dilution Factor: 10

Sample Description: 95259-02 MW-2  
VOLATILE ORGANICS

Sample Description	Result	Units	RL	Analyst
Chloroethane	< 6.0	ug/L	6.0	DWR
Chloromethane	< 10.0	ug/L	10.0	DWR
Bromomethane	< 10.0	ug/L	10.0	DWR
Dichlorodifluoromethane	< 5.0	ug/L	5.0	DWR
Vinyl Chloride	< 3.0	ug/L	3.0	DWR
Methylene Chloride	< 10.0	ug/L	10.0	DWR
Trichlorofluoromethane	< 10.0	ug/L	10.0	DWR
1,1-Dichloroethene	< 10.0	ug/L	10.0	DWR
1,1-Dichloroethane	< 3.0	ug/L	3.0	DWR
trans-1,2-Dichloroethene	< 6.0	ug/L	6.0	DWR
Chloroform	< 8.0	ug/L	8.0	DWR
1,2-Dichloroethane	12.0	ug/L	6.0	DWR
1,1,1-Trichloroethane	< 8.0	ug/L	8.0	DWR
Carbon Tetrachloride	< 9.0	ug/L	9.0	DWR
Bromodichloromethane	< 6.0	ug/L	6.0	DWR
1,2-Dichloropropane	< 9.0	ug/L	9.0	DWR
trans-1,3-Dichloropropene	< 5.0	ug/L	5.0	DWR
1,1,2-Trichloroethylene	< 7.0	ug/L	7.0	DWR
Chlorodibromomethane/Dibromochloromethane	< 7.0	ug/L	7.0	DWR
1,1,2-Trichloroethane	< 5.0	ug/L	5.0	DWR
cis-1,3-Dichloropropene	< 5.0	ug/L	5.0	DWR
Bromoform	< 10.0	ug/L	10.0	DWR
1,1,2,2-Tetrachloroethane	< 4.0	ug/L	4.0	DWR
Tetrachloroethene	< 5.0	ug/L	5.0	DWR
Chlorobenzene	< 3.0	ug/L	3.0	DWR
Benzene	360.0	ug/L	5.0	DWR

RL = Reporting Limit

All data for this report has been approved by MVTL Laboratory Management.

PCA04-1538





# LABORATORIES, Inc.

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**WE ARE AN EQUAL OPPORTUNITY EMPLOYER**

Report Date: 31 Aug 1995

Lab Number: 95-L20027

Work Order #: 22-499

Account #: 019099

JAY THOMPSON  
ACCURATE ENVIRONMENTAL  
2231 CATLIN AVE STE 420  
SUPERIOR WI 54880

Date Received: 15 Aug 1995

Date Sampled: 11 Aug 1995

Temperature at Receipt: ON ICE

Project Number: CODLPGC95259

EPA SW-846 Method 8021 MDH 465E

VOC Date Analyzed: 23 Aug 1995

VOC Dilution Factor: 10

Sample Description: 95259-02 MW-2  
VOLATILE ORGANICS

Sample Description	Result	Units	RL	Analyst
=====	=====	=====	=====	=====
Toluene	< 5.0	ug/L	5.0	DWR
Ethyl Benzene	170.0	ug/L	5.0	DWR
1,2-Dichlorobenzene	< 8.0	ug/L	8.0	DWR
1,3-Dichlorobenzene	< 5.0	ug/L	5.0	DWR
1,4-Dichlorobenzene	< 6.0	ug/L	6.0	DWR
cis-1,2-Dichloroethene	< 5.0	ug/L	5.0	DWR
1,3-Dichloropropane	< 5.0	ug/L	5.0	DWR
1,2,3-Trichloropropane	< 4.0	ug/L	4.0	DWR
Allyl Chloride	< 10.0	ug/L	10.0	DWR
1,2-Dibromoethane	< 10.0	ug/L	10.0	DWR
Methyl Ethyl Ketone	< 50.0	ug/L	50.0	DWR
Methyl Isobutyl Ketone	< 20.0	ug/L	20.0	DWR
Tetrahydrofuran	200.0	ug/L	50.0	DWR
m-Xylene and p-Xylene	260.0	ug/L	10.0	DWR
o-Xylene	42.0	ug/L	5.0	DWR
Isopropylbenzene	25.0	ug/L	5.0	DWR
1,1,1,2-Tetrachloroethane	< 5.0	ug/L	5.0	DWR
1,1-Dichloropropene	< 5.0	ug/L	5.0	DWR
Dichlorofluoromethane	< 5.0	ug/L	5.0	DWR
1,1,2-Trichlorotrifluoroethane	< 10.0	ug/L	10.0	DWR
Ethyl Ether	135.0	ug/L	13.0	DWR
Acetone	< 50.0	ug/L	50.0	DWR
Dibromomethane	< 6.0	ug/L	6.0	DWR
2,2-Dichloropropane	< 16.0	ug/L	16.0	DWR
Bromochloromethane	< 5.0	ug/L	5.0	DWR
Methyl tert-butyl Ether	< 10.0	ug/L	10.0	DWR

RL = Reporting Limit

All data for this report has been approved by MVTL Laboratory Management.

PCA04-1539

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NEW ULM, MN 56073-0249  
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**WE ARE AN EQUAL OPPORTUNITY EMPLOYER**

JAY THOMPSON  
ACCURATE ENVIRONMENTAL  
2231 CATLIN AVE STE 420  
SUPERIOR WI 54880

Report Date: 31 Aug 1995

Lab Number: 95-L20027  
Work Order #: 22-499  
Account #: 019099

Date Received: 15 Aug 1995  
Date Sampled: 11 Aug 1995

Temperature at Receipt: ON ICE  
Project Number: CODLPGC95259

EPA SW-846 Method 8021 MDH 465E

VOC Date Analyzed: 23 Aug 1995  
VOC Dilution Factor: 10

Sample Description: 95259-02 MW-2  
VOLATILE ORGANICS

	Result	Units	RL	Analyst
=====	=====	=====	=====	=====
Styrene	< 5.0	ug/L	5.0	DWR
n-Propylbenzene	30.0	ug/L	5.0	DWR
Bromobenzene	< 10.0	ug/L	10.0	DWR
2-Chlorotoluene	< 4.0	ug/L	4.0	DWR
1,3,5-Trimethylbenzene	70.0	ug/L	5.0	DWR
4-Chlorotoluene	< 4.0	ug/L	4.0	DWR
t-Butylbenzene	< 6.0	ug/L	6.0	DWR
1,2,4-Trimethylbenzene	100.0	ug/L	5.0	DWR
sec-Butylbenzene	5.0	ug/L	4.0	DWR
p-Isopropyltoluene	< 4.0	ug/L	4.0	DWR
n-Butylbenzene	20.0	ug/L	5.0	DWR
1,2-Dibromo-3-chloropropane	< 10.0	ug/L	10.0	DWR
1,2,4-Trichlorobenzene	< 5.0	ug/L	5.0	DWR
Hexachlorobutadiene	< 10.0	ug/L	10.0	DWR
Naphthalene	100.0	ug/L	6.0	DWR
1,2,3-Trichlorobenzene	< 10.0	ug/L	10.0	DWR

RL = Reporting Limit

All data for this report has been approved by MVTL Laboratory Management.

PCA04-1540





# LABORATORIES, Inc.

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**WE ARE AN EQUAL OPPORTUNITY EMPLOYER**

Report Date: 31 Aug 1995

Lab Number: 95-L20028

Work Order #: 22-499

Account #: 019099

JAY THOMPSON

ACCURATE ENVIRONMENTAL

2231 CATLIN AVE STE 420

SUPERIOR WI 54880

Date Received: 15 Aug 1995

Date Sampled: 11 Aug 1995

Temperature at Receipt: ON ICE

Project Number: CODLPGC95259

EPA SW-846 Method 8021 MDH 465E

VOC Date Analyzed: 23 Aug 1995

VOC Dilution Factor: 10

Sample Description: 95259-03 MW-2 DUPLICATE  
VOLATILE ORGANICS

Result	Units	RL	Analyst
=====	=====	=====	=====
Chloroethane	< 6.0 ug/L	6.0	DWR
Chloromethane	< 10.0 ug/L	10.0	DWR
Bromomethane	< 10.0 ug/L	10.0	DWR
Dichlorodifluoromethane	< 5.0 ug/L	5.0	DWR
Vinyl Chloride	< 3.0 ug/L	3.0	DWR
Methylene Chloride	< 10.0 ug/L	10.0	DWR
Trichlorofluoromethane	< 10.0 ug/L	10.0	DWR
1,1-Dichloroethene	< 10.0 ug/L	10.0	DWR
1,1-Dichloroethane	< 3.0 ug/L	3.0	DWR
trans-1,2-Dichloroethene	< 6.0 ug/L	6.0	DWR
Chloroform	< 8.0 ug/L	8.0	DWR
1,2-Dichloroethane	11.0 ug/L	6.0	DWR
1,1,1-Trichloroethane	< 8.0 ug/L	8.0	DWR
Carbon Tetrachloride	< 9.0 ug/L	9.0	DWR
Bromodichloromethane	< 6.0 ug/L	6.0	DWR
1,2-Dichloropropane	< 9.0 ug/L	9.0	DWR
trans-1,3-Dichloropropene	< 5.0 ug/L	5.0	DWR
1,1,2-Trichloroethylene	< 7.0 ug/L	7.0	DWR
Chlorodibromomethane/Dibromochloromethane	< 7.0 ug/L	7.0	DWR
1,1,2-Trichloroethane	< 5.0 ug/L	5.0	DWR
cis-1,3-Dichloropropene	8.7 ug/L	5.0	DWR
Bromoform	< 10.0 ug/L	10.0	DWR
1,1,2,2-Tetrachloroethane	< 4.0 ug/L	4.0	DWR
Tetrachloroethene	< 5.0 ug/L	5.0	DWR
Chlorobenzene	< 3.0 ug/L	3.0	DWR
Benzene	360.0 ug/L	5.0	DWR

RL = Reporting Limit

All data for this report has been approved by MVTL Laboratory Management.

PCA04-1541





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**WE ARE AN EQUAL OPPORTUNITY EMPLOYER**

Report Date: 31 Aug 1995

Lab Number: 95-L20028

Work Order #: 22-499

Account #: 019099

JAY THOMPSON  
ACCURATE ENVIRONMENTAL  
2231 CATLIN AVE STE 420  
SUPERIOR WI 54880

Date Received: 15 Aug 1995

Date Sampled: 11 Aug 1995

Temperature at Receipt: ON ICE

Project Number: CODLPGC95259

EPA SW-846 Method 8021 MDH 465E

VOC Date Analyzed: 23 Aug 1995

VOC Dilution Factor: 10

Sample Description: 95259-03 MW-2 DUPLICATE  
VOLATILE ORGANICS

Result	Units	RL	Analyst
Toluene	< 5.0 ug/L	5.0	DWR
Ethyl Benzene	160.0 ug/L	5.0	DWR
1,2-Dichlorobenzene	< 8.0 ug/L	8.0	DWR
1,3-Dichlorobenzene	< 5.0 ug/L	5.0	DWR
1,4-Dichlorobenzene	< 6.0 ug/L	6.0	DWR
cis-1,2-Dichloroethene	< 5.0 ug/L	5.0	DWR
1,3-Dichloropropane	< 5.0 ug/L	5.0	DWR
1,2,3-Trichloropropane	< 4.0 ug/L	4.0	DWR
Allyl Chloride	< 10.0 ug/L	10.0	DWR
1,2-Dibromoethane	< 10.0 ug/L	10.0	DWR
Methyl Ethyl Ketone	< 50.0 ug/L	50.0	DWR
Methyl Isobutyl Ketone	< 20.0 ug/L	20.0	DWR
Tetrahydrofuran	< 50.0 ug/L	50.0	DWR
m-Xylene and p-Xylene	240.0 ug/L	10.0	DWR
o-Xylene	40.0 ug/L	5.0	DWR
Isopropylbenzene	23.0 ug/L	5.0	DWR
1,1,1,2-Tetrachloroethane	< 5.0 ug/L	5.0	DWR
1,1-Dichloropropene	< 5.0 ug/L	5.0	DWR
Dichlorofluoromethane	< 5.0 ug/L	5.0	DWR
1,1,2-Trichlorotrifluoroethane	< 10.0 ug/L	10.0	DWR
Ethyl Ether	160.0 ug/L	13.0	DWR
Acetone	< 50.0 ug/L	50.0	DWR
Dibromomethane	< 6.0 ug/L	6.0	DWR
2,2-Dichloropropane	< 16.0 ug/L	16.0	DWR
Bromochloromethane	< 5.0 ug/L	5.0	DWR
Methyl tert-butyl Ether	< 10.0 ug/L	10.0	DWR

RL = Reporting Limit

All data for this report has been approved by MVTL Laboratory Management.

PCA04-1542





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**WE ARE AN EQUAL OPPORTUNITY EMPLOYER**

Report Date: 31 Aug 1995

Lab Number: 95-L20028

Work Order #: 22-499

Account #: 019099

JAY THOMPSON  
ACCURATE ENVIRONMENTAL  
2231 CATLIN AVE STE 420  
SUPERIOR WI 54880

Date Received: 15 Aug 1995

Date Sampled: 11 Aug 1995

Temperature at Receipt: ON ICE

Project Number: CODLPGC95259

EPA SW-846 Method 8021 MDH 465E

Sample Description: 95259-03 MW-2 DUPLICATE  
VOLATILE ORGANICS

VOC Date Analyzed: 23 Aug 1995  
VOC Dilution Factor: 10

Styrene	< 5.0	ug/L	5.0	DWR
n-Propylbenzene	27.0	ug/L	5.0	DWR
Bromobenzene	< 10.0	ug/L	10.0	DWR
2-Chlorotoluene	< 4.0	ug/L	4.0	DWR
1,3,5-Trimethylbenzene	60.0	ug/L	5.0	DWR
4-Chlorotoluene	< 4.0	ug/L	4.0	DWR
t-Butylbenzene	< 6.0	ug/L	6.0	DWR
1,2,4-Trimethylbenzene	90.0	ug/L	5.0	DWR
sec-Butylbenzene	4.0	ug/L	4.0	DWR
p-Isopropyltoluene	< 4.0	ug/L	4.0	DWR
n-Butylbenzene	20.0	ug/L	5.0	DWR
1,2-Dibromo-3-chloropropane	< 10.0	ug/L	10.0	DWR
1,2,4-Trichlorobenzene	< 5.0	ug/L	5.0	DWR
Hexachlorobutadiene	< 10.0	ug/L	10.0	DWR
Naphthalene	90.0	ug/L	6.0	DWR
1,2,3-Trichlorobenzene	< 10.0	ug/L	10.0	DWR

RL = Reporting Limit

All data for this report has been approved by MVTL Laboratory Management.

PCA04-1543

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.





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NEW ULM, MN 56073-0249  
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**WE ARE AN EQUAL OPPORTUNITY EMPLOYER**

Report Date: 31 Aug 1995

Lab Number: 95-L20029

Work Order #: 22-499

Account #: 019099

JAY THOMPSON  
ACCURATE ENVIRONMENTAL  
2231 CATLIN AVE STE 420  
SUPERIOR WI 54880

Date Received: 15 Aug 1995

Date Sampled: 11 Aug 1995

Temperature at Receipt: ON ICE

Project Number: CODLPGC95259

Sample Description: 95259-04 MW-3

Analyte	Result	MDL	Method	Date Analyzed	Time Analyzed	Analyst
Lead, Dissolved	< 2 ug/L	2.0	239.2	8/30/95	5:00	TB

All data for this report has been approved by MVTL Laboratory Management.

PCA04-1544

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.





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**WE ARE AN EQUAL OPPORTUNITY EMPLOYER**

Report Date: 31 Aug 1995

Lab Number: 95-L20029

Work Order #: 22-499

Account #: 019099

JAY THOMPSON  
ACCURATE ENVIRONMENTAL  
2231 CATLIN AVE STE 420  
SUPERIOR WI 54880

Date Received: 15 Aug 1995

Date Sampled: 11 Aug 1995

Temperature at Receipt: ON ICE

Project Number: CODLPGC95259

EPA SW-846 Method 8021 MDH 465E

VOC Date Analyzed: 18 Aug 1995

VOC Dilution Factor: 1

Sample Description: 95259-04 MW-3

VOLATILE ORGANICS

	Result	Units	RL	Analyst
=====	=====	=====	=====	=====
Chloroethane	< 0.6	ug/L	0.6	JO
Chloromethane	< 1.0	ug/L	1.0	JO
Bromomethane	< 1.0	ug/L	1.0	JO
Dichlorodifluoromethane	< 0.5	ug/L	0.5	JO
Vinyl Chloride	< 0.3	ug/L	0.3	JO
Methylene Chloride	< 1.0	ug/L	1.0	JO
Trichlorofluoromethane	< 1.0	ug/L	1.0	JO
1,1-Dichloroethene	< 1.0	ug/L	1.0	JO
1,1-Dichloroethane	< 0.3	ug/L	0.3	JO
trans-1,2-Dichloroethene	< 0.6	ug/L	0.6	JO
Chloroform	< 0.8	ug/L	0.8	JO
1,2-Dichloroethane	4.4	ug/L	0.6	JO
1,1,1-Trichloroethane	< 0.8	ug/L	0.8	JO
Carbon Tetrachloride	< 0.9	ug/L	0.9	JO
Bromodichloromethane	< 0.6	ug/L	0.6	JO
1,2-Dichloropropane	< 0.9	ug/L	0.9	JO
trans-1,3-Dichloropropene	< 0.5	ug/L	0.5	JO
1,1,2-Trichloroethylene	< 0.7	ug/L	0.7	JO
Chlorodibromomethane/Dibromochloromethane	< 0.7	ug/L	0.7	JO
1,1,2-Trichloroethane	< 0.5	ug/L	0.5	JO
cis-1,3-Dichloropropene	< 0.5	ug/L	0.5	JO
Bromoform	< 1.0	ug/L	1.0	JO
1,1,2,2-Tetrachloroethane	< 0.4	ug/L	0.4	JO
Tetrachloroethene	< 0.5	ug/L	0.5	JO
Chlorobenzene	< 0.3	ug/L	0.3	JO
Benzene	2.1	ug/L	0.5	JO

RL = Reporting Limit

All data for this report has been approved by MVTL Laboratory Management.

PCA04-1545





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**WE ARE AN EQUAL OPPORTUNITY EMPLOYER**

Report Date: 31 Aug 1995

Lab Number: 95-L20029

Work Order #: 22-499

Account #: 019099

JAY THOMPSON  
ACCURATE ENVIRONMENTAL  
2231 CATLIN AVE STE 420  
SUPERIOR WI 54880

Date Received: 15 Aug 1995

Date Sampled: 11 Aug 1995

Temperature at Receipt: ON ICE  
Project Number: CODLPGC95259

EPA SW-846 Method 8021 MDH 465E

VOC Date Analyzed: 18 Aug 1995

VOC Dilution Factor: 1

Sample Description: 95259-04 MW-3

VOLATILE ORGANICS

	Result	Units	RL	Analyst
=====	=====	=====	=====	=====
Toluene	< 0.5	ug/L	0.5	JO
Ethyl Benzene	< 0.5	ug/L	0.5	JO
1,2-Dichlorobenzene	< 0.8	ug/L	0.8	JO
1,3-Dichlorobenzene	< 0.5	ug/L	0.5	JO
1,4-Dichlorobenzene	< 0.6	ug/L	0.6	JO
cis-1,2-Dichloroethene	< 0.5	ug/L	0.5	JO
1,3-Dichloropropane	< 0.5	ug/L	0.5	JO
1,2,3-Trichloropropane	< 0.4	ug/L	0.4	JO
Allyl Chloride	< 1.0	ug/L	1.0	JO
1,2-Dibromoethane	< 1.0	ug/L	1.0	JO
Methyl Ethyl Ketone	< 5.0	ug/L	5.0	JO
Methyl Isobutyl Ketone	< 2.0	ug/L	2.0	JO
Tetrahydrofuran	< 5.0	ug/L	5.0	JO
m-Xylene and p-Xylene	< 1.0	ug/L	1.0	JO
o-Xylene	< 0.5	ug/L	0.5	JO
Isopropylbenzene	< 0.5	ug/L	0.5	JO
1,1,1,2-Tetrachloroethane	< 0.5	ug/L	0.5	JO
1,1-Dichloropropene	< 0.5	ug/L	0.5	JO
Dichlorofluoromethane	< 0.5	ug/L	0.5	JO
1,1,2-Trichlorotrifluoroethane	< 1.0	ug/L	1.0	JO
Ethyl Ether	< 1.3	ug/L	1.3	JO
Acetone	< 5.0	ug/L	5.0	JO
Dibromomethane	< 0.6	ug/L	0.6	JO
2,2-Dichloropropane	< 1.6	ug/L	1.6	JO
Bromochloromethane	< 0.5	ug/L	0.5	JO
Methyl tert-butyl Ether	< 1.0	ug/L	1.0	JO

RL = Reporting Limit

All data for this report has been approved by MVTL Laboratory Management.

PCA04-1546





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NEW ULM, MN 56073-0249  
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**WE ARE AN EQUAL OPPORTUNITY EMPLOYER**

Report Date: 31 Aug 1995

Lab Number: 95-L20029

Work Order #: 22-499

Account #: 019099

JAY THOMPSON  
ACCURATE ENVIRONMENTAL  
2231 CATLIN AVE STE 420  
SUPERIOR WI 54880

Date Received: 15 Aug 1995

Date Sampled: 11 Aug 1995

Temperature at Receipt: ON ICE

Project Number: CODLPGC95259

EPA SW-846 Method 8021 MDH 465E

VOC Date Analyzed: 18 Aug 1995

VOC Dilution Factor: 1

Sample Description: 95259-04 MW-3  
VOLATILE ORGANICS

Sample Description	Result	Units	RL	Analyst
Styrene	< 0.5	ug/L	0.5	JO
n-Propylbenzene	< 0.5	ug/L	0.5	JO
Bromobenzene	< 1.0	ug/L	1.0	JO
2-Chlorotoluene	< 0.4	ug/L	0.4	JO
1,3,5-Trimethylbenzene	< 0.5	ug/L	0.5	JO
4-Chlorotoluene	< 0.4	ug/L	0.4	JO
t-Butylbenzene	< 0.6	ug/L	0.6	JO
1,2,4-Trimethylbenzene	< 0.5	ug/L	0.5	JO
sec-Butylbenzene	< 0.4	ug/L	0.4	JO
p-Isopropyltoluene	< 0.4	ug/L	0.4	JO
n-Butylbenzene	< 0.5	ug/L	0.5	JO
1,2-Dibromo-3-chloropropane	< 1.0	ug/L	1.0	JO
1,2,4-Trichlorobenzene	< 0.5	ug/L	0.5	JO
Hexachlorobutadiene	< 1.0	ug/L	1.0	JO
Naphthalene	0.7	ug/L	0.6	JO
1,2,3-Trichlorobenzene	< 1.0	ug/L	1.0	JO

RL = Reporting Limit

All data for this report has been approved by MVTL Laboratory Management.

PCA04-1547





# LABORATORIES, Inc.

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JAY THOMPSON  
ACCURATE ENVIRONMENTAL  
2231 CATLIN AVE STE 420  
SUPERIOR WI 54880

Report Date: 31 Aug 1995

Lab Number: 95-L20030  
Work Order #: 22-499  
Account #: 019099

Date Received: 15 Aug 1995  
Date Sampled: 11 Aug 1995

Temperature at Receipt: ON ICE  
Project Number: CODLPGC95259

EPA SW-846 Method 8021 MDH 465E

VOC Date Analyzed: 17 Aug 1995  
VOC Dilution Factor: 1

Sample Description: 95259-05 TRIP BLANK  
VOLATILE ORGANICS

	Result	Units	RL	Analyst
=====	=====	=====	=====	=====
Chloroethane	< 0.6	ug/L	0.6	JO
Chloromethane	< 1.0	ug/L	1.0	JO
Bromomethane	< 1.0	ug/L	1.0	JO
Dichlorodifluoromethane	< 0.5	ug/L	0.5	JO
Vinyl Chloride	< 0.3	ug/L	0.3	JO
Methylene Chloride	< 1.0	ug/L	1.0	JO
Trichlorofluoromethane	< 1.0	ug/L	1.0	JO
1,1-Dichloroethene	< 1.0	ug/L	1.0	JO
1,1-Dichloroethane	< 0.3	ug/L	0.3	JO
trans-1,2-Dichloroethene	< 0.6	ug/L	0.6	JO
Chloroform	< 0.8	ug/L	0.8	JO
1,2-Dichloroethane	2.3	ug/L	0.6	JO
1,1,1-Trichloroethane	< 0.8	ug/L	0.8	JO
Carbon Tetrachloride	< 0.9	ug/L	0.9	JO
Bromodichloromethane	< 0.6	ug/L	0.6	JO
1,2-Dichloropropane	< 0.9	ug/L	0.9	JO
trans-1,3-Dichloropropene	< 0.5	ug/L	0.5	JO
1,1,2-Trichloroethylene	< 0.7	ug/L	0.7	JO
Chlorodibromomethane/Dibromochloromethane	< 0.7	ug/L	0.7	JO
1,1,2-Trichloroethane	< 0.5	ug/L	0.5	JO
cis-1,3-Dichloropropene	< 0.5	ug/L	0.5	JO
Bromoform	< 1.0	ug/L	1.0	JO
1,1,2,2-Tetrachloroethane	< 0.4	ug/L	0.4	JO
Tetrachloroethene	< 0.5	ug/L	0.5	JO
Chlorobenzene	< 0.3	ug/L	0.3	JO
Benzene	< 0.5	ug/L	0.5	JO

RL = Reporting Limit

All data for this report has been approved by MVTL Laboratory Management.

PCA04-1548





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**WE ARE AN EQUAL OPPORTUNITY EMPLOYER**

Report Date: 31 Aug 1995

Lab Number: 95-L20030

Work Order #: 22-499

Account #: 019099

JAY THOMPSON  
ACCURATE ENVIRONMENTAL  
2231 CATLIN AVE STE 420  
SUPERIOR WI 54880

Date Received: 15 Aug 1995

Date Sampled: 11 Aug 1995

Temperature at Receipt: ON ICE

Project Number: CODLPGC95259

EPA SW-846 Method 8021 MDH 465E

VOC Date Analyzed: 17 Aug 1995

VOC Dilution Factor: 1

Sample Description: 95259-05 TRIP BLANK  
VOLATILE ORGANICS

Sample Description	Result	Units	RL	Analyst
=====	=====	=====	=====	=====
Toluene	< 0.5	ug/L	0.5	JO
Ethyl Benzene	< 0.5	ug/L	0.5	JO
1,2-Dichlorobenzene	< 0.8	ug/L	0.8	JO
1,3-Dichlorobenzene	< 0.5	ug/L	0.5	JO
1,4-Dichlorobenzene	< 0.6	ug/L	0.6	JO
cis-1,2-Dichloroethene	< 0.5	ug/L	0.5	JO
1,3-Dichloropropane	< 0.5	ug/L	0.5	JO
1,2,3-Trichloropropane	< 0.4	ug/L	0.4	JO
Allyl Chloride	< 1.0	ug/L	1.0	JO
1,2-Dibromoethane	< 1.0	ug/L	1.0	JO
Methyl Ethyl Ketone	< 5.0	ug/L	5.0	JO
Methyl Isobutyl Ketone	< 2.0	ug/L	2.0	JO
Tetrahydrofuran	< 5.0	ug/L	5.0	JO
m-Xylene and p-Xylene	< 1.0	ug/L	1.0	JO
o-Xylene	< 0.5	ug/L	0.5	JO
Isopropylbenzene	< 0.5	ug/L	0.5	JO
1,1,1,2-Tetrachloroethane	< 0.5	ug/L	0.5	JO
1,1-Dichloropropene	< 0.5	ug/L	0.5	JO
Dichlorofluoromethane	< 0.5	ug/L	0.5	JO
1,1,2-Trichlorotrifluoroethane	< 1.0	ug/L	1.0	JO
Ethyl Ether	< 1.3	ug/L	1.3	JO
Acetone	9.5	ug/L	5.0	JO
Dibromomethane	< 0.6	ug/L	0.6	JO
2,2-Dichloropropane	< 1.6	ug/L	1.6	JO
Bromochloromethane	< 0.5	ug/L	0.5	JO
Methyl tert-butyl Ether	< 1.0	ug/L	1.0	JO

RL = Reporting Limit

All data for this report has been approved by MVTL Laboratory Management.

PCA04-1549





# LABORATORIES, Inc.

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NEW ULM, MN 56073-0249  
PHONE (507) 354-8517 WATS (800) 782-3557 FAX (507) 359-2890



**WE ARE AN EQUAL OPPORTUNITY EMPLOYER**

Report Date: 31 Aug 1995

Lab Number: 95-L20030

Work Order #: 22-499

Account #: 019099

JAY THOMPSON  
ACCURATE ENVIRONMENTAL  
2231 CATLIN AVE STE 420  
SUPERIOR WI 54880

Date Received: 15 Aug 1995

Date Sampled: 11 Aug 1995

Temperature at Receipt: ON ICE

Project Number: CODLPGC95259

EPA SW-846 Method 8021 MDH 465E

VOC Date Analyzed: 17 Aug 1995

VOC Dilution Factor: 1

Sample Description: 95259-05 TRIP BLANK  
VOLATILE ORGANICS

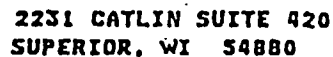
	Result	Units	RL	Analyst
=====	=====	=====	=====	=====
Styrene	< 0.5	ug/L	0.5	JO
n-Propylbenzene	< 0.5	ug/L	0.5	JO
Bromobenzene	< 1.0	ug/L	1.0	JO
2-Chlorotoluene	< 0.4	ug/L	0.4	JO
1,3,5-Trimethylbenzene	< 0.5	ug/L	0.5	JO
4-Chlorotoluene	< 0.4	ug/L	0.4	JO
t-Butylbenzene	< 0.6	ug/L	0.6	JO
1,2,4-Trimethylbenzene	< 0.5	ug/L	0.5	JO
sec-Butylbenzene	< 0.4	ug/L	0.4	JO
p-Isopropyltoluene	< 0.4	ug/L	0.4	JO
n-Butylbenzene	< 0.5	ug/L	0.5	JO
1,2-Dibromo-3-chloropropane	< 1.0	ug/L	1.0	JO
1,2,4-Trichlorobenzene	< 0.5	ug/L	0.5	JO
Hexachlorobutadiene	< 1.0	ug/L	1.0	JO
Naphthalene	< 0.6	ug/L	0.6	JO
1,2,3-Trichlorobenzene	< 1.0	ug/L	1.0	JO

RL = Reporting Limit

All data for this report has been approved by MVTL Laboratory Management.

PCA04-1550





CHAIN OF CUSTODY RECORD  
AND  
REQUEST FOR ANALYSIS

No. 9525

TOLL FREE (800) TEST-AET  
LAB (715) 392-5844  
FAX (715) 394-7414

[illegible]

**PCA04-1551**



Company Name:

RSI

Branch or Location:

Duluth, MN

Project Contact:

Earl Fashbaugh

Telephone:

(218) 722-6013

Project Number:

Project Name:

C.O.D. Lester Park Golf Course

Project Location:

Duluth, MN

Sampled By (Print):

Gary A. Johnson

Regulatory Program (circle):

UST

RCRA

CLP

SDWA

NPDES/WPDES

CAA

NR

Other

NR720 Confirmation Analysis Required?

(En Chem will confirm unless otherwise instructed.)

EN-CHEM INC.

☐ 1241 Bellevue St., Suite 9  
Green Bay, WI 54302  
414-469-2436 • 1-800-736-2436  
FAX 414-469-8827

☐ 2231 Catlin Ave., Suite 420  
Superior, WI 54880  
715-392-5844 • 1-800-837-8238  
FAX 715-392-5843

## CHAIN OF CUSTODY

Mail Report To:

Company:

RSI

Address:

102 S. 29th Ave. W, Suite 100  
Duluth, MN 55806

Invoice To:

Company:

RSI

Address:

(Same)

P.O. No.:

Quote No.: 2389

SHADED AREA FOR LABORATORY USE ONLY

Field ID	Sample Description	Collection Date	Time	Field Screen	Matrix	Filt'd Y/N	Preserv.	Analysis Requested	Good Cond.	Total Bottles	Comments	Laboratory Number
MW-1		8/20/96	3:55 pm		H <sub>2</sub> O		B	DRG/GRU/BTEX/MTBE	1	3-40ml		502553
MW-2			4:00 pm					" " " "	1			502554
MW-3			4:10 pm					" " " "	1			502555
MW-4			4:15 pm					" " " "	1			502556
MW-5			3:45 pm					" " " "	1			502557
MW-5 Duplicate			3:45 pm					BTEX/MTBE	1	3-40ml		502558
Trip Blank		8/20/96			H <sub>2</sub> O		B	GRU/BTEX/MTBE	1	3-40ml		502561

## Preservation Code

A=None B=HCL C=H<sub>2</sub>SO<sub>4</sub>  
D=HNO<sub>3</sub> E=EnCore F=Methanol  
G=NaOH O=Other (Indicate)

\*If not using En Chem's methanol, indicate volume of methanol added and mark the appropriate samples.

Relinquished By:

[Signature]

Date/Time:

8/21/96 4:00 pm

Received By:

[Signature]

En Chem Project No.

0896057

Relinquished By:

[Signature]

Date/Time:

8.21.96 4:30

Received By:

[Signature]

Sample Receipt Temp.

(Must be rec'd at 4°C)

Relinquished By:

[Signature]

Date/Time:

8.21.96 4:30

Received By (En Chem):

[Signature]

Sample Receipt Temp.

0.9°C

PCA04-1552





... chemistry for the environment

Superior Laboratory  
2231 Catlin Ave., Suite 420  
Superior, WI 54880  
715-392-5844  
1-800-837-8238  
Fax: 715-392-5843

Lab Certification No. 816079330  
Location : C.O.D. LESTER PK GOLF COURSE  
En Chem Proj# : 0896057  
Date Reported : 08/30/1996

Report to: REMEDIATION SERVICES INC

Thank you for using En Chem! Samples were analyzed according to strict EPA or Wisconsin DNR methodology. Any comments or problems associated with the receipt of or analysis are reported below:

Sample Nos. 502553, 502555, & 502557: Later eluting peaks outside DRO window.

Sample No. 502554: Complex chromatogram for BTEX analysis indicating the presence of fuel. Chromatogram has a typical gasoline pattern. Some peaks were outside of GRO window. Surrogate Standard (SS) is high due to co-elution. Front peaks outside of DRO window, indicating lighter fuels are present. Later eluting peaks outside DRO window.

Sample No. 502556: BTEX chromatogram has many low level late eluting peaks that are not above detection limit. Later eluting peaks outside DRO window.

PCA04-1553

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2231 Catlin Ave., Suite 420  
Superior, WI 54880  
715-392-5844  
1-800-837-8238  
Fax: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PK GOLF COURSE  
Your Sample ID:  
Sample Desc. : MW-1  
Sample Matrix : WATER Date Collected: 08/20/1996  
En Chem Proj# : 0896057 Date Received : 08/21/1996  
En Chem Lab # : 502553 Date Reported : 08/30/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyst
MTBE-W	Methyl-tert-butyl Ether	ND	ug/l	1.0	SW846 5030	08/29/1996	SW846 8020	08/29/1996	md
GRO	Gasoline Range Organics(GRO)-Water	ND	ug/l	50		08/29/1996	WDNR MOD GRO	08/29/1996	mdc
	Blank spike	98 % RECOV		50					
	Blank spike duplicate	97 % RECOV		50					
DRO	Diesel Range Organics(DRO)-Water	ND	ug/l	100		08/23/1996	WDNR MOD DRO	08/23/1996	DLP
	Blank spike	78 % RECOV		50					
	Blank spike duplicate	84 % RECOV		50					
BTEX-W	Benzene	ND	ug/l	0.6	SW846 5030	08/29/1996	SW846 8020	08/29/1996	md
	Ethyl Benzene	ND	ug/l	1.0					
	Toluene	ND	ug/l	1.0					
	Xylenes, m + p	ND	ug/l	1.0					
	Xylene, o	ND	ug/l	1.0					
	a,a,a-Trifluorotoluene (SS)	102 % recov		1					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:





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Superior Laboratory  
2231 Catlin Ave., Suite 420  
Superior, WI 54880  
715-392-5844  
1-800-837-8238  
Fax: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PK GOLF COURSE  
Your Sample ID:  
Sample Desc. : MW-2  
Sample Matrix : WATER  
En Chem Proj# : 0896057  
En Chem Lab # : 502554  
Date Collected: 08/20/1996  
Date Received : 08/21/1996  
Date Reported : 09/04/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyzed By
BE-W	Methyl-tert-butyl Ether	ND	ug/l	4.0	SW846 5030	08/30/1996	SW846 8020	08/30/1996	mdc
GRO	Gasoline Range Organics(GRO)-Water	5200	ug/l	200		08/30/1996	WDNR MOD GRO	08/30/1996	mdc
	Blank spike	98 % RECOV		50					
	Blank spike duplicate	97 % RECOV		50					
D	Diesel Range Organics(DRO)-Water	700	ug/l	100		08/23/1996	WDNR MOD DRO	08/23/1996	DLP
	Blank spike	78 % RECOV		50					
	Blank spike duplicate	84 % RECOV		50					
EX-W	Benzene	270	ug/l	2.4	SW846 5030	08/30/1996	SW846 8020	08/30/1996	mdc
	Ethyl Benzene	190	ug/l	4.0					
	Toluene	36	ug/l	4.0					
	Xylenes, m + p	330	ug/l	4.0					
	Xylene, o	41	ug/l	4.0					
	a,a,a-Trifluorotoluene (SS)	126 % recov		1					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

Corporate Office & Laboratory

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PCA04-1555





... chemistry for the environment

Superior Laboratory  
2231 Catlin Ave., Suite 420  
Superior, WI 54880  
715-392-5844  
1-800-837-8238  
Fax: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PK GOLF COURSE  
Your Sample ID:  
Sample Desc. : MW-3  
Sample Matrix : WATER  
En Chem Proj# : 0896057  
En Chem Lab # : 502555  
Date Collected: 08/20/1996  
Date Received : 08/21/1996  
Date Reported : 08/30/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyst
MTBE-W	Methyl-tert-butyl Ether	ND	ug/l	1.0	SW846 5030	08/29/1996	SW846 8020	08/29/1996	mdc
GRO	Gasoline Range Organics(GRO)-Water	ND	ug/l	50		08/29/1996	WDNR MOD GRO	08/29/1996	mdc
	Blank spike	98 % RECOV		50					
	Blank spike duplicate	97 % RECOV		50					
DRO	Diesel Range Organics(DRO)-Water	ND	ug/l	100		08/23/1996	WDNR MOD DRO	08/24/1996	DL
	Blank spike	78 % RECOV		50					
	Blank spike duplicate	84 % RECOV		50					
BTEX-W	Benzene	ND	ug/l	0.6	SW846 5030	08/29/1996	SW846 8020	08/29/1996	mdc
	Ethyl Benzene	ND	ug/l	1.0					
	Toluene	ND	ug/l	1.0					
	Xylenes, m + p	ND	ug/l	1.0					
	Xylene, o	ND	ug/l	1.0					
	a,a,a-Trifluorotoluene (SS)	101 % recov		1					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

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PCA04-1556





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Superior Laboratory  
2231 Catlin Ave., Suite 420  
Superior, WI 54880  
715-392-5844  
1-800-837-8238  
Fax: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PK GOLF COURSE  
Your Sample ID:  
Sample Desc. : MW-4  
Sample Matrix : WATER  
En Chem Proj# : 0896057  
En Chem Lab # : 502556  
Date Collected: 08/20/1996  
Date Received : 08/21/1996  
Date Reported : 08/30/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analized By
M E-W	Methyl-tert-butyl Ether	ND	ug/l	1.0	SW846 5030	08/29/1996	SW846 8020	08/29/1996	mdc
GRO	Gasoline Range Organics(GRO)-Water	ND	ug/l	50		08/29/1996	WDNR MOD GRO	08/29/1996	mdc
	Blank spike	98 % RECOV		50					
	Blank spike duplicate	97 % RECOV		50					
DRO	Diesel Range Organics(DRO)-Water	ND	ug/l	100		08/23/1996	WDNR MOD DRO	08/24/1996	DLP
	Blank spike	78 % RECOV		50					
	Blank spike duplicate	84 % RECOV		50					
E X-W	Benzene	ND	ug/l	0.6	SW846 5030	08/29/1996	SW846 8020	08/29/1996	mdc
	Ethyl Benzene	ND	ug/l	1.0					
	Toluene	ND	ug/l	1.0					
	Xylenes, m + p	ND	ug/l	1.0					
	Xylene, o	ND	ug/l	1.0					
	a,a,a-Trifluorotoluene (SS)	102 % recov		1					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

Corporate Office & Laboratory

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PCA04-1557





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Superior Laboratory  
2231 Catlin Ave., Suite 420  
Superior, WI 54880  
715-392-5844  
1-800-837-8238  
Fax: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PK GOLF COURSE  
Your Sample ID:  
Sample Desc. : MW-5  
Sample Matrix : WATER  
En Chem Proj# : 0896057  
En Chem Lab # : 502557  
Date Collected: 08/20/1996  
Date Received : 08/21/1996  
Date Reported : 08/30/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyst By
MTBE-W	Methyl-tert-butyl Ether	ND	ug/l	1.0	SW846 5030	08/29/1996	SW846 8020	08/29/1996	md
GRO	Gasoline Range Organics(GRO)-Water	ND	ug/l	50		08/29/1996	WDNR MOD GRO	08/29/1996	mdc
	Blank spike	98 % RECOV		50					
	Blank spike duplicate	97 % RECOV		50					
DRO	Diesel Range Organics(DRO)-Water	ND	ug/l	100		08/23/1996	WDNR MOD DRO	08/24/1996	DL
	Blank spike	78 % RECOV		50					
	Blank spike duplicate	84 % RECOV		50					
BTEX-W	Benzene	ND	ug/l	0.6	SW846 5030	08/29/1996	SW846 8020	08/29/1996	md
	Ethyl Benzene	ND	ug/l	1.0					
	Toluene	ND	ug/l	1.0					
	Xylenes, m + p	ND	ug/l	1.0					
	Xylene, o	ND	ug/l	1.0					
	a,a,a-Trifluorotoluene (SS)	101 % recov		1					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:

Corporate Office & Laboratory

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PCA04-1558





... chemistry for the environment

Superior Laboratory  
2231 Catlin Ave., Suite 420  
Superior, WI 54880  
715-392-5844  
1-800-837-8238  
Fax: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PK GOLF COURSE  
Your Sample ID:  
Sample Desc. : MW-5 DUPLICATE  
Sample Matrix : WATER Date Collected: 08/20/1996  
En Chem Proj# : 0896057 Date Received : 08/21/1996  
En Chem Lab # : 502558 Date Reported : 08/30/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analysis Analyzed By
BE-W	Methyl-tert-butyl Ether	ND	ug/l	1.0	SW846 5030	08/29/1996	SW846 8020	08/29/1996	mdc
BTEX-W	Benzene	ND	ug/l	0.6	SW846 5030	08/29/1996	SW846 8020	08/29/1996	mdc
	Ethyl Benzene	ND	ug/l	1.0					
	Toluene	ND	ug/l	1.0					
	Xylenes, m + p	ND	ug/l	1.0					
	Xylene, o	ND	ug/l	1.0					
	a,a,a-Trifluorotoluene (SS)	101 % recov		1					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:





... chemistry for the environment

Superior Laboratory  
2231 Catlin Ave., Suite 420  
Superior, WI 54880  
715-392-5844  
1-800-837-8238  
Fax: 715-392-5843

Lab Certification No. 405132750  
Location : C.O.D. LESTER PK GOLF COURSE  
Your Sample ID:  
Sample Desc. : TRIP BLANK  
Sample Matrix : WATER Date Collected: 08/20/1996  
En Chem Proj# : 0896057 Date Received : 08/21/1996  
En Chem Lab # : 502561 Date Reported : 08/30/1996

Report to: REMEDIATION SERVICES INC  
SUITE 100  
102 SOUTH 29TH AVENUE WEST  
DULUTH, MN 55806

Bill to: REMEDIATION SERVICES INC

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analysed By
MTBE-W	Methyl-tert-butyl Ether	ND	ug/l	1.0	SW846 5030	08/29/1996	SW846 8020	08/29/1996	md
GRO	Gasoline Range Organics(GRO)-Water	ND	ug/l	50		08/29/1996	WDNR MOD GRO	08/29/1996	mdc
	Blank spike	98 % RECOV		50					
	Blank spike duplicate	97 % RECOV		50					
BTEX-W	Benzene	ND	ug/l	0.6	SW846 5030	08/29/1996	SW846 8020	08/29/1996	mdc
	Ethyl Benzene	ND	ug/l	1.0					
	Toluene	ND	ug/l	1.0					
	Xylenes, m + p	ND	ug/l	1.0					
	Xylene, o	ND	ug/l	1.0					
	a,a,a-Trifluorotoluene (SS)	101 % recov		1					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

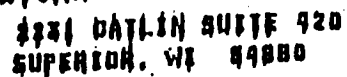
These results have been reviewed and their authenticity verified by:

Corporate Office & Laboratory

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PCA04-1560





# CHAIN OF CUSTODY RECORD AND REQUEST FOR ANALYSIS

TOLL FREE (800) TEST-AET  
LAB (716) 392-6844  
FAX (716) 394-7414

[illegible]



# CHAIN OF CUSTODY RECORD AND REQUEST FOR ANALYSIS

TOLL FREE (800) TEST-AET  
LAB (716) 392-6844  
FAX (716) 394-7414

RST  
Parker Park Golf Course

SAMPLER NAME: Tim Heron

SAMPLER SIGNATURE: Timothy Heron

REMARKS:

**BILLING  
ADDRESS:**

[illegible]

Completed by: (Signature)  
 Timothy Hare  
 Initialed by: (Signature)

Date / Time  
9.39 AM  
3-30-95  
Date / Time

Received by: (Signature)  
[Signature]  
Received by: (Signature)  
[Signature]

Relinquished by: (Signature)  
JHET  
Relinquished by: (Signature)

Date / Type

Received by (Signature)

Date / Time

Received by: (Signature)

**CHECK HERE FOR OTHER  
WATER RESOURCES**

**TURBIDITY IS REQUIRED:**

☐ ЮЛИАН ☐ АУСТ

**UNCLASSIFIED**

### Antelope Temperatures:

1 - Bureau of the  
General Radiations

Dr. [redacted] [redacted]



## METHODOLOGIES AND PROCEDURES

During the subsurface investigation a drill rig utilizing hollow stem auger drilling techniques, or a Geoprobe utilizing direct push technology, were used to investigate the extent of soil and groundwater contamination at the site.

### Soil Borings and Sampling

Soil samples were collected continuously. Soil sampling performed with the drill rig was conducted in accordance with ASTM Method D1586, "Penetration Tests and Split Spoon Sampling for Soils." A qualified, on-site, environmental geologist classified each sample. Upon the completion of soil sampling, each soil boring was abandoned according to Minnesota Department of Health well code. Samples obtained with the Geoprobe were collected with a 4-foot long sampler equipped with a dedicated polyethylene liner.

Headspace analyses were conducted on the soil samples with a photoionization detector (PID) (PhotoVac MicroTIP-1000) equipped with a 10.6 eV lamp. The PID was calibrated with a 100-ppm isobutylene standard and ambient air (zero ppm). Representative portions of each sample were placed in a ziplock plastic bag. When possible, the bags were filled to one-half capacity before sealing. The time of sampling was recorded on the bag that was then placed inside a heated vehicle. The samples were allowed to warm for a minimum of 10 minutes before the PID probe was used to perforate the plastic bags. The highest PID reading was recorded for each sample collected.

Ground water samples obtained with the Geoprobe were collected through the Geoprobe rods using polyethylene tubing and a vacuum pump, or from temporary PVC wells with dedicated, disposable, polyethylene bailers. Ground water samples obtained from monitoring wells were collected with dedicated disposable bailers after 3 to 5 well volumes were purged from the wells.

Soil and groundwater samples were placed in the proper sample containers and placed in a cooler with ice to maintain a 4°C temperature.

Monitoring wells were installed in accordance with Minnesota Department of Health well code. The wells were developed and sampled in accordance with MPCA guidelines using disposable bailers.

### Decontamination

The drilling equipment and all tools were decontaminated between samples and borings with warm Alconox water and triple rinsed with hot tap water to prevent cross-contamination. Dedicated, disposable sampling equipment was used where possible.

### Quality Assurance/Quality Control

Sample bottles were carefully labeled with the name of the sampler, date, time, preservative and analytical parameter as required. This information was recorded on a chain-of-custody form. Samples were placed in an ice-packed cooler and delivered to an independent, Minnesota-certified analytical laboratory.

Samples were transported by common carrier to the laboratory with the appropriate chain-of-custody documents. These documents and analyses are included in Appendix B.



# LOG OF BORING

PROJECT: CITY OF DULUTH				SITE: LESTER PARK GOLF COURSE							
OWNER: CITY OF DULUTH				BORING #: SB-1							
DEPTH, FEET	SAMPLE NUMBER AND TYPE	STRATA CHANGE (FEET)	DESCRIPTION OF MATERIAL	TEST RESULTS (PID)	N-VALUE (BLOWS/FT)	WATER LEVEL	STANDARD PENETRATION (BLOWS/FOOT)				
			SURFACE ELEVATION: 97.60				10	20	30	40	50
1											
2											
3											
4											
5											
6		6									
7			SAND AND GRAVEL W/ CLAY LENSES, BROWN, (FC), FILL, WATER BEARING 6.5'			▽					
8											
9											
10		10									
11			SILT, SAND, AND GRAVEL, REDDISH - BROWN, BEDDED, WET TO WATER BEARING								
12											
13											
14											
15											
16											
17			END OF BORING 16'								
18											
19											
20											
21											
22											

WATER LEVEL OBSERVATIONS		<div style="text-align: center;"> <h2>RSI</h2> <p>ENVIRONMENTAL CONSULTANTS</p> </div>	BORING STARTED: 12/7/94	
V.L.	6.5'		BORING COMPLETED 12/7/94	
W.L.			RIG: GEOPROBE	DRILLER: SB
V.L.			DRAWN: TMH	APPROVED: EFF

The Stratification Lines Represent Approximate Boundaries Between Soil Types; In-Situ, The Transition May Be Gradual

PCA04-1566



# LOG OF BORING

PROJECT: CITY OF DULUTH				SITE: LESTER PARK GOLF COURSE							
OWNER: CITY OF DULUTH				BORING #: SB-2							
DEPTH, FEET	SAMPLE NUMBER AND TYPE	STRATA CHANGE (FEET)	DESCRIPTION OF MATERIAL	TEST RESULTS (PID)	N-VALUE (BLOWS/FT)	WATER LEVEL	STANDARD PENETRATION (BLOWS/FOOT)				
							10	20	30	40	50
			SURFACE ELEVATION: 96.26								
1		1	SAND AND GRAVEL, GRAY, FILL								
2			SILTY CLAY, REDDISH BROWN AND GRAY MOTTLED, CRUMBLY, DRY								
3											
4											
5											
6											
7			JOINTED WITH SILT IN THE JOINTS	0.8							
8											
9											
10				4.1							
11		11	SAND, BROWN, (FC), WATER BEARING			▽					
12											
13											
14											
15		15	SILT, REDDISH BROWN, MOIST								
16			END OF BORING 16'								
17											
18											
19											
20											
21											
22											

WATER LEVEL OBSERVATIONS		<div style="text-align: center;"> <h2>RSI</h2> <p>ENVIRONMENTAL CONSULTANTS</p> </div>	BORING STARTED: 12/7/94	
W.L.	11'		BORING COMPLETED 12/7/94	
W.L.			RIG: GEOPROBE	DRILLER: SB
W.L.			DRAWN: TMH	APPROVED: EFF

The Stratification Lines Represent Approximate Boundaries Between Soil Types; In-Situ, The Transition May Be Gradual

PCA04-1567



# LOG OF BORING

PROJECT: CITY OF DULUTH				SITE: LESTER PARK GOLF COURSE							
OWNER: CITY OF DULUTH				BORING #: SB-3							
DEPTH, FEET	SAMPLE NUMBER AND TYPE	STRATA CHANGE (FEET)	DESCRIPTION OF MATERIAL	TEST RESULTS (PID)	N-VALUE (BLOWS/FT)	WATER LEVEL	STANDARD PENETRATION (BLOWS/FOOT)				
			SURFACE ELEVATION: 97.04				10	20	30	40	50
1		0.5	ASPHALT	2.4		▽					
2		2	SAND AND GRAVEL, GRAY								
3			SILTY CLAY, REDDISH BROWN AND GRAY MOTTLED								
4											
5											
6		6	SAND, SILT, CLAY, AND GRAVEL, BROWN TO REDDISH BROWN, BEDDED, FILL, WATER BEARING								
7											
8											
9											
10											
11		10	INTERBEDDED CLAY, SILT, AND SAND, REDDISH BROWN, (FC), WATER BEARING								
12											
13											
14											
15		14	SILTY SANDY CLAY AND GRAVEL, REDDISH BROWN, MOIST								
16											
17			END OF BORING 16'								
18											
19											
20											
21											
22											

WATER LEVEL OBSERVATIONS		<div style="text-align: center;"> <h2>RSI</h2> <p>ENVIRONMENTAL CONSULTANTS</p> </div>	BORING STARTED: 12/7/94	
W.L.	7'		BORING COMPLETED 12/7/94	
W.L.			RIG: GEOPROBE	DRILLER: SB
W.L.			DRAWN: TMH	APPROVED: EFF

The Stratification Lines Represent Approximate Boundaries Between Soil Types; In-Situ, The Transition May Be Gradual

PCA04-1568



# LOG OF BORING

PROJECT: CITY OF DULUTH				SITE: LESTER PARK GOLF COURSE									
OWNER: CITY OF DULUTH				BORING #: SB-4 (MW-1)									
DEPTH, FEET	SAMPLE NUMBER AND TYPE	STRATA CHANGE (FEET)	DESCRIPTION OF MATERIAL	TEST RESULTS (PID)	N-VALUE (BLOWS/FT)	WATER LEVEL	STANDARD PENETRATION (BLOWS/FOOT)						
			SURFACE ELEVATION: 99.31				10	20	30	40	50		
1		6	1" ASPHALT	48	19	▽		⊗					
2			SILT, REDDISH BROWN, MOIST		2								
3													
4													
5							22						
6					760		2			⊗			
7				SILTY SANDY CLAY AND GRAVEL, INTERBEDDED W/ SILT, REDDISH BROWN, S/ SAND SEAMS			36						
8					10.3		2					⊗	
9													
10													
11					6.5								
12													
13				SILT, BROWN, WET TO WATER BEARING	7.7								
14													
15				W/ GRAVEL	6.3								
16													
17													
18				END OF BORING 18'									
19			WELL SET IN BORING										
20													
21													
22													

## WATER LEVEL OBSERVATIONS

W.L. 9.5' WHILE DRILLING

W.L.

W.L.

# RSI

ENVIRONMENTAL CONSULTANTS

BORING STARTED: 3/27/95

BORING COMPLETED 3/27/95

RIG: GEOPROBE

DRILLER: SB

DRAWN: TMH

APPROVED: EFF

The Stratification Lines Represent Approximate Boundaries Between Soil Types; In-Situ, The Transition May Be Gradual

PCA04-1569



# LOG OF BORING

PROJECT: CITY OF DULUTH				SITE: LESTER PARK GOLF COURSE							
OWNER: CITY OF DULUTH				BORING #: SB-5 (MW-2)							
DEPTH, FEET	SAMPLE NUMBER AND TYPE	STRATA CHANGE (FEET)	DESCRIPTION OF MATERIAL	TEST RESULTS (PID)	N-VALUE (BLOWS/FT)	WATER LEVEL	STANDARD PENETRATION (BLOWS/FOOT)				
			SURFACE ELEVATION: 95.96				10	20	30	40	50
			6" TOPSOIL								
1			REDDISH BROWN SILTY CLAY, INTERBEDDED W/ BROWN BEDDED SILTS, MOIST W/ SAND LENSES	4.9	19						
2					2						
3											
4											
5					5.5	24					
6					2						
7											
8					3.7	19					
9					2						
10		9.5	FINE TO COARSE BEDDED SANDS INTERBEDDED W/ SILTS AND CLAYS, BROWN								
11				4	23						
12				2							
13											
14											
15											
16			END OF BORING 15' WELL SET IN BORING								
17											
18											
19											
20											
21											
22											
WATER LEVEL OBSERVATIONS			<div style="text-align: center;"> <h2>RSI</h2> <p>ENVIRONMENTAL CONSULTANTS</p> </div>		BORING STARTED: 3/29/95						
W.L. 9'		BORING COMPLETED 3/29/95									
W.L.		RIG: SIMCO			DRILLER: SB						
W.L.		DRAWN: TMH			APPROVED: EFF						

The Stratification Lines Represent Approximate Boundaries Between Soil Types; In-Situ, The Transition May Be Gradual

PCA04-1570



# LOG OF BORING

PROJECT: CITY OF DULUTH				SITE: LESTER PARK GOLF COURSE									
OWNER: CITY OF DULUTH				BORING #: SB-6 (MW-3)									
DEPTH, FEET	SAMPLE NUMBER AND TYPE	STRATA CHANGE (FEET)	DESCRIPTION OF MATERIAL	TEST RESULTS (PID)	N-VALUE (BLOWS/FT)	WATER LEVEL	STANDARD PENETRATION (BLOWS/FOOT)						
			SURFACE ELEVATION: 96.34				10	20	30	40	50		
1		10	6" TOPSOIL	5.6	19								
2			SILTY SANDY CLAY, REDDISH BROWN AND GRAY, BEDDING		2								
3													
4													
5			W/ SAND LENSES	5.4	24								
6					2								
7													
8													
9					5							▽	
10													
11				SILTY FINE TO COARSE SAND AND GRAVEL WATER BEARING, INTERBEDDED W/ CLAY	5.6								
12													
13				BROWN SILTY CLAY									
14													
15			END OF BORING 14' WELL SET IN BORING										
16													
17													
18													
19													
20													
21													
22													

WATER LEVEL OBSERVATIONS		RSI	BORING STARTED: 3/28/95	
W.L.	8.5'		BORING COMPLETED 3/28/95	
W.L.			RIG: SIMCO	DRILLER: SB
W.L.			DRAWN: TMH	APPROVED: EFF
		ENVIRONMENTAL CONSULTANTS		
The Stratification Lines Represent Approximate Boundaries Between Soil Types; In-Situ, The Transition May Be Gradual				

PCA04-1571



# LOG OF BORING

PROJECT: LESTER PARK GOLF COURSE				SITE: DULUTH, MINNESOTA							
OWNER: CITY OF DULUTH				BORING #: SB-7 (MW-4)							
DEPTH, FEET	SAMPLE NUMBER AND TYPE	STRATA CHANGE (FEET)	DESCRIPTION OF MATERIAL	TEST RESULTS (PID)	N-VALUE (BLOWS/FT)	WATER LEVEL	STANDARD PENETRATION (BLOWS/FOOT)				
			SURFACE ELEVATION: 100.88				10	20	30	40	50
1	1-SS	2.5	DARK BROWN SILTY CLAY, (CL), MOIST, HIGH PLASTICITY	15.4							
2											
3											
4	2-SS	7	REDDISH-BROWN CLAY, (CL), MODERATE PLASTICITY	1.8	7						
5											
6	3-SS			SLIGHT PLASTICITY	1.6	13					
7		10	REDDISH-BROWN MOTTLED CLAYEY SILT, (ML)								
8											
9	4-SS				2.2	40					
10		14	REDDISH-BROWN SILTY FINE SAND, (SM), MOIST	2.8	27	▽					
11	5-SS										
12											
13	6-SS	16.5		2.5	34						
14											
15	7-SS			REDDISH-BROWN MOTTLED CLAY, (CL), MODERATE PLASTICITY	2.2						
16											
17			REDDISH-BROWN SILTY FINE SAND, (SM)								
18			END OF BORING 17'								
19											
20											
21											
22											

WATER LEVEL OBSERVATIONS		<div style="text-align: center;"> <h2>RSI</h2> <p>ENVIRONMENTAL CONSULTANTS</p> </div>	BORING STARTED: 4/29/96	
W.L.	~10'		BORING COMPLETED 4/29/96	
W.L.			RIG: SIMCO	DRILLER: PK
W.L.			DRAWN: BJN	APPROVED: BJN

The Stratification Lines Represent Approximate Boundaries Between Soil Types; In-Situ, The Transition May Be Gradual

PCA04-1572



# LOG OF BORING

PROJECT: LESTER PARK GOLF COURSE				SITE: DULUTH, MINNESOTA							
OWNER: CITY OF DULUTH				BORING #: SB-8 (MW-5)							
DEPTH, FEET	SAMPLE NUMBER AND TYPE	STRATA CHANGE (FEET)	DESCRIPTION OF MATERIAL	TEST RESULTS (PID)	N-VALUE (BLOWS/FT)	WATER LEVEL	STANDARD PENETRATION (BLOWS/FOOT)				
							10	20	30	40	50
			SURFACE ELEVATION: 94.25								
1		2	DARK BROWN SILTY CLAYEY TOPSOIL, (OH), ORGANICS	3.5							
2											
3		4	REDDISH-BROWN MOTTLED CLAYEY SILT, (ML)	2.7	4		⊗				
4											
5		7	REDDISH-BROWN MOTTLED SILTY CLAY, (CL), MOIST	2.2	5	▽	⊗				
6				WET							
7		11.5	REDDISH-BROWN SILT W/ FINE SAND, (ML)	2.1	24				⊗		
8											
9											
10											
11				2.1	34					⊗	
12			MEDIUM TO COARSE SAND W/ GRAVEL, SILTY, (GM)								
13			END OF BORING 13'								
14											
15											
16											
17											
18											
19											
20											
21											
22											

WATER LEVEL OBSERVATIONS		<div style="text-align: center;"> <h2>RSI</h2> <p>ENVIRONMENTAL CONSULTANTS</p> </div>	BORING STARTED: 4/29/96	
W.L.	6.0'		BORING COMPLETED 4/29/96	
W.L.			RIG: SIMCO	DRILLER: PK
W.L.			DRAWN: BJN	APPROVED: BJN

The Stratification Lines Represent Approximate Boundaries Between Soil Types; In-Situ, The Transition May Be Gradual



# LOG OF BORING

PROJECT: Lester Park Golf Course

SITE: Lester Park Golf Course

OWNER: City of Duluth

BORING #: GP-1

DEPTH, FEET	SAMPLE NUMBER AND TYPE	STRATA CHANGE (FEET)	DESCRIPTION OF MATERIAL	TEST RESULTS (PID)	N-VALUE (BLOWS/FT)	WATER LEVEL	STANDARD PENETRATION (BLOWS/FOOT)				
			SURFACE ELEVATION:				10	20	30	40	50
1		1	Brown fine to medium silty SAND.	0							
2		2	Brown clayey SILT with organics and gravel.	0							
3			Red/brown silty CLAY, moist.	1.2							
4				1.2							
5			Light brown mottling.	0							
6				0							
7				0							
8			Wet.	0		▽					
9				0							
10				0							
11				0							
12				0							
13			No mottling.	2.6							
14				2.6							
			End of boring at 14 feet.								
			Ground water sample collected.								
			Soil samples collected at 8 feet and 14 feet.								
WATER LEVEL OBSERVATIONS				BORING STARTED: 12/11/97							
W.L.	Encountered at 8 feet.			BORING COMPLETED: 12/11/97							
W.L.				RIG: RSI Geoprobe				DRILLER: TDS			
W.L.				DRAWN: GMP				APPROVED:			
The Stratification Lines Represent Approximate Boundaries Between Soil Types; In-Situ, The Transition May Be Gradual											

RSI

ENVIRONMENTAL CONSULTANTS

PCA04-1574

RSI

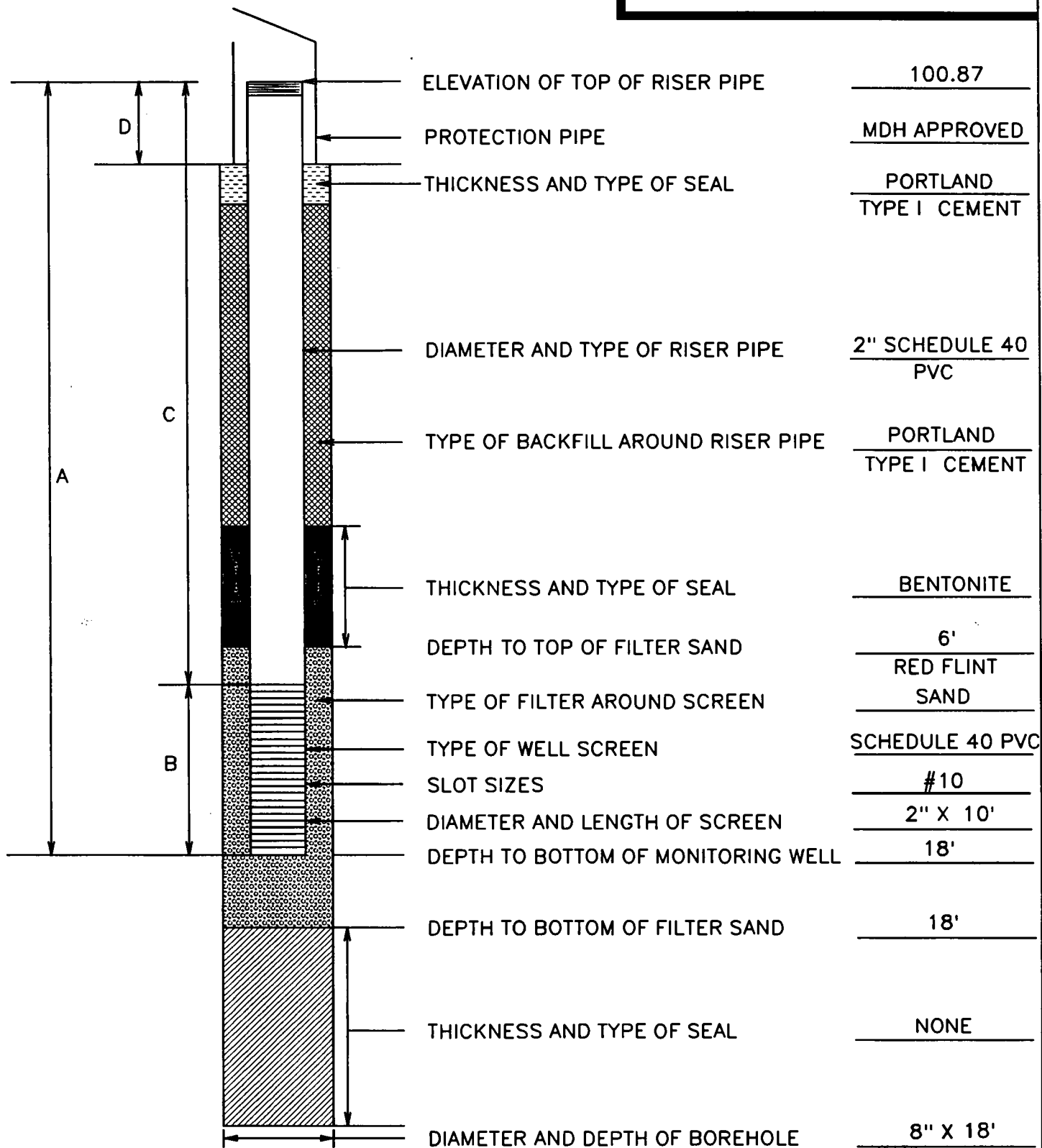
ENVIRONMENTAL CONSULTANTS

PCA04-1574



SITE NAME LESTER PARK GOLF COURSE  
 MINNESOTA UNIQUE WELL NO. 559216  
 A = total length of well 20'  
 B = length of well screen 10'  
 C = length of riser pipe 10'  
 D = stick-up at surface 1.5'

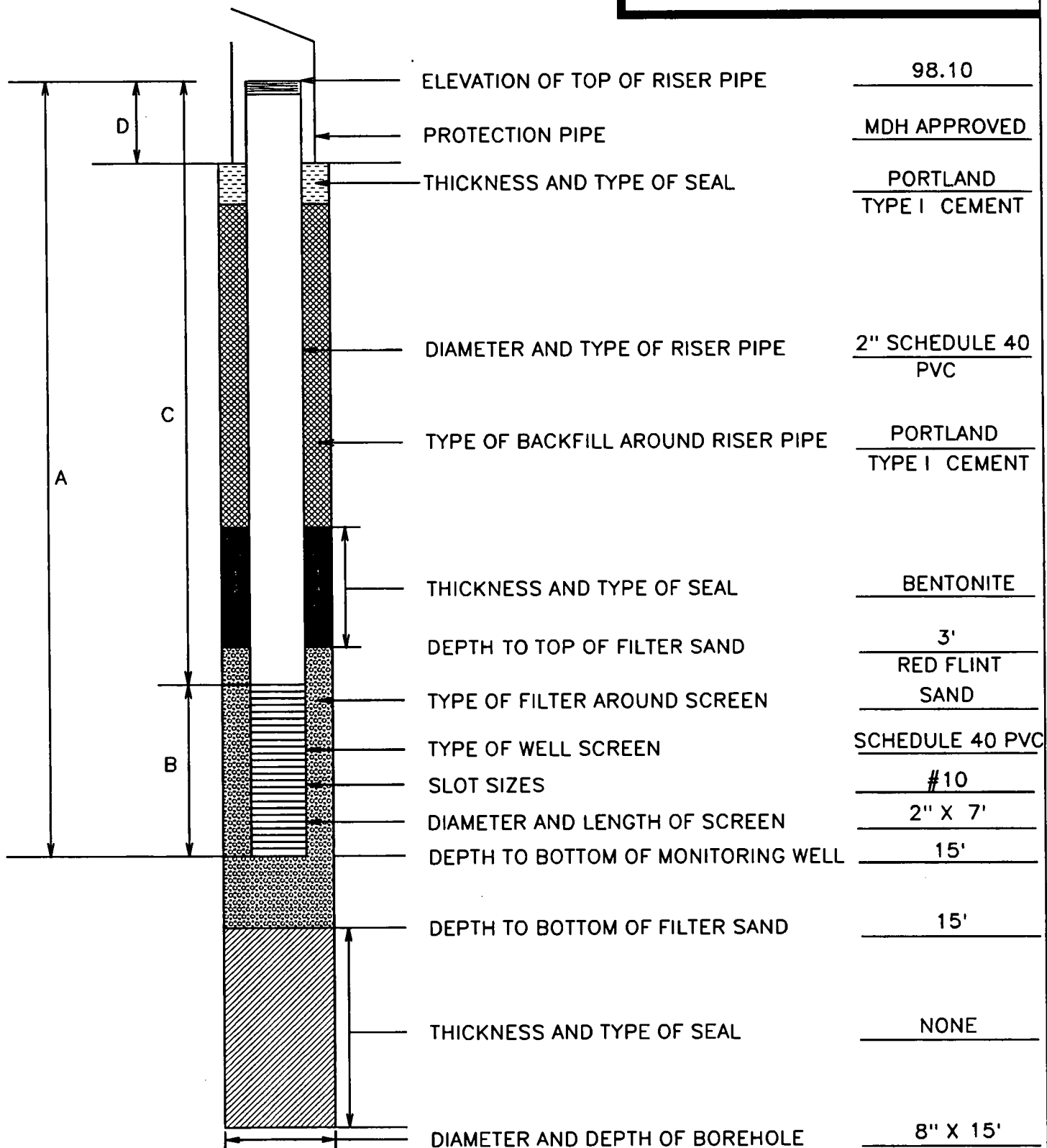
MONITORING WELL MW-1  
 DATE INSTALLED 3/27/95  
 DRILLER/RIG HSA  
 GROUND SURFACE ELEV. 99.31  
 WATER LEVELS  
 static: \_\_\_\_\_





SITE NAME LESTER PARK GOLF COURSE  
 MINNESOTA UNIQUE WELL NO. 559217  
 A = total length of well 17'  
 B = length of well screen 7'  
 C = length of riser pipe 10'  
 D = stick-up at surface 2'

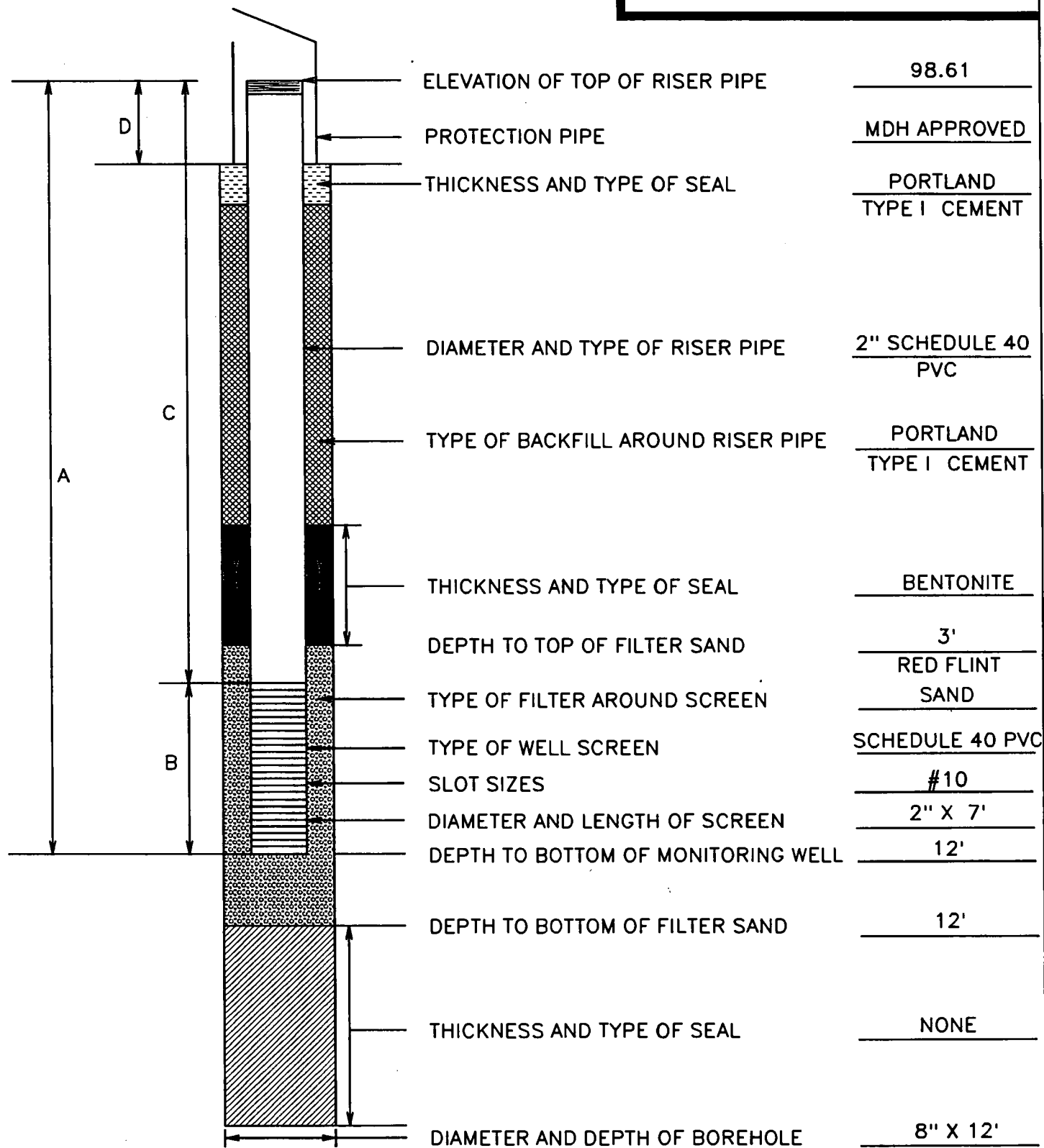
MONITORING WELL MW-2  
 DATE INSTALLED 3/28/95  
 DRILLER/RIG HSA  
 GROUND SURFACE ELEV. 95.96  
 WATER LEVELS  
 static: \_\_\_\_\_





SITE NAME LESTER PARK GOLF COURSE  
 MINNESOTA UNIQUE WELL NO. 559218  
 A = total length of well 14'  
 B = length of well screen 7'  
 C = length of riser pipe 7'  
 D = stick-up at surface 2'

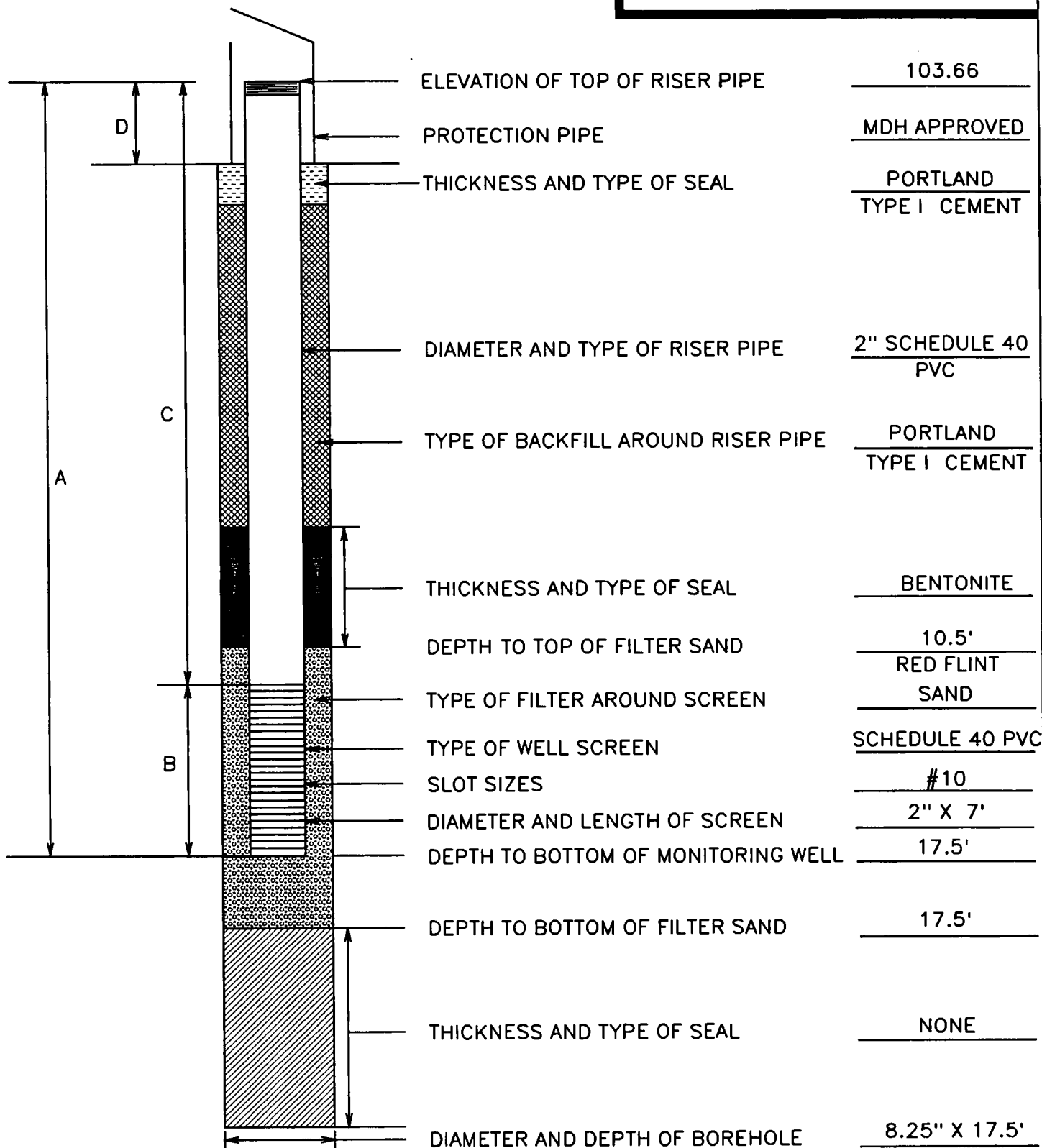
MONITORING WELL MW-3  
 DATE INSTALLED 3/28/95  
 DRILLER/RIG HSA  
 GROUND SURFACE ELEV. 96.34'  
 WATER LEVELS  
 static: \_\_\_\_\_





SITE NAME LESTER PARK GOLF COURSE  
 MINNESOTA UNIQUE WELL NO. 567885  
 A = total length of well 20'  
 B = length of well screen 5'  
 C = length of riser pipe 15'  
 D = stick-up at surface 2.5'

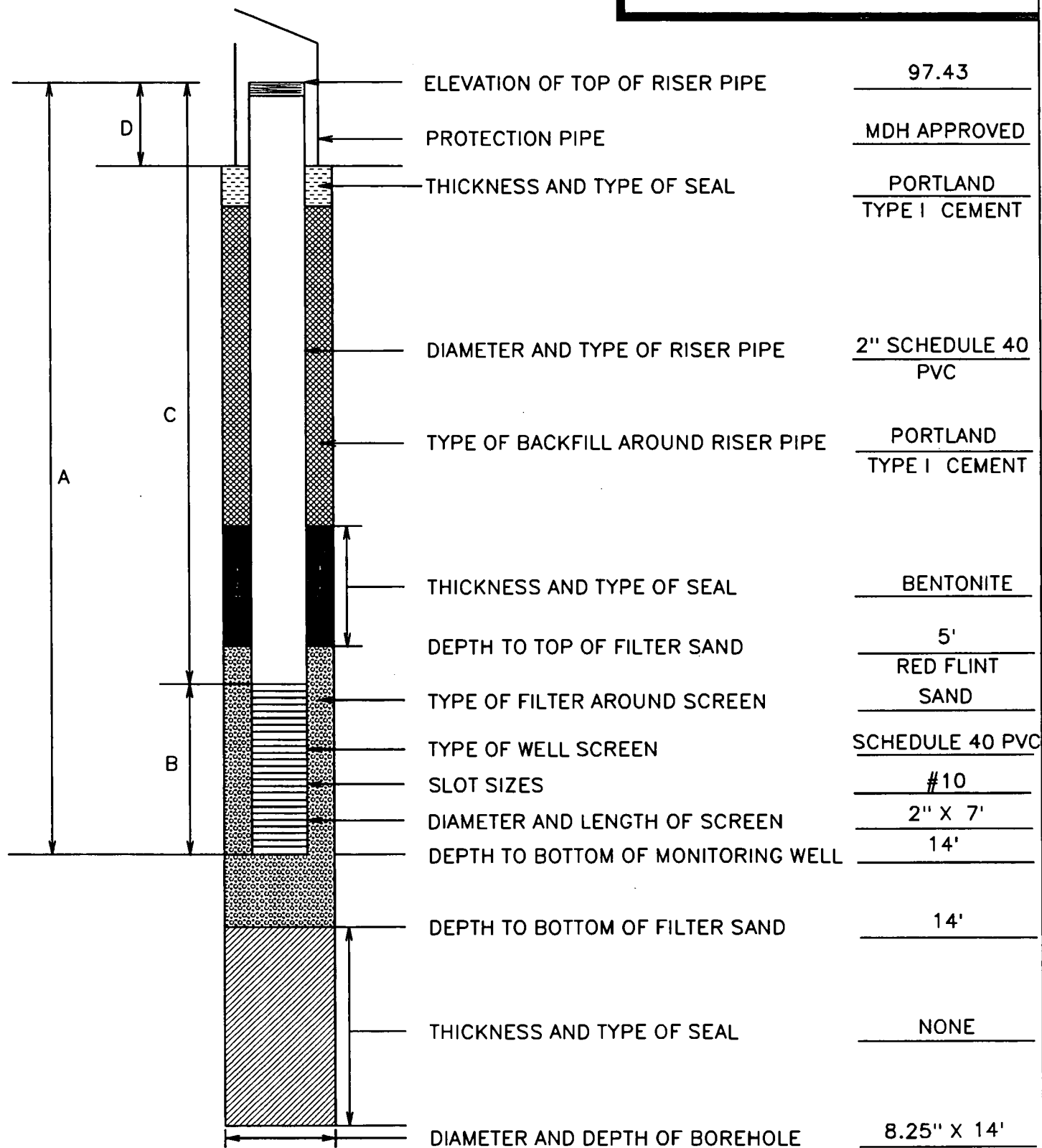
MONITORING WELL MW-4  
 DATE INSTALLED 4/29/96  
 DRILLER/RIG HSA  
 GROUND SURFACE ELEV. 100.88  
 WATER LEVELS  
 static: \_\_\_\_\_





SITE NAME LESTER PARK GOLF COURSE  
 MINNESOTA UNIQUE WELL NO. 567886  
 A = total length of well 17'  
 B = length of well screen 7'  
 C = length of riser pipe 10'  
 D = stick-up at surface 3'

MONITORING WELL MW-5  
 DATE INSTALLED 4/29/96  
 DRILLER/RIG HSA  
 GROUND SURFACE ELEV. 94.25  
 WATER LEVELS  
 static: \_\_\_\_\_





## WELL LOCATION

County Name

ST LOUIS

## MINNESOTA DEPARTMENT OF HEALTH

## WELL RECORD

Minnesota Statutes Chapter 103I

MINNESOTA UNIQUE WELL NO.

559216

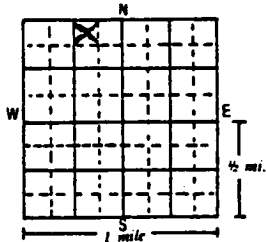
Ownership Name City of Duluth Township No. 50 Range No. 13 Section No. 4 Fraction NW 1/4 NE 1/4 NW 1/4

Commercial Street Address and City of Well Location

1860 Lester River Road

How exact location of well in section grid with "X".

Sketch map of well location. Showing property lines, roads and buildings.



## PROPERTY OWNER'S NAME

City of Duluth

Mailing address if different than property address indicated above.

Bob Troolin  
City of Duluth  
313 City Hall  
Duluth, MN 55802

WELL DEPTH (completed)

18

Date Work Completed

March 27, 1995

## DRILLING METHOD

☐ Cable Tool  
☒ Auger  
☐☐ Driven  
☐ Rotary☐ Dug  
☐ Jetted

## DRILLING FLUID

NONE

## USE

☐ Domestic  
☐ Irrigation  
☐ Test Well☒ Monitoring  
☐ Public  
☐ Dewatering☐ Heating/Cooling  
☐ Industry/Commercial  
☐ Remedial  
☐

## CASING

☐ Steel  
☒ PlasticDrive Shoe? ☐ Yes ☒ No☒ Threaded  
☐ Welded

## HOLE DIAM.

## CASING DIAMETER

2 in. to 8 ft.

## WEIGHT

8 in. to 18 ft.8 in. to 18 ft.8 in. to 18 ft.8 in. to 18 ft.

## SCREEN

Make Johnson  
Type SCH 40 PVC

## OPEN HOLE

from 7 ft. to 10 ft.Slot/Gauze 10Length 10'Set between 8 ft. and 18 ft. FITTINGS: Flush Threaded

## STATIC WATER LEVEL

10 ft. ☒ below ☐ above land surface Date measured 3/27/95

## PUMPING LEVEL (below land surface)

N/A ft. after        hrs. pumping        g.p.m.

## WELL HEAD COMPLETION

☐ Pitless adapter manufacturer        Model       ☒ Casing Protection STEEL ☒ 2 in. above grade

## GROUTING INFORMATION

Well grouted? ☒ Yes ☐ NoGrout Material ☒ Neat cement ☒ Mortarfrom 0 to 6 ft.        yds. ☐ bagsfrom        to        ft.        yds. ☐ bagsfrom        to        ft.        yds. ☐ bags

## NEAREST KNOWN SOURCE OF CONTAMINATION

30 feet NW direction petroleum typeWell disinfected upon completion? ☐ Yes ☒ No

## PUMP

☒ Not installedDate installed       Manufacturer's name       Model number        HP        Volts       Length of drop pipe        ft. Capacity        g.p.m.Pressure Tank Capacity       Type: ☐ Submersible ☐ L.S. Turbine ☐ Reciprocating ☐ Jet ☐

## ABANDONED WELLS

Does property have any not in use and not sealed well(s)? ☐ Yes ☒ No

## WELL CONTRACTOR CERTIFICATION

This well was drilled under my supervision and in accordance with Minnesota Rules, Chapter 4725. The information contained in this report is true to the best of my knowledge.

EARTH BURNERSMD142

Licensee Business Name

Lic. or Reg. No.

Charles Conway

Authorized Representative Signature

3/29/95

Date

Name of Driller

Date

REMARKS. ELEVATION, SOURCE OF DATA, etc.

94126 Lester Park Golf Course  
MW-1



## WELL LOCATION

County Name

St Louis

## MINNESOTA DEPARTMENT OF HEALTH

## WELL RECORD

Minnesota Statutes Chapter 1031

MINNESOTA UNIQUE WELL NO.

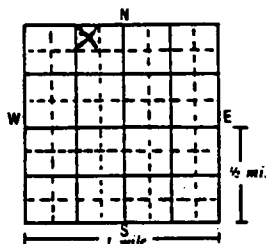
559217

Township Name City of Duluth Township No. 50 Range No. 13 Section No. 4 Fraction NW 1/4 NW 1/4

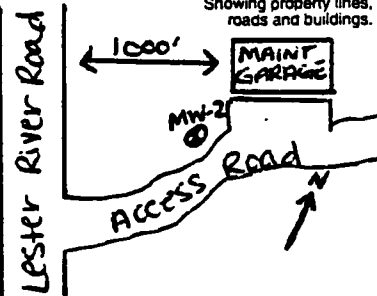
Commercial Street Address and City of Well Location

1860 Lester River Road

Show exact location of well in section grid with "X".



Sketch map of well location. Showing property lines, roads and buildings.



## PROPERTY OWNER'S NAME

City of Duluth

Mailing address different than property address indicated above.

Bob Troolin  
City of Duluth  
313 City Hall  
Duluth, MN 55802

WELL DEPTH (completed)

ft. Date Work Completed

15

March 28, 1995

## DRILLING METHOD

☐ Cable Tool  
☐ Auger  
☐☐ Driven  
☐ Rotary☐ Dug  
☐ Jetted

## DRILLING FLUID

N/A

## USE

☐ Domestic  
☐ Irrigation  
☐ Test Well☒ Monitoring  
☐ Public  
☐ Dewatering☐ Heating/Cooling  
☐ Industry/Commercial  
☐ Remedial

## CASING

☐ Steel  
☒ PlasticDrive Shoe? ☐ Yes ☒ No☒ Threaded ☐ Welded

## HOLE DIAM.

## CASING DIAMETER

2

in. to 8

ft.

## WEIGHT

lbs./ft.

8

in. to 15

ft.

## SCREEN

Make Johnson

Type Sch 40 PVC

Slot/Gauge 10

Set between 8

ft. and 15

ft.

## OPEN HOLE

from 0

ft. to 2

ft.

ft.

Fittings: Flush Threaded

## STATIC WATER LEVEL

10

ft.

☒ below☐ above land surface

Date measured

3/28/95

## PUMPING LEVEL (below land surface)

N/A

ft. after

hrs. pumping

g.p.m.

## WELL HEAD COMPLETION

☐ Pitless adapter manufacturer

Model

☒ Casing Protection Steel Fiser

K 12 in. above grade

## GROUTING INFORMATION

Well grouted? ☒ Yes ☐ NoGrout Material ☒ Neat cement ☒ Grout

from 0

ft. to 6

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

ft.

## NEAREST KNOWN SOURCE OF CONTAMINATION

40

feet

North

direction

Petroleum

type

Well disinfected upon completion? ☐ Yes ☒ No

## PUMP

☒ Not installed

Date installed

Manufacturer's name

Model number

HP

Volts

Length of drop pipe

ft.

Capacity

g.p.m.

Pressure Tank Capacity

Type: ☐ Submersible ☐ L.S. Turbine ☐ Reciprocating ☐ Jet ☐

## ABANDONED WELLS

Does property have any not in use and not sealed well(s)? ☐ Yes ☒ No

## WELL CONTRACTOR CERTIFICATION

This well was drilled under my supervision and in accordance with Minnesota Rules, Chapter 4725. The information contained in this report is true to the best of my knowledge.

EARTH BURNERS

M0142

Licensee Business Name

Lic. or Reg. No.

Charles Conway

Authorized Representative Signature

3/29/95

Date

Name of Driller

Date

## REMARKS: ELEVATION, SOURCE OF DATA, etc.

94126 Lester Park Golf Course  
MW-2

Use a second sheet, if needed



## WELL LOCATION

County Name

ST LOUIS

MINNESOTA DEPARTMENT OF HEALTH

## WELL RECORD

Minnesota Statutes Chapter 1031

MINNESOTA UNIQUE WELL NO.

559218

Township Name CITY OF DULUTH Township No. 50 Range No. 13 Section No. 4 Fraction NW-NE NW

WELL DEPTH (completed)

12

Date Work Completed

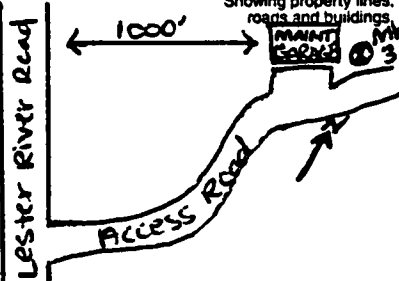
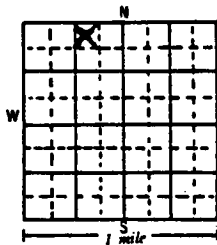
March 28, 1995

Municipal Street Address and City of Well Location

1860 Lester River Rd

Show exact location of well in section grid with "X".

Sketch map of well location. Showing property lines, roads and buildings.



DRILLING METHOD

☐ Cable Tool  
☐ Auger  
☐
☐ Driven  
☐ Rotary

☐ Dug  
☐ Jetted

DRILLING FLUID

none

USE

☐ Domestic  
☐ Irrigation  
☐ Test Well

☒ Monitoring  
☐ Public  
☐ Dewatering

☐ Heating/Cooling  
☐ Industry/Commercial  
☐ Remedial

CASING

☐ Steel  
☒ Plastic

Drive Shoe?

☐ Yes  
☒ No

☒ Threaded  
☐ Welded

HOLE DIAM.

CASING DIAMETER

2

in. to

5

ft.

WEIGHT

2

in. to

5

ft.

lbs./ft.

8

in. to

12

ft.

lbs./ft.

8

in. to

12

ft.

SCREEN

Make

Type

Slot/Gauge

Set between

5

ft. and

12

ft.

FITTINGS:

OPEN HOLE

from

ft. to

ft.

Diam.

2"

Length

5'

STATIC WATER LEVEL

9

ft. X below

above land surface

Date measured

PUMPING LEVEL (below land surface)

N/A

ft. after

hrs. pumping

g.p.m.

WELL HEAD COMPLETION

☐ Pitless adapter manufacturer

☒ Casing Protection

Steel riser

☐ 12 in. above grade

GROUTING INFORMATION

Well grouted?

☒ Yes  
☐ No

Grout Material

☒ Neat cement  
☒ Benton

from

0

to

4

ft.

☐ yds. ☐ bags

from

ft.

☐ yds. ☐ bags

from

ft.

☐ yds. ☐ bags

NEAREST KNOWN SOURCE OF CONTAMINATION

40

feet

NE

direction

petroleum type

Well disinfected upon completion?

☐ Yes  
☒ No

PUMP

☒ Not installed

Date installed

Manufacturer's name

Model number

HP

Volts

Length of drop pipe

ft.

Capacity

g.p.m.

Pressure Tank Capacity

Type: ☐ Submersible ☐ L.S. Turbine ☐ Reciprocating ☐ Jet ☐

ABANDONED WELLS

Does property have any not in use and not sealed well(s)?

☐ Yes  
☒ No

WELL CONTRACTOR CERTIFICATION

This well was drilled under my supervision and in accordance with Minnesota Rules, Chapter 4725.

The information contained in this report is true to the best of my knowledge.

EARTH BURNER

Licensee Business Name

M0142

Lic. or Reg. No.

Charles Conway

Authorized Representative Signature

3/29/95

Date

Name of Driller

Date

GEOLOGICAL MATERIALS

COLOR

HARDNESS OF MATERIAL

FROM

TO

Clay

Red Brown

Soft

0

12

Use a second sheet, if needed

REMARKS, ELEVATION, SOURCE OF DATA, etc.

94126 Lester Park MW-3  
GOLF COURSE

MINN. DEPT. OF HEALTH COPY

559218

PCA04-1583

HE-01205-04 (Rev. 5/92)



## WELL LOCATION

MINNESOTA DEPARTMENT OF HEALTH  
WELL AND BORING RECORD

MINNESOTA UNIQUE WELL NO.

567885

Minnesota Statutes Chapter 103I

County Name

St Louis

Township Name

Township No.

Range No.

Section No.

Fraction

WELL DEPTH (completed)

ft.

Date Work Completed

City of Duluth 50N 13W 4 NW 1/4 NE 1/4 NW 1/4

14'

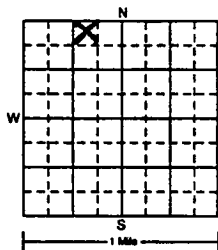
4-29-96

House Number, Street Name, City, and Zip Code of Well Location

or Fire Number

1860 Lester River Rd

Show exact location of well on section grid with "X".

Sketch map of well location.  
Showing property lines,  
roads and buildings.

MW-4

Grass Area

Building

Service Road

PROPERTY OWNER'S NAME

City of Duluth

Property owner's mailing address if different than well location address indicated above.

313 City Hall  
Duluth, MN 55802

DRILLING METHOD

☐ Cable Tool  
☒ Auger  
☐☐ Driven  
☐ Rotary☐ Dug  
☐ Jetted

DRILLING FLUID

No

USE

☐ Domestic  
☐ Irrigation  
☐ Test Well☒ Monitoring  
☐ Community PWS  
☐ Noncommunity PWS  
☐ Dewatering☐ Heating/Cooling  
☐ Industry/Commercial  
☐ Remedial

CASING

☐ Steel  
☒ Plastic

Drive Shoe?

☐ Yes  
☒ Threaded  
☐ Welded

HOLE DIAM.

CASING DIAMETER

2 in. to 13 ft.

WEIGHT

8.25 in. to 17.5 ft.

SCREEN

Make Johnson

Type SCH 40

Slot/Gauge 0.010

Set between 14.0' ft. and 9.0' ft.

OPEN HOLE

from ft. to ft.

Diam. 2"

Length 5'

FITTINGS: Bottom Flush Threaded

STATIC WATER LEVEL

2" ft. ☐ below ☒ above land surface Date measured 4-29-96

PUMPING LEVEL (below land surface)

ft. after NA hrs. pumping g.p.m.

WELL HEAD COMPLETION

☐ Pileless adapter manufacturer☒ Casing Protection 16" SCH 40 Steel

Model

in. above grade

☐ At-grade (Environmental Wells and Borings ONLY)

3'

GROUTING INFORMATION

Well grouted? ☒ Yes ☐ NoGrout Material ☒ Neat cement ☒ Bentonite ☐ Concrete ☐ High Solids BentoniteBentonite Cement from 7' to 5' ft. 1.5 yds. ☒ bagsfrom 5' to 0' ft. 2.0 yds. ☒ bagsfrom to ft. yds. ☐ bags

NEAREST KNOWN SOURCE OF CONTAMINATION

200 feet South direction Diesel/Gas type

Well disinfected upon completion? ☐ Yes ☐ No

PUMP

☐ Not installed

Date installed NA

Manufacturer's name

Model number

HP

Volts

Length of drop pipe ft. Capacity g.p.m.

Pressure Tank Capacity

Type: ☐ Submersible ☐ L.S. Turbine ☐ Reciprocating ☐ Jet ☐

ABANDONED WELLS

Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

VARIANCE

Was a variance granted from the MDH for this well? ☒ Yes ☐ No

WELL CONTRACTOR CERTIFICATION

This well was drilled under my supervision and in accordance with Minnesota Rules, Chapter 4725.

The information contained in this report is true to the best of my knowledge.

Earth/Burners MO142

Licensee Business Name

Lic. or Reg. No.

Charles Conway

Authorized Representative Signature

Date

Paul P. Kilpela 4-29-96

Name of Driller

Date

GEOLOGICAL MATERIALS	COLOR	HARDNESS OF MATERIAL	FROM	TO
Silty Clay	Red	Hard	0	10
Silty Fine Sand	Brown	Firm	10	12

Use a second sheet, if needed

REMARKS, ELEVATION, SOURCE OF DATA, etc.

MW 4

MINN. DEPT. OF HEALTH COPY

567885

HE-01205-05 (Rev. 1/95)

PCA04-1584



WELL LOCATION  
County Name St. Louis

MINNESOTA DEPARTMENT OF HEALTH  
**WELL AND BORING RECORD**  
Minnesota Statutes Chapter 103I

MINNESOTA UNIQUE WELL NO.

**567886**

Township Name City of Duluth Township No. 50N Range No. 13W Section No. 4 Fraction NW 1/4 NE 1/4 NW 1/4

WELL DEPTH (completed) 13' ft. Date Work Completed 4-29-96

House Number, Street Name, City, and Zip Code of Well Location 1860 Lester River Rd or Fire Number

DRILLING METHOD  
☐ Cable Tool ☐ Driven ☐ Auger ☐ Rotary ☐ Jetted

Show exact location of well in section grid with "X". Sketch map of well location. Showing property lines, roads and buildings.

DRILLING FLUID None

USE  
☐ Domestic ☒ Monitoring ☐ Heating/Cooling  
☐ Irrigation ☐ Community PWS ☐ Industry/Commercial  
☐ Test Well ☐ Noncommunity PWS ☐ Remedial  
☐ Dewatering

CASING ☐ Steel ☒ Plastic Drive Shoe? ☐ Yes ☒ No ☐ Welded ☐ Threaded HOLE DIAM. 8.25 in. to 14 ft.

CASING DIAMETER 2 in. to 13 ft. WEIGHT 8.25 in. to 14 ft.  
       in. to        ft.        lbs./ft.        in. to        ft.  
       in. to        ft.        lbs./ft.        in. to        ft.

SCREEN Make Johnson OPEN HOLE from        ft. to        ft.  
Type SCH 40 Diam. 2'  
Slot/Gauge 0.010 Length 7  
Set between 13 ft. and 6 ft. FITTINGS Flush Bottom Threaded

STATIC WATER LEVEL 2 ft. ☒ below ☐ above land surface Date measured 4-29-96

PUMPING LEVEL (below land surface)        ft. after NA hrs. pumping        g.p.m.

WELL HEAD COMPLETION  
☐ Pitless adapter manufacturer Model         
☒ Casing Protection SCH 40 Steel ☒ in. above grade  
☐ At-grade (Environmental Wells and Borings ONLY) 37

GROUTING INFORMATION  
Well grouted? ☒ Yes ☐ No  
Grout Material ☒ Neat cement ☒ Bentonite ☐ Concrete ☐ High Solids Bentonite  
Bentonite from 4 to 3 ft. 1 yds. ☒ bags  
cement from 3 to 0 ft. 1.5 yds. ☒ bags  
from        to        ft.        yds. ☐ bags

NEAREST KNOWN SOURCE OF CONTAMINATION 75 feet North direction Diesel/Gas type  
Well disinfected upon completion? ☐ Yes ☒ No

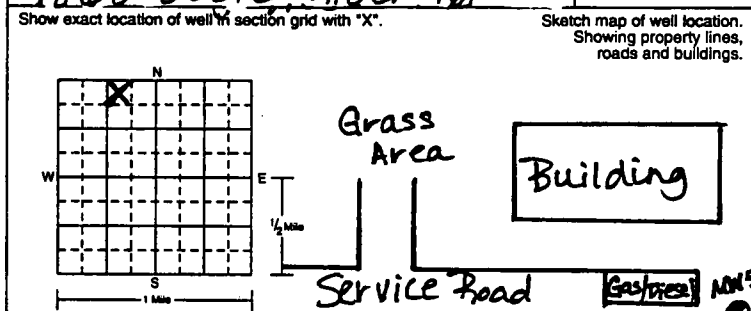
PUMP  
☐ Not installed Date installed NA  
Manufacturer's name        HP        Volts         
Length of drop pipe        ft. Capacity        g.p.m.  
Pressure Tank Capacity         
Type: ☐ Submersible ☐ L.S. Turbine ☐ Reciprocating ☐ Jet ☐       

ABANDONED WELLS  
Does property have any not in use and not sealed well(s)? ☐ Yes ☐ No

VARIANCE  
Was a variance granted from the MDH for this well? ☒ Yes ☐ No

WELL CONTRACTOR CERTIFICATION  
This well was drilled under my supervision and in accordance with Minnesota Rules, Chapter 4725. The information contained in this report is true to the best of my knowledge.

Earth Burners M0142  
License Business Name Lic. or Reg. No.  
Charles Conway  
Authorized Representative Signature Date       



PROPERTY OWNER'S NAME City of Duluth

Property owner's mailing address if different than well location address indicated above.  
313 City Hall  
Duluth, MN 55802

WELL OWNER'S NAME SAME

Well owner's mailing address if different than property owner's address indicated above.

GEOLOGICAL MATERIALS	COLOR	HARDNESS OF MATERIAL	FROM	TO
<u>Clay</u>	<u>Red</u>	<u>Hard</u>	<u>0</u>	<u>4</u>
<u>Silty Clay</u>	<u>Red</u>	<u>Hard</u>	<u>4</u>	<u>7</u>
<u>Silty Fine Sand</u>	<u>Brown-Red</u>	<u>Firm</u>	<u>7</u>	<u>9</u>
	<u>Brown</u>	<u>Firm</u>	<u>9</u>	<u>13</u>

Use a second sheet, if needed

REMARKS, ELEVATION, SOURCE OF DATA, etc.

MW-5

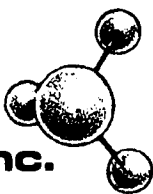
PCA04-1585



X



SINCE 1972



1301 NORTH THIRD STREET ■ SUPERIOR, WISCONSIN 54880  
FAX # 715-392-7163 ■ (715) 392-7114

July 26, 1990  
TPT# 91-90E

City of Duluth  
Administrative Services  
313 City Hall  
Duluth, Minnesota 55802

Attn: Mr. Robert Troolin

Re: Excavation Report, City of Duluth  
Lester Park Golf Course Maintenance Shop  
MPCA ID# 5358

Dear Mr. Troolin,

Enclosed you will find a report for the environmental monitoring conducted during the excavation of underground petroleum storage tanks (UST's) and petroleum contaminated soils from April 24 through May 7, 1990 at the Lester Park Golf Course Maintenance Shop. The report consists of a Minnesota Pollution Control Agency (MPCA) "Underground Storage Tank Removal Information Form" and an Excavation Report.

The work performed by Twin Ports Testing, Inc. (TPT) consisted of onsite observations, soil vapor screening, sampling of soil for laboratory analyses and compilation of data for this report. UST removal, soil excavation and soil treatment have been conducted by Anderson Sand and Gravel and Demolition of Saginaw, Minnesota. Laboratory analyses were conducted by Serco Laboratories of St. Paul, Minnesota.

Soil vapor screening and laboratory analyses of soil samples collected from the final excavation indicated petroleum contamination remains in soils at the base and walls of the excavation. The base of the excavation coincides with the depth of groundwater indicating that groundwater has been impacted. The lateral limits of contamination were not reached by excavation due to constraints by utilities, the road and the building. The extent of contamination at and below the watertable is unknown.

It is important to note that recent guidelines published by the MPCA (April and May 1990), state that a Remedial Investigation (RI) is necessary to assess closure of tank release sites if soil contamination exists above the soil vapor action levels of 10 parts per million (ppm) and/or if laboratory results from soil samples taken from the base or sidewalls of the excavation are greater than 50 ppm total petroleum hydrocarbons. An RI is required if the release has affected groundwater.

**RECEIVED**

AUG 17 1990

**MPCA, HAZARDOUS  
WASTE DIVISION**

PCA04-1588



We have recommended that soil borings be conducted to determine the extent and magnitude of soil and groundwater contamination at the site. The results of the soil boring survey would be used to determine if further RI work or cleanup action is necessary. Upon completion of the investigation, an RI report should be completed which can be submitted to the MPCA for review along with this Excavation Report.

Upon your request, TPT will produce a proposal for an RI including a work plan and cost estimates for onsite investigative work, comprehensive reporting and a Corrective Action Design (CAD).

We would like to thank you for allowing us to be of service to you on this important project. If you have any questions concerning this report or a proposal for further investigative work, please feel free to call us anytime. We look forward to hearing from and working with you in the near future.

Sincerely,

A handwritten signature in cursive script, appearing to read "Rick J. Palm", is written over a horizontal line.

Rick J. Palm, Geologist  
Twin Ports Testing, Inc.

RJP:sk



## TABLE OF CONTENTS

<u>Contents</u>	<u>Page</u>
Underground Storage Tank Removal Information Form .....	1
Location .....	2
Background Information .....	2
Site Geology .....	2
Surface Expressions .....	3
Surface Material .....	3
Excavation Process .....	3
Materials Encountered .....	5
Groundwater Observations .....	6
Soil Testing Procedures .....	6
Areas of Contamination .....	6
Soil Samples .....	7
Condition & Description of Tanks .....	7
Handling of Contaminated Soils .....	8
Discussion .....	8
Risk Assessment .....	9
Conclusions .....	9
Recommendations .....	10

### Figures

Figure 1	Site Location Map
Figure 2	Soil Borings Data and Well Sites
Figure 3	Maintenance Shop Site Map
Figure 4	Excavation of Tanks #1 & #2
Figure 5	Vapor Headspace Readings Initial Excavation
Figure 6	Excavation Showing Exploration Trenches
Figure 7	Final Excavation and Vapor Readings
Figure 8	Soils Analysis Results Tested Hydrocarbon

### Tables

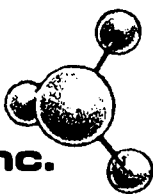
Table 1.	Summary of Headspace Analysis
Table 2.	Summary of Soil Laboratory Analysis

### Appendix A:

Laboratory Analysis Report No. 1131
Chain of Custody Record
Flash Point Report, Fluid Sample #1



SINCE 1972



1301 NORTH THIRD STREET ■ SUPERIOR, WISCONSIN 54880  
FAX # 715-392-7163 ■ (715) 392-7114

**TWIN PORTS TESTING inc.**

**Underground Storage Tank Removal Information Form**

This form is provided to tank owners and operators, fire department representatives and others to assist the observation of underground storage tank removals. It is the legal duty of the tank owner and operator to report any evidence of petroleum contamination to the Minnesota Pollution Control Agency.

Observer: Jack Granquist Date: April 24, 1990 Time:

Signature:

Organization: Twin Ports Testing, Inc.

TPT Job #: 91-90E

Position: Environmental Scientist

Address: 1301 N. Third Street, Superior, Wisconsin 54880

Phone: (715) 392-7114 Fax: (715) 392-7163

**TANK INFORMATION**

Tank Owner Name: City of Duluth

MPCA ID#: 5358

Contact Person: Bob Troolin

Title: Risk Management Specialist

Tank Location: Lester Park Golf Course Maintenance Shop

Address: 1860 Lester River Road Duluth, Minnesota 55804

County: St Louis Phone: (218) 723-3291

Excav. Contractor: Anderson Sand, Gravel, and Demolition 4597 Old Hwy 53 Saginaw, MN 55779

<u>TANK</u>	<u>CONDITION &amp; SIZE</u>	<u>CONTENTS (PRODUCT)</u>	<u>VISIBLE CORROSION</u>	<u>VISIBLE LEAKAGE</u>	<u>SOIL CONTAMINATION</u>
#1	350 gallon	Gasoline	Yes	Yes	Yes
#2	265 gallon	Unknown	Yes	No	Yes

**SOIL CONDITIONS WITHIN EXCAVATION**

- |     |  |     |
|-----|--|-----|
| 1.  | Detectable petroleum contamination was found?                  | Yes |
| 2.  | Petroleum Odors (moderate)                                     | Yes |
| 3.  | Visible petroleum product in soil?                             | Yes |
| 4.  | Sheen on water mixed with soil?                                | Yes |
| 5.  | Sheen on ground water in excavation?                           | Yes |
| 6.  | Petroleum product on ground water in excavation?               | Yes |
| 7.  | Vapor detection instrument used (HNU PI-101)                   | Yes |
| 8.  | Soil samples taken from under tank(s)                          | Yes |
| 9.  | Soil type: Moist Silty-Sandy Clay with Gravel (Glacial Till)   |     |
| 10. | Pictures taken: no   |     |
| 11. | Tank disposed by: Cliff Anderson Where: Anderson Shop Location |     |

The Minnesota Pollution Control Agency (MPCA) must be notified immediately of any evidence of petroleum contamination.

24 Hour Emergency or Spill Number:

612-296-8100

Business Hours:

612-296-7235 or

612-296-7709



## EXCAVATION REPORT

### Location:

Lester Park Golf Course Maintenance Shop, 1860 Lester River Road, Duluth, Minnesota 55804. The location is shown in Figure 1.

### Background Information:

The maintenance shop and surrounding area serves as the center of activity for equipment maintenance, grounds keeping, and irrigation for the Lester Park Golf Course. The UST's were used to refuel light-duty vehicles and gasoline powered golf carts.

The UST had been in service up until the Spring of 1989. During the Winter of 1988-89, it had been left half full of gasoline. When pumped early in the season the tank contained a large amount of water. It was then pumped dry and left in the ground until it was removed during the Spring of 1990 (described below).

The irrigation source for the course sprinkler system comes from a large reservoir pond located north and west of the shop area (see Figure #3). This reservoir is filled from five wells surrounding the pond. These wells are reported to be an average of 540 feet deep, drilled into bedrock. Prior to the drilling of these source wells the irrigation system was fed by a 6 inch City of Duluth water main that enters the pond at the southwest side. Although not being utilized because of the new well system, this water source is still available. The irrigation system distributes water from the reservoir pond, pumping from a pump station (northwest corner of the pond near well #3) through underground pipes that pass close to the UST removal site. All surface ponds are lined with an 18 inch base of clay that prevents water loss into native soils and also reduces the interaction of ground water with the pond water.

The area just south of the UST's and maintenance shop road is utilized for growing nursery grasses for green and fairway repair. Course maintenance foreman, Glen Oliver, stated that there has never been a problem with the productivity of the sites and that if there was petroleum product in contact with the seed grasses, it would be readily apparent.

### Site Geology:

The Lester River Golf Course is located over bedrock identified as the North Shore Volcanic Group (geologic age 1,100 million years) that consists of basalt and related rocks of igneous origin.

The bedrock is overlain by glacial sediments deposited in the Pleistocene Epoch, late Wisconsin Age. These sediments are associated with the Nickerson Moraine Association and consist primarily of clayey till (locally calcareous) resulting from the incorporation of proglacial lake sediments. More specifically at



Lester Park, the sediments are elements of ground moraine including clayey till that is an unsorted and unstratified mixture of all sizes of rock material deposited directly by glacial ice with little or no reworking by water.

The overall golf course strata has been investigated using soil boring analysis. This work was conducted in conjunction with golf course improvements and expansion by Richard M. Phelps, Golf Course Architect, P.O. Box 3295 Evergreen, Colorado 80439. A portion of these data are shown in Figure #2, which depicts soil boring sites and strata identified at each location between the ground surface and bedrock. Information was provided to TPT by the contractor, Park Construction Co.

Date:

Excavation and Tank Removal took place on Tuesday April 24, 1990. Further excavation of contaminated soils continued on Thursday May 3rd, Friday May 4th, and Monday May 7th.

Weather:

On April 24 it was sunny and warm with rain showers over the noon hour and heavy rains that evening. From the time of tank removal and 9 days later when excavation of contaminated soils was resumed there were accumulations of rain. The weather conditions after the excavation of contaminants resumed (May 3rd) were predominately cool with a lake wind and not much precipitation.

Time of Excavation:

Excavation started at 9:30 AM. The tanks were out of the ground at 10:52 AM. Further excavation of contaminated soils lasted the rest of the day. Excavation on the following days resumed at 8:30 - 9:00 AM and continued until 4:30 - 5:00 PM.

Surface Expressions:

The USTs were located beneath a driveway and parking area for commercial vehicles that gently sloped to the south into a 12" ditch separating the access road from the golf course nursery area.

Surface Material:

The surface of the excavation was a packed gravel driveway with a cold mix asphalt ramp for garage door entrance.

Excavation Process:

The excavation proceeded on 4/24/90 using a Case Backhoe 580E. Material around the UST was excavated, exposing the west side, the top of the UST, and the three underground pipes running to the pump. At this time a second UST, designated as Tank #2, was discovered. The UST had long since been abandoned, and its presence was unknown to the occupants. Both tanks contained fluids assumed to be primarily water. Midway Sewer Service arrived to pump both tanks. 400 gallons of fluid were removed from the site and disposed of at UPC (United Purification Co., Superior, WI). All underground pipes were cut and both tanks were lifted from the excavation by the backhoe operator. A hole was discovered during excavation of Tank #1. Considerable amount of liquid leaked out of the center



of the north end of the tank prior to pumping. A visual estimate of the amount of fluid lost in the spill was between 5 and 10 gallons. A sample of the fluid (which had a strong odor of product) was taken for laboratory analysis. The fluid flowed into the excavation and pooled on the west side of Tank #1. A strong petroleum odor was apparent throughout the rest of the day.

Heavy rain showers occurred just before 12:00. The excavation stockpile was pushed back into the hole to prevent collapse of the excavation walls by the storm runoff. After the weather cleared, the material was re-excavated and as much of the contaminated material was removed from the site as possible. Four 12 yard trucks (estimated 48 yards) of material was removed from the site to Anderson Site #4 on 4/24/90. With heavy rains expected that evening, the excavated stockpile was again pushed into the hole to prevent surface contamination from stockpile runoff and the collapse of the excavation walls. Further excavation of contaminants was rescheduled to a later date.

The site excavation was resumed on Thursday, May 3. The excavation had filled up with rainwater and runoff over the interval. A water sample was taken prior to removal of the water. There was no visible sheen on the water surface and no odor. Only small accumulations of cohesive bubbles were scattered on the water surface. Midway Sewer Service arrived and removed 1000 gallons and transported it to WLSSD.

The backhoe operator arrived on site and immediately started to remove material from the hole that had been put back in during the rain. Midway Sewer returned for a second load of 1000 gallons for WLSSD. It was decided to excavate small test trenches surrounding the site in an effort to determine the extent of contamination away from the former tank location without having to dig up the entire area. The small test trenches would not be accidentally contaminated from material within the main excavation. The removal of contaminated material and bringing in of clean backfill continued all day.

Four test trenches were completed during the course of the day. Trenches #1, #2, and #4, located on the west, south, and east of the excavation proved to be contaminated (See Table 1 and Figure #6). Test Trench #3, located due south and across the driveway proved to be free of contamination and consisted entirely of lean clay material. The test trenches were backfilled with the same soil immediately thereafter.

On the following day (May 4) Rick Palm, a TPT geologist visited the site. It appeared that contamination had migrated through a lens of porous reddish brown silty sand. Since the excavation site was located within the busy maintenance area of the open golf course, some decisions had to be made regarding further



action. The site was tightly confined by the shop building to the north, buried telephone line to the east, the main access driveway and buried telephone line to the south, and drain tile and main course underground irrigation lines to the west (See Figure #4). The conclusion was to scrape away the top clean surface material and stockpile and reuse it for backfill. Excavate to within a reasonable distance from the obstacles, sample, and backfill with clean material. This work proceeded the rest of the day. The site was visited by Dick Olson, a City of Duluth Street Department Supervisor. He requested that no further backfill be hauled in by the contractor, and that any material needed would be provided by the city.

Excavation of contaminants toward the east was resumed on Monday, 5/8/90, at a point 12 feet east of the prior excavation. Excavation started from a new hole in line with Test Trench #4 (see Figure #6). Excavation working back toward the center was done to avoid cross contamination from known contaminated material in the older pit. The top layer was again scraped away down to a layer of wood blocks (reported to be the floor of an old building on site). This top layer tested clean above the wooden blocks and care was taken not to get into known contaminated material. These blocks were excavated along with the contaminated soils. Excavation toward the east continued and samples were taken throughout. Clean native soils were encountered along the east and southeast walls.

The contractor received verbal authorization from Mr. Bob Troolin of the City of Duluth for closure at 12:15 PM and proceeded to clean out the hole at depth and to the southeast until either MPCA limits for clean closure were reached or a recognized structural barrier had been reached. Telephone service was accidentally interrupted when the backhoe operator broke the line at the southeast corner of the excavation. The excavation went as far as possible without disrupting the access areas of the site. All contaminated material was off site and backfilling proceeded at 2:30 PM. TPT personnel left the site when the excavation was 2/3 filled. City of Duluth trucks were hauling in street sweepings from a local site. Leveling off of site and minor parking improvements were to be made before the contractor left the site.

Materials Encountered:

There were three (3) distinct layers of material encountered during the excavation. Each are described below:

Unit 1. Surface material; angular gravel mixed with fines, a high concentration of which are reported to be street sweepings brought in by the City of Duluth Street Maintenance Department. Layer is generally 10-12" thick throughout. Just below this layer in the NW corner of the excavation was a layer of oily wood blocks that were used as the floor for an old structure on site.



Unit 2. Lean red clay with evenly mixed angular gravel embedded in it. Material is hard and compacted.

Unit 3. A reddish brown moist silty sand and clay; porous with seams or lenses of gravel encountered (areas of general "bleeding" of fluids back into the excavation). This is the material encountered at the level of the USTs and is the material that contains the high concentrations of product.

#### Groundwater Observations:

The excavation site is down slope from a topographic high point to the north and experiences surface runoff occurring from around the building and the roadways to the north. The supervisor of the maintenance shop reports of historically very muddy conditions over the excavation site during periods of heavy precipitation.

Upon first opening the hole on April 24th, pooling of water in the bottom of the open excavation was observed between 7-8 foot depth and thereafter was assumed to be the water table. After the heavy rain over the first weekend, the hole filled with water to 1.5 feet below the surface, acting as a catch basin. There was also trickling of groundwater from a seam in Unit 3 soils on the northwest corner of the excavation. Water trickling down the side of the excavation was also observed from the north center wall from a depth of 2 feet flowing under the layer of wood blocks and over Unit 2 soils (see background information). This flow of water continued throughout the time the excavation was open.

#### Soil Testing Procedures:

Soils exposed in the excavation and all materials in the stockpile were observed for evidence of contamination. Soil samples were periodically collected and analyzed in the field according to MPCA guidelines for "Jar Headspace Analytical Screening Procedures." The instrument used in the field was an HNU Model P1-101 organic vapor detector which is calibrated daily to benzene.

#### Areas of Contamination:

During the excavation process, product flowed out of Tank #1 and pooled into the sandy backfill material that it lay in. That material and the silty sand layer (Unit 3) showed very high and consistent organic vapor readings in all directions. The site had an obviously older UST (Tank #2) still in place that was abandoned in place some years earlier. Most samples were taken at 6-7 feet since that was generally considered to be above the water table at the site. The layer above was a very hard clay (Unit 2) and showed little sign of contamination. At depth some clay was encountered but no definite bedding pattern was found, which is typical of glacial till (see Site Geology).



Laboratory soil samples revealed the presence of gasoline in the area below Tank #1 in the area of the leak described during removal (Table 2, SS-2, 230 ppm). Soil samples, SS-7 and SS-16, indicated the presence of fuel oil at depth and to the south of the tank locations (Figure #8). Those concentrations were strong enough to cover up any gasoline in the sample (Table 2). It is possible that the unknown tank (Tank #2) at one time held fuel oil.

As expected of a maintenance shop area, there is evidence of surface contamination. Incidental spills and overflows occur. There are three above ground petroleum tanks on site. Only the gasoline tank indicated in Figure #4 is close to the excavation. Contaminated surface runoff was observed flowing down the north wall from the top of the clay layer. Another point of interest is the wooden block flooring that looked as though they were treated with a petroleum product that turned them black. It could be creosote or another petroleum coating used for a preservative.

Final vapor analysis readings of the excavation indicate that the east end indicated results below MPCA guidelines (see Figure #7, between 0 and 8 ppm @ 6-7 feet). High readings were predominant on the west side of the excavation and close to the building (see Figure #7). Contamination was associated with Unit 3 soils (silty sand/glacial till).

The fluid that spilled from Tank #1 was tested by the TPT Chemistry Department and recorded a flashpoint reading of 76 degree F., proving to be very volatile. The leak that occurred during the tank removal was registered with the MPCA and has been assigned Spill #2536. Chris Zadak of the MPCA has been appointed to follow up on the site.

#### Soil Samples:

As required by MPCA guidelines, one soil sample was collected from beneath each tank. Also, a sample of the contaminated stockpile and water samples were collected.

Laboratory analysis of soil samples revealed a strong presence of gasoline in the area below Tank #1 and associated with the leak described during its removal. Soil Sample #2 revealed 230 ppm when tested for total hydrocarbons as gasoline taken from a point below Tank #1. Soil samples #7 and #16 indicated the presence of fuel oil at depth and to the south of the tank locations. Concentrations were strong enough to mask the presence of any gasoline in the sample (Table 2).

#### Condition & Description of Tanks:

There were two petroleum storage tanks excavated at the site. Tank #1 was in good condition with no visible ruptures, but was leaking product profusely from one end at the time of removal. The UST was disturbed prior to being pumped dry. It is inconclusive how much fluid leaked out at this time.



Tank #2 was in very poor condition and was abandoned at the time of discovery. It contained 22 inches of what appeared to be ground water that was pumped prior to tank removal. Tank #2 had nine (9) puncture holes visible and was collapsed along both sides. This tank had been left in the ground when abandoned. The owners were unaware of its existence at the time of the excavation. The contents were not known at the time of extraction.

Handling of Contaminated Soils:

Contaminated soils were excavated and hauled to an approved site, Anderson Site #4, on the contractor's property for further treatment by thin spreading, aeration, and addition of organic fertilizer.

Discussion:

Both tanks were removed without much difficulty, except for leakage of fluids from (proving to have a high concentration of product) from Tank #1. The site was excavated in an attempt to dig out of the contamination, but the confines of roadways, structures, and utilities proved to be a problem. Limits of excavation were defined by the structures and utilities surrounding the site. Disruption of entry/exit on the only road into the Maintenance Shop was avoided.

Contamination on site was identified as gasoline, but also included fuel oil. When questioned on the use of fuel oil, employees related that fuel oil is the source of heat for the maintenance shop. There is also a diesel powered front end loader at the shop. Both use fuel oil from an above ground tank on the west end of the building. However, this does not discount the possibility that the unknown tank could have been an underground fuel oil storage tank. Oil products may have been introduced through the wooden block flooring of the former workshop. Soils with an oily sheen were noted directly beneath this flooring material which was discovered at the west side of the excavation. Laboratory analyses indicated fuel oil contamination in the west side of the excavation.

Migration of contaminants beyond the limits of the excavation in the subsurface was not determined. There was evidence of contaminant movement through the sandy lenses in the Unit 3 type soils. The extent of these lenses beyond the limits of the excavation is unknown.

The soil boring data from Phelps (Figure #2) indicate the silty sand to the north gives way to clay in near surface soils south of the Maintenance Shop. This change in geomorphology seems to follow the Lester River Valley. It might be that the soils closer to the river were deposited in a higher energy environment depositing coarse grained material closer to the river valley. The borings suggest that the subsoils to the south should be primarily clays and would inhibit subsoil migration.



A total of 396 cubic yards of contaminated material was hauled off the site to Anderson #4 Site, and 220 cubic yards of backfill material was brought in from the Anderson Pit with the balance of the clean fill was brought in by the City of Duluth. Once excavation limits were determined, the excavation was backfilled.

Risk Assessment:

The results of soil vapor and laboratory analysis of soil samples indicate that the excavation did not meet MPCA guidelines for clean closure. Authorization for closure of the site came from Bob Troolin, City of Duluth Risk Management Specialist and Project Director after conferring with officials from the MPCA.

Soils contamination is concentrated to the west of the tank locations and close to the building. It seems to be localized in a sandy clay glacial till below an clay layer. All water wells on site are deep and far enough away that it is unlikely that they would be affected by the release. These wells are used for irrigation, not drinking water. The risks to public health and the environment associated with this petroleum release is minimal.

Conclusions:

Contaminated soils remain at depth below the Maintenance Shop road and parking lot. The full extent of the contamination remains undetermined at this time.

The nursery areas near the maintenance shop and across the road do not and have not shown any effects of damage due to contaminants from the subsoil. Only limited soil vapors were detected in a test trench dug across the service road to the south.

The excavation was closed due to the proximity of structures and utilities. Further excavation would have disrupted the busy routine of the golf course maintenance activities.

The product that was held in Tank #2 was unknown when it was discovered. It was assumed that it was another gasoline tank for fueling of vehicles. The presence of fuel oil in laboratory samples indicate that the product in Tank #2 might have been #2 fuel oil or diesel fuel.

The former Maintenance Shop floor area was a potential source of surface contamination. Incidental spills and overflows occur in that environment. Contaminated surface runoff was observed flowing down the north wall from the top of the clay layer that underlies the wood blocks. Contamination could be coming directly off the wooden blocks or from spillage over time inside of the old shop. The coating looked like it could be creosote or another petroleum coating used for a preservative.

The site location is at least one-half mile from any residential area and is utilized as a recreational golf course. The wells on site are very deep and are used to feed well-sealed clay lined



ponds that will not mix with the groundwater or be used as drinking water.

A total of 396 cubic yards of contaminated material were hauled off the site to Anderson #4 Site, and 220 cubic yards of backfill material were brought in from the Anderson Pit with the balance of the clean fill brought in by the City of Duluth.

Recommendations:

~~The contamination at the site presents little risk to residential or commercial water sources in the area.~~ However, the extent of contamination found at the site was not fully determined or cleaned out by the excavation process.

It is recommended that further investigation be conducted to define the extent of soil and groundwater contamination. We recommend soil borings be placed around and down slope from the release site.

This report was completed in June, 1990.

**TWIN PORTS TESTING, INC.**

Written and Prepared by:

  
\_\_\_\_\_  
Jack R. Granquist, Environmental Scientist

Reviewed by:

  
\_\_\_\_\_  
Rick Palm, Geologist



## Figures

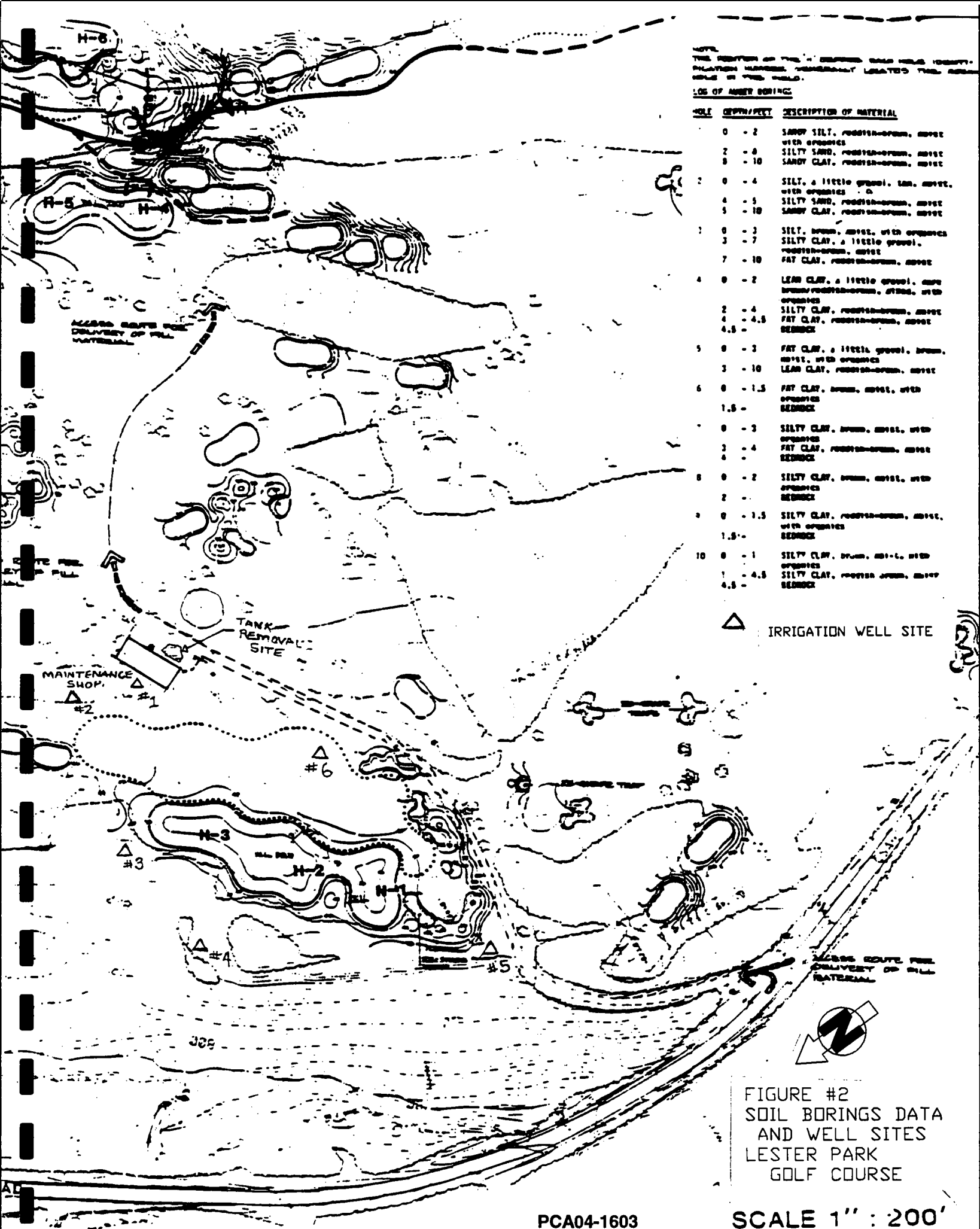




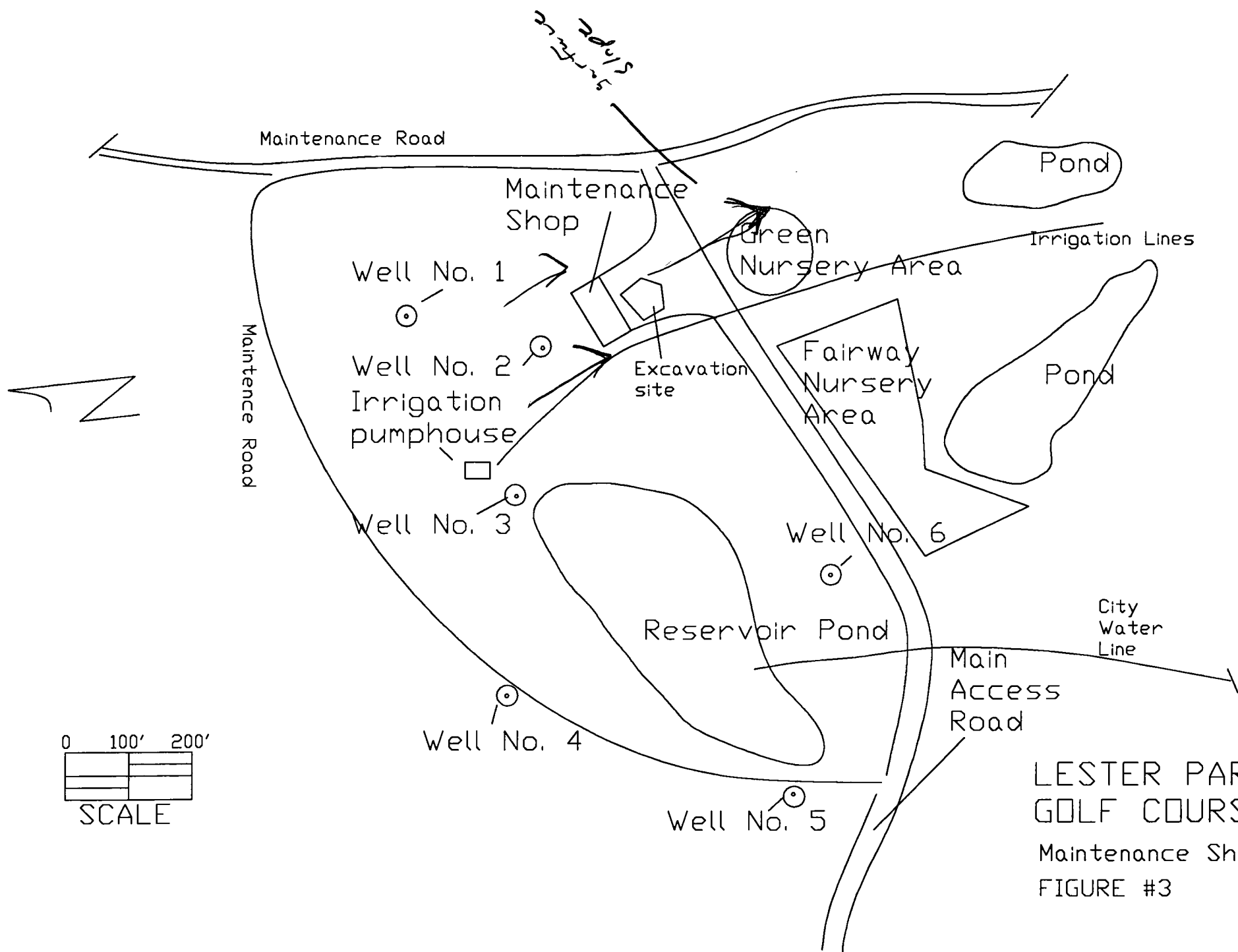
FIGURE 1  
LESTER PARK GOLF  
COURSE  
DULUTH, MN  
SITE LOCATION MAP





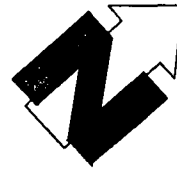






LESTER PARK  
GOLF COURSE  
Maintenance Shop  
FIGURE #3





LESTER PARK GOLF COURSE  
MAINTAINANCE SHOP

POWER POLE

TANK #1 VENT PIPE

FILL PIPE

OVER HEAD DOOR

ABOVE GROUND  
GASOLINE TANK  
(265 GALLONS)

GASOLINE PUMP

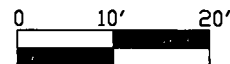
EXCAVATION  
LIMITS

TANK #2

TANK #1

UNDER GROUND  
TELEPHONE CABLE

GRAVEL ROAD

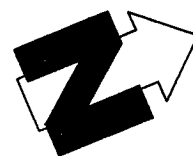


SCALE

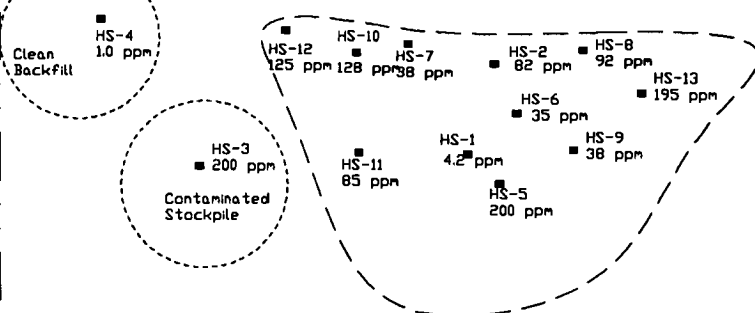
MAIN WATER LINES  
FOR IRRIGATION

FIGURE #4  
EXCAVATION OF  
TANKS #1 & #2  
LESTER PARK  
GOLF COURSE  
DULUTH, MN

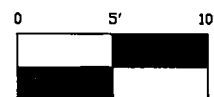




TANK #1 VENT PIPE  
FILL PIPE  
OVER HEAD DOOR  
ABOVE GROUND GASOLINE TANK (265 GALLON)  
GASOLINE PUMP



GRAVEL ROAD



SCALE

MAIN WATER LINES  
FOR IRRIGATION

FIGURE #5  
VAPOR HEADSPACE  
READINGS  
INITIAL EXCAVATION  
LESTER PARK  
GOLF COURSE



TANK #1 VENT PIPE  
 FILL PIPE OVER HEAD DOOR  
 ABOVE GROUND GASOLINE TANK (265 GALLON)  
 GASOLINE PUMP

HS-18  
 0.0 ppm

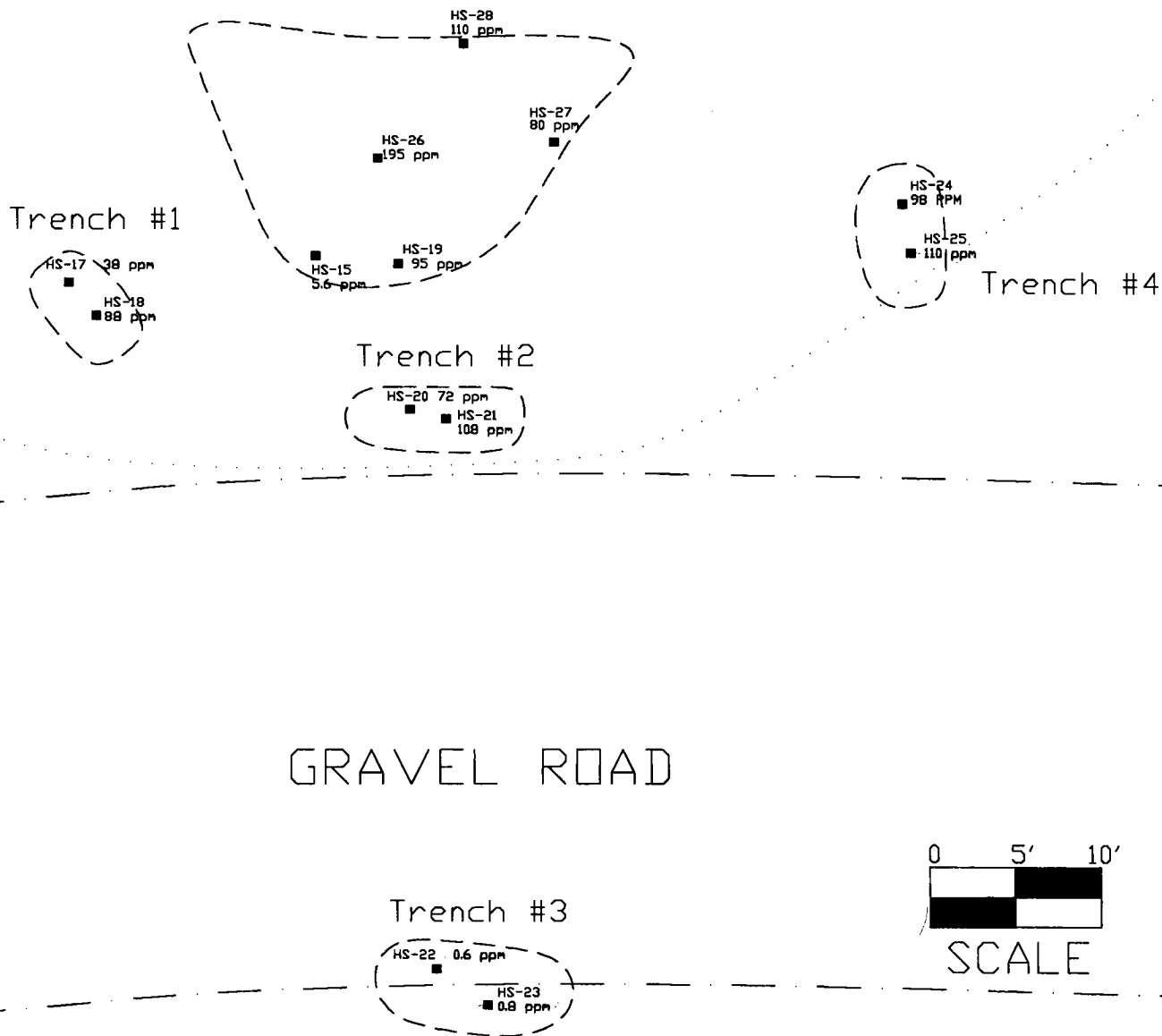
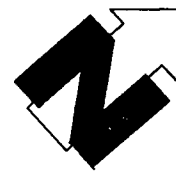
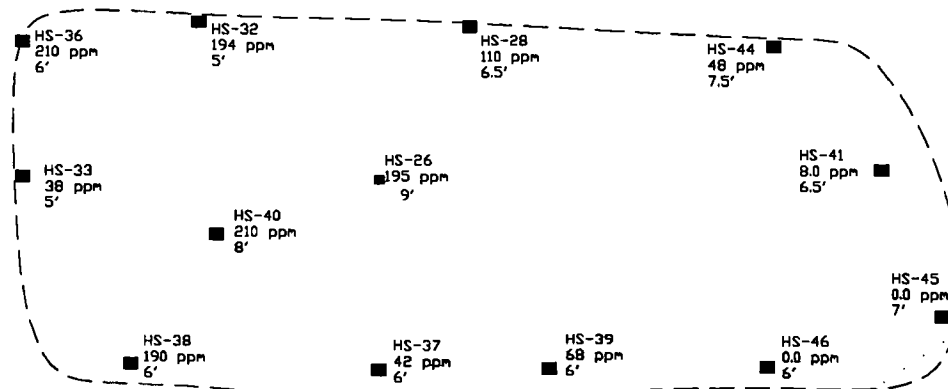


FIGURE #6  
 EXCAVATION SHOWING  
 EXPLORATION TRENCHES  
 LESTER PARK  
 GOLF COURSE

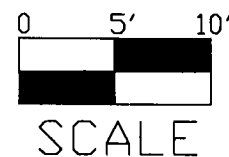




TANK #1 VENT PIPE  
FILL PIPE  
OVER HEAD DOOR  
ABOVE GROUND GASOLINE TANK (265 GALLON)  
GASOLINE PUMP



GRAVEL ROAD

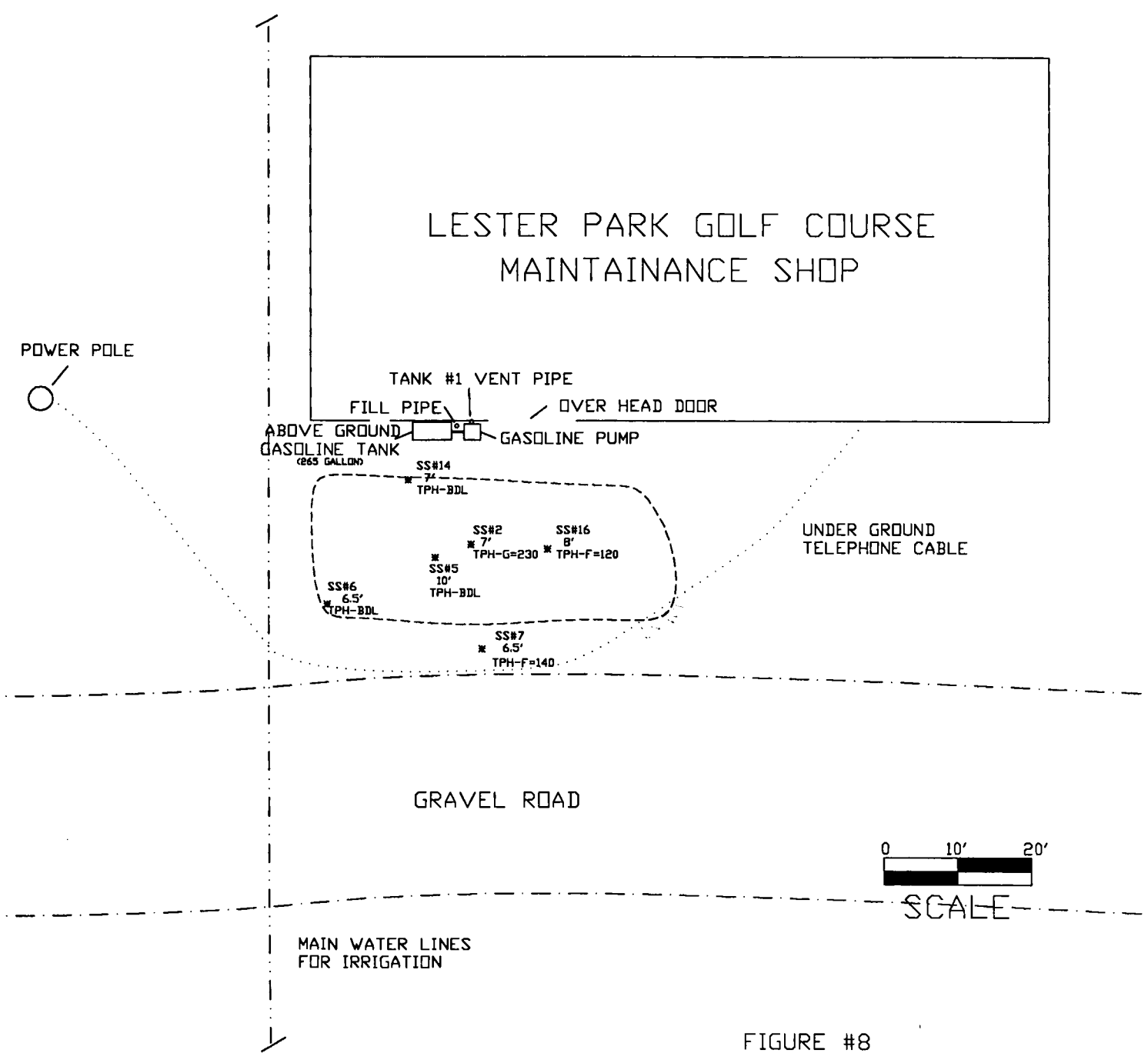


MAIN WATER LINES  
FOR IRRIGATION

FIGURE #7  
FINAL EXCAVATION &  
VAPOR READINGS  
LESTER PARK  
GOLF COURSE



17



\* Soil Sample Site  
 TPH-BDL ... Below Detectable Limits  
 TPH-F ... Total Petroleum Hydrocarbons as Fuel Oil  
 TPH-G ... Total Petroleum Hydrocarbons as Gasoline

FIGURE #8  
 SOILS ANALYSIS RESULTS  
 TOTAL HYDROCARBONS

LESTER PARK GOLF COURSE



## Tables



**TABLE 1**  
**SUMMARY OF HEADSPACE ANALYSIS**  
**City of Duluth**  
**Lester Park Golf Course**  
**TPT# 91-90E**

DATE	LOCATION	DEPTH	SOIL TYPE	ORGANIC VAPOR CONCENTRATION (ppm)	COMMENTS
4-24-90	HS-1	1'	Gravel Fill	4.2	Left side of fill pipe
	HS-2	3'	Gravel Fill	82	North end of Tanks under blacktop surface
	HS-3	2'	Sandy Gravel	200	Up stockpile West of Excav
	HS-4	2'	Street Sweeping	1.0	Clean Backfill brought by City
	HS-5	5'	Sandy Fill	200	Under Tank # 1
	HS-6	5'	Sandy Fill	35	Under Tank # 2
	HS-7	6'	Clay	38	North Wall North West Tank # 1
	HS-8	6'	Clay	92	North Wall North East Tank # 2
	HS-9	5'	Clay	38	East Wall
	HS-10	6'	Clay	128	North West Corner of Excavation
	HS-11	7'	Gravel	85	West of Tanks
	HS-12	8'	Gravel Beds	125	Up Trench West Wall
	HS-13	6'	Sandy Clay	195	Up Trench East Wall
	HS-14	Sample	No.	Not	Used
5-3-90	HS-15	2'	Reddish Brown Silty Sand	5.6	Below Water Level South Wall
	HS-16	5'	Same	38	Test Hole # 1
	HS-17	6 1/2'	Same	88	Bottom Test Hole # 1
	HS-18	6'	Clean Sand	0	Backfill Material From Anderson Pit.
	HS-19	6 1/2'	Silty Sand	95	South Wall of Excavation
	HS-20	5'	Silty Clay	72	Test Hole # 2
	HS-21	6 1/2'	Silty Sand	108	Bottom of Test Hole # 2
	HS-22	4 1/2'	Lean Red Clay	0.6	Test Hole # 3
	HS-23	6 1/2'	Lean Red Clay	0.8	Bottom of Test Hole # 3
	HS-24	5'	Reddish Brown Silty Sand	98	Test Hole # 4
5-3-90	HS-25	6 1/2'	Silty Sand	110	Bottom Test Hole # 4
	HS-26	9'	Clay	195	Bottom Center of Pit



DATE	LOCATION	DEPTH	SOIL TYPE	ORGANIC VAPOR CONCENTRATION (ppm)	COMMENTS
	HS-27	6'	Silty Sand	80	East Wall of Excavation
	HS-28	6 1/2'	Silty Sand	110	North Wall of Excavation
5-4-80	HS-29	6'	Gravel & Silt	0.4	Surface Material of Driveway
	HS-30	1 1/2'	Clay	5.2	Layer # 2
	HS-31	3'	Clay	130	East Wall of Excavation
	HS-32	5'	Reddish Brown Silty Sand	194	North Wall West of Center
	HS-33	5'	Same	38	West Wall Centered
	HS-34	Stockpile # 1	Gravel & Clay	5.4	Surface Material
	HS-35	Stockpile # 2	Gravel & Clay	98	Front Pile Surface Material Hauled Out
	HS-36	6'	Reddish Brown Silty Sand	210	West Wall North End
	HS-37	6'	Same	42	West Wall Center
	HS-38	6'	Same	190	South Wall West of Center
	HS-39	6'	Same	68	South Wall East of Center
	HS-40	8'	Silty Sand & Clay	210	Bottom West of Center
5-7-80	HS-41	6 1/2'	Reddish Brown Silty Sand	8.0	Middle East of Center
	HS-42	6 1/2'	Same	38	West End of East Excavation
	HS-43	5 1/2'	Same	178	West End of Excavation
	HS-44	7 1/2'	Red Clay	48	North Wall 7 1/2' East Excavation
	HS-45	7'	Reddish Brown Silty Sand	0	East Wall Lower
	HS-46	6'	Sandy Clay	0	East Wall Upper
	HS-47	6'	Reddish Brown Silty Sand	0	East Wall of Excavation.



**TABLE 2****Summary of Soil Sample Analysis**

**Lester Park Golf Course  
1860 Lester River Road  
Duluth, Minnesota 55804**

**TPT #91-90E**

<b>Sample #</b>	<b>SS #2</b>	<b>SS #6</b>	<b>SS #5</b>	<b>SS #7</b>	<b>SS #16</b>	<b>SS #14</b>
<b>Location</b>	<b>Below tank</b>	<b>Bottom test hole #1</b>	<b>Bottom center of excav.</b>	<b>Bottom test hole #2</b>	<b>Bottom E of center of excav.</b>	<b>North wall W of center of excav.</b>
<b>Depth</b>	7'	6 1/2'	10'	6 1/2'	8'	
<b>Benzene (ppm)</b>	3.3	<0.005	<0.005	<0.01 (C)	<0.01 (C)	<0.005
<b>Ethylbenzene (ppm)</b>	2.3	0.007	<0.005	0.52	0.29	<0.005
<b>Toluene (ppm)</b>	8.3	<0.005	<0.005	<0.01 (C)	<0.01 (C)	<0.005
<b>Xylene (ppm)</b>	20	0.016	0.011	0.42	0.97	0.006
<b>FID Scan Total Hydrocarbons as Fuel Oil (ppm)</b>	(A)	<2.0	<2.0	140	120	<2.0
<b>FID Scan Total Hydrocarbons as Gasoline (ppm)</b>	230	<0.50	<0.50	(B)	(B)	<0.50
<b>Lead, as Pb (ppm)</b>	38	12	17	14	23	13

(A) = Unable to quantify due to presence of gasoline

(B) = Unable to quantify due to presence of fuel oil

(C) = Increased detection limits due to high level of contamination



## Appendix A





# SERCO Laboratories

REC'D JUN 5 1990

1931 West County Road C2, St. Paul, Minnesota 55113 (612) 636-7173

LABORATORY ANALYSIS REPORT NO: 1131  
06/01/90

PAGE 1

Twin Ports Testing  
1301 North Third Street  
Superior, WI 54880

DATE COLLECTED: 05/03/90; 05/07/90  
DATE RECEIVED: 05/09/90  
COLLECTED BY : CLIENT  
DELIVERED BY : CLIENT  
SAMPLE TYPE : SOIL

Attn: Jack Granquist

SERCO SAMPLE NO: 34140 34150 34160 34170

SAMPLE DESCRIPTION: SS#2 SS#6 SS#5 SS#7  
91-90E  
Lester  
Golf

ANALYSIS:

Benzene, mg/kg	3.3	<0.005	<0.005	<0.01(C)
Ethylbenzene, mg/kg	2.3	0.007	<0.005	0.52
Toluene, mg/kg	8.3	<0.005	<0.005	<0.01(C)
Xylene, mg/kg	20	0.016	0.011	0.42
FID Scan, mg/kg, as #2 fuel oil	(A)	<2.0	<2.0	140
FID Scan, mg/kg, as gasoline	230	<0.50	<0.50	(B)
Lead, mg/kg as Pb	38	12	17	14

SERCO SAMPLE NO: 34180 34190

SAMPLE DESCRIPTION: SS#16 SS#14

ANALYSIS:

Benzene, mg/kg	<0.01(C)	<0.005
Ethylbenzene, mg/kg	0.29	<0.005
Toluene, mg/kg	<0.01(C)	<0.005
Xylene, mg/kg	0.97	0.006
FID Scan, mg/kg, as #2 fuel oil	120	<2.0
FID Scan, mg/kg, as gasoline	(B)	<0.50
Lead, mg/kg as Pb	23	13

(A) Unable to quantify due to the presence of gasoline.

(B) Unable to quantify due to the presence of fuel oil.

(C) Increased detection limits due to high level of contamination.

< means "not detected at this level". 1 mg = 1000 ug.



Member

PCA04-1615





# SERCO Laboratories

REC'D JUN 5 1990

1931 West County Road C2, St. Paul, Minnesota 55113 (612) 636-7173

LABORATORY ANALYSIS REPORT NO: 1131  
06/01/90

PAGE 2

All analyses were performed using EPA or other accepted methodologies. Samples that may be of an environmentally hazardous nature will be returned to you. Other samples will be stored for 30 days from the date of this report, then disposed of by SERCO LABORATORIES. Please contact me if other arrangements are needed.

Report submitted by,

Diane J. Anderson  
Project Manager

< means "not detected at this level". 1 mg = 1000 ug.



PCA04-1616

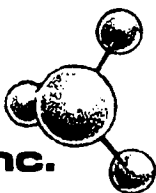


## CHAIN OF CUSTODY RECORD

REC'D JUN 27 1960



SINCE 1972



**TWIN PORTS TESTING inc.**

1301 NORTH THIRD STREET ■ SUPERIOR, WISCONSIN 54880  
FAX # 715-392-7163 ■ (715) 392-7114

## LABORATORY REPORT

**Firm** CITY OF DULUTH

**TPT Lab No.** 91-90E

**Material** UNKNOWN

**Taken By** TPT

**Date Received** 04/24/90

**Date Tested** 04/30/90

**Sample**  
**Designation** FLUID SAMPLE #1

### DATA

FLASH POINT (°F): 76

**PREPARED BY**

*Kari L. Mass*

**DATE**

*04/30/90*

AS MUTUAL PROTECTION TO CLIENTS, THE PUBLIC, AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS. AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL.

PCA04-1618



X



LAND APPLICATION APPROVAL--May 1990

< Mr. Robert Troolin >  
< City of Duluth >  
< 313 City Hall >  
< Duluth, MN 55802 >

Dear < Mr. Troolin >:

RE: Approval of Land Application of Petroleum Contaminated Soil  
Site: 2536  
Site ID#: LEAK0000

The application submitted by your consultant dated < 9-06 >, 1990, to land apply approximately < 396 > cubic yards of petroleum contaminated soil is hereby approved by staff of the Minnesota Pollution Control Agency (MPCA). This approval is based upon the MPCA staff's understanding that the appropriate county and local officials have been notified and/or have given approval for the land application of this soil and is subject to the following additional conditions:

1. Stockpiled soils shall be protected from infiltration and runoff prior to land application.
2. Soil shall be applied to land located at < St. Louis County, City of Duluth, NW 1/4 of SE 1/4 of Section 6, TWP 50N, Range 14 W >
3. Soils shall be spread to a thickness of no more than four inches and incorporated into the top six inches of native soil per MPCA document "Land Application of Petroleum Contaminated Soil: Single Application Sites" (April 25, 1990). Soils shall be disked once per month during the growing season.
4. The land-applied soil shall be sampled and reports shall be submitted in accordance with part III.C of the MPCA land application document until analyses indicate 10 parts per million total petroleum hydrocarbons or lower. The MPCA form entitled "Soil Monitoring Results for Land-Applied Petroleum Contaminated Soil" should be used for reporting.

We believe these actions will provide adequate treatment of petroleum contaminated soils. The MPCA reserves the right to require additional work if this is determined to be necessary to protect public health and the environment. This letter does not release any party from liability for this contamination.

219-723-4660

Please contact me at ~~312/653~~ < \_\_\_\_\_ >, if you have any further questions.

Sincerely,

< Timothy A. Musick > Regional  
~~Project Leader of Pollution Control~~ Specialist  
Tanks and Spills Section  
Hazardous Waste Division

cc: (county and local officials, consultant, land owner; include addresses)

< Chris Zadak, Project Leader, Tanks & Spills Section, Hazardous Waste Division, MPCA >

John Jubala, Zoning Admin., St. Louis County Health Dept.,  
1001 East First Street, Duluth, MN, 55802-2242

Rick Hoglund, Twin Ports Testing, INC.,  
1301 North Third Street, Superior, WI, 54880

PCA04-1664



Minnesota Pollution Control Agency  
Tanks and Spills Section  
April 25, 1990

Refer to the Minnesota Pollution Control Agency (MPCA) document "Land Application of Petroleum Contaminated Soil: Single Application Sites" for specific information on acceptable soil and site criteria.

### I. BACKGROUND INFORMATION

A. Tank owner/operator mailing address:  
contaminated

Contact: Mr. Bob Troolin  
Company name: City of Duluth  
Street/Box: 313 City Hall  
City, Zip: Duluth, Minnesota 55802  
Telephone: 218-723-3291

B. Site from which

soil originated: Lester Park  
Golf Course  
Company name: City of Duluth  
Street: 1860 Lester River Road  
City, Zip: Duluth, 55804  
County: St. Louis

C. Address or legal description  
of land spreading site:

Contact: Elita Anderson  
Street: County Rd #4 / Airport Rd.  
City, Zip: Duluth, Minnesota 55779  
Telephone: 218-124-9433

D. Consultant (or other)  
preparing this form:

Contact: Rick Hoglund / Jack  
Company name: Twin Ports Testing  
Street/Box:  
City, Zip: Superior  
Telephone: 715-392-7114

NW 1/4 of SE 1/4 of Section 6,  
Township 50N, Range 14W Township Name City of Duluth

E: MPCA Site ID#: LEAK0000 2536

F. Volume of soil to be land applied (cubic yards): (396 yds)<sup>3</sup>

G. Projected date of application of soil:

H. Have there been past waste disposal activities at the proposed site?

No \_\_\_ Yes X, please explain. It is a MPCA multiple use site  
for land application of petroleum  
contaminated soils.

### II. SITE AND SOIL CHARACTERISTICS

A. Site slope (percent): \*

B. Distance to surface water (feet or miles): \*

C. Distance to nearest building or residence (feet): \*

D. Depth to seasonal high water table (feet): \*

Depth to field tile lines (feet): \*

If bedrock exists at 8 feet or less, indicate depth (feet): \*

E. Area of land to be used (square feet or acres): \*

F. Spreading thickness (inches): \*

### III. SOIL SAMPLING RESULTS

A. If soil nutrient tests were conducted, list the results below:

Sample Number	Organic Matter, Percent	Extractable Phosphorus, ppm
*	_____	_____
*	_____	_____
*	_____	_____

PCA04-1665

\* For site specific characteristics please see MPCA records



April 25, 1990

If fertilizers will be applied, provide application rates:

\_\_\_\_\_ lbs. nitrogen/acre, \_\_\_\_\_ lbs. P205/acre, \_\_\_\_\_ lbs. sulfur/acre

- B. Circle the type(s) of petroleum contamination: unleaded gas, regular gas, diesel fuel, No. 2 fuel oil, waste oil, other (please specify \_\_\_\_\_)

List the appropriate soil sample analytical results from the excavated contaminated soil (refer to the MPCA document "Soil and Ground Water Analysis at Petroleum Release Sites"). If the petroleum was not gasoline or fuel oil attach a separate table.

Sample Number	THC as gas or FO ppm	Benzene ppm	Ethyl-benzene ppm	Toluene ppm	Xylene ppm	MTBE ppm	Lead ppm
<u>SS-2</u>	<u>230</u>	<u>3.3</u>	<u>2.3</u>	<u>8.3</u>	<u>20</u>		<u>38</u>
<u>SS-16</u>	<u>120</u>	<u>BDL</u>	<u>0.29</u>	<u>BDL</u>	<u>0.97</u>		<u>23</u>
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

NOTE: ATTACH COPIES OF LABORATORY RESULTS AND CHAIN OF CUSTODY FORMS

## IV. FIGURES

Include the following figures:

- Copy of county soil survey map (if the county has been mapped) with copies of the interpretation tables or interpretation sheets.
- Site location map with exact application location marked (scale should be approximately one inch = 50 feet)

\*\*\*\*\*

Signature and Title of MPCA Staff Inspector (or other authorized inspector):

Michael J. Jure Date Inspected : 11-06-90

Signature and Title of County Official: \_\_\_\_\_

Signature and Title of City/Township Official: \_\_\_\_\_

\*\*\*\*\*

Mail to:

Minnesota Pollution Control Agency  
Attention: (Project Manager)  
Hazardous Waste Division  
Tanks and Spills Section  
520 Lafayette Road  
St. Paul, Minnesota 55155

PCA04-1666



**TABLE 2****Summary of Soil Sample Analysis**

**Lester Park Golf Course  
1860 Lester River Road  
Duluth, Minnesota 55804**

**TPT #91-90E**

Sample #	SS #2	SS #6	SS #5	SS #7	SS #16	SS #14
Location	Below tank	Bottom test hole #1	Bottom center of excav.	Bottom test hole #2	Bottom E of center of excav.	North wall W of center of excav.
Depth	7'	6 1/2'	10'	6 1/2'	8'	
Benzene (ppm)	3.3	<0.005	<0.005	<0.01 (C)	<0.01 (C)	<0.005
Ethylbenzene (ppm)	2.3	0.007	<0.005	0.52	0.29	<0.005
Toluene (ppm)	8.3	<0.005	<0.005	<0.01 (C)	<0.01 (C)	<0.005
Xylene (ppm)	20	0.016	0.011	0.42	0.97	0.006
FID Scan Total Hydrocarbons as Fuel Oil (ppm)	(A)	<2.0	<2.0	140	120	<2.0
FID Scan Total Hydrocarbons as Gasoline (ppm)	230	<0.50	<0.50	(B)	(B)	<0.50
Lead, as Pb (ppm)	38	12	17	14	23	13

(A) = Unable to quantify due to presence of gasoline

(B) = Unable to quantify due to presence of fuel oil

(C) = Increased detection limits due to high level of contamination





# SERCO Laboratories

REC'D JUN 5 1990

931 West County Road C2 St Paul, Minnesota 55113 (612) 636-7173

LABORATORY ANALYSIS REPORT NO: 1131  
06/01/90

PAGE 1

Twin Ports Testing  
1301 North Third Street  
Superior, WI 54880

DATE COLLECTED: 05/03/90; 05/07/90  
DATE RECEIVED: 05/09/90  
COLLECTED BY: CLIENT  
DELIVERED BY: CLIENT  
SAMPLE TYPE: SOIL

Attn: Jack Granquist

SERCO SAMPLE NO:	34140	34150	34180	34170
SAMPLE DESCRIPTION:	SS#2 91-90E Lester Golf	SS#6	SS#5	SS#7
ANALYSIS:				
Benzene, mg/kg	3.3	<0.005	<0.005	<0.01(C)
Ethylbenzene, mg/kg	2.3	0.007	<0.005	0.52
Toluene, mg/kg	8.3	<0.005	<0.005	<0.01(C)
Xylene, mg/kg	20	0.016	0.011	0.42
FID Scan, mg/kg, as #2 fuel oil	(A)	<2.0	<2.0	140
FID Scan, mg/kg, as gasoline	230	<0.50	<0.50	(B)
Lead, mg/kg as Pb	38	12	17	14

SERCO SAMPLE NO:	34180	34190
SAMPLE DESCRIPTION:	SS#16	SS#14

ANALYSIS:		
Benzene, mg/kg	<0.01(C)	<0.005
Ethylbenzene, mg/kg	0.29	<0.005
Toluene, mg/kg	<0.01(C)	<0.005
Xylene, mg/kg	0.97	0.006
FID Scan, mg/kg, as #2 fuel oil	120	<2.0
FID Scan, mg/kg, as gasoline	(B)	<0.50
Lead, mg/kg as Pb	23	13

- (A) Unable to quantify due to the presence of gasoline.  
(B) Unable to quantify due to the presence of fuel oil.  
(C) Increased detection limits due to high level of contamination.



PCA04-1668





# SERCO Laboratories

REC'D JUN 5 1990

1931 West County Road C2, St. Paul, Minnesota 55113 (612) 636-7173

LABORATORY ANALYSIS REPORT NO: 1131  
06/01/90

PAGE 2

All analyses were performed using EPA or other accepted methodologies. Samples that may be of an environmentally hazardous nature will be returned to you. Other samples will be stored for 30 days from the date of this report, then disposed of by SERCO LABORATORIES. Please contact me if other arrangements are needed.

Report submitted by,

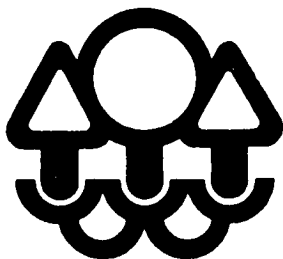
Diane J. Anderson  
Project Manager

PCA04-1669



1 mg = 1000 ug.





Minnesota Pollution Control Agency



LAND APPLICATION APPROVAL

November 14, 1990

Mr. Robert Troolin  
City of Duluth  
313 City Hall  
Duluth, Minnesota 55802

Dear Mr. Troolin:

RE: Approval of Land Application of Petroleum Contaminated Soil  
Site:  
Site ID#: LEAK00002536

The application submitted by your consultant dated September 6, 1990, to land apply approximately 396 cubic yards of petroleum contaminated soil is hereby approved by staff of the Minnesota Pollution Control Agency (MPCA). This approval is based upon the MPCA staff's understanding that the appropriate county and local officials have been notified and/or have given approval for the land application of this soil and is subject to the following additional conditions:

1. Stockpiled soils shall be protected from infiltration and runoff prior to land application.
2. Soil shall be applied to land located in St. Louis County, City of Duluth, NW $\frac{1}{4}$  of SE $\frac{1}{4}$  of Section 6, Twp. 50N, Range 14W.
3. Soils shall be spread to a thickness of no more than four inches and incorporated into the top six inches of native soil per MPCA document "Land Application of Petroleum Contaminated Soil: Single Application Site" (April 25, 1990). Soils shall be disked once per month during the growing season.
4. The land-applied soil shall be sampled and reports shall be submitted in accordance with part III.C of the attached MPCA land application document until analyses indicate 10 parts per million total petroleum hydrocarbons or lower. The attached MPCA form entitled "Soil Monitoring Results for Land-Applied Petroleum Contaminated Soil" should be used for reporting.

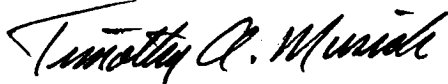


Mr. Robert Troolin  
Duluth, Minnesota  
Page Two

We believe these actions will provide adequate treatment of petroleum contaminated soils. The MPCA reserves the right to require additional work if this is determined to be necessary to protect public health and the environment. This letter does not release any party from liability for this contamination.

Please contact me at 218-723-4660, if you have any further questions.

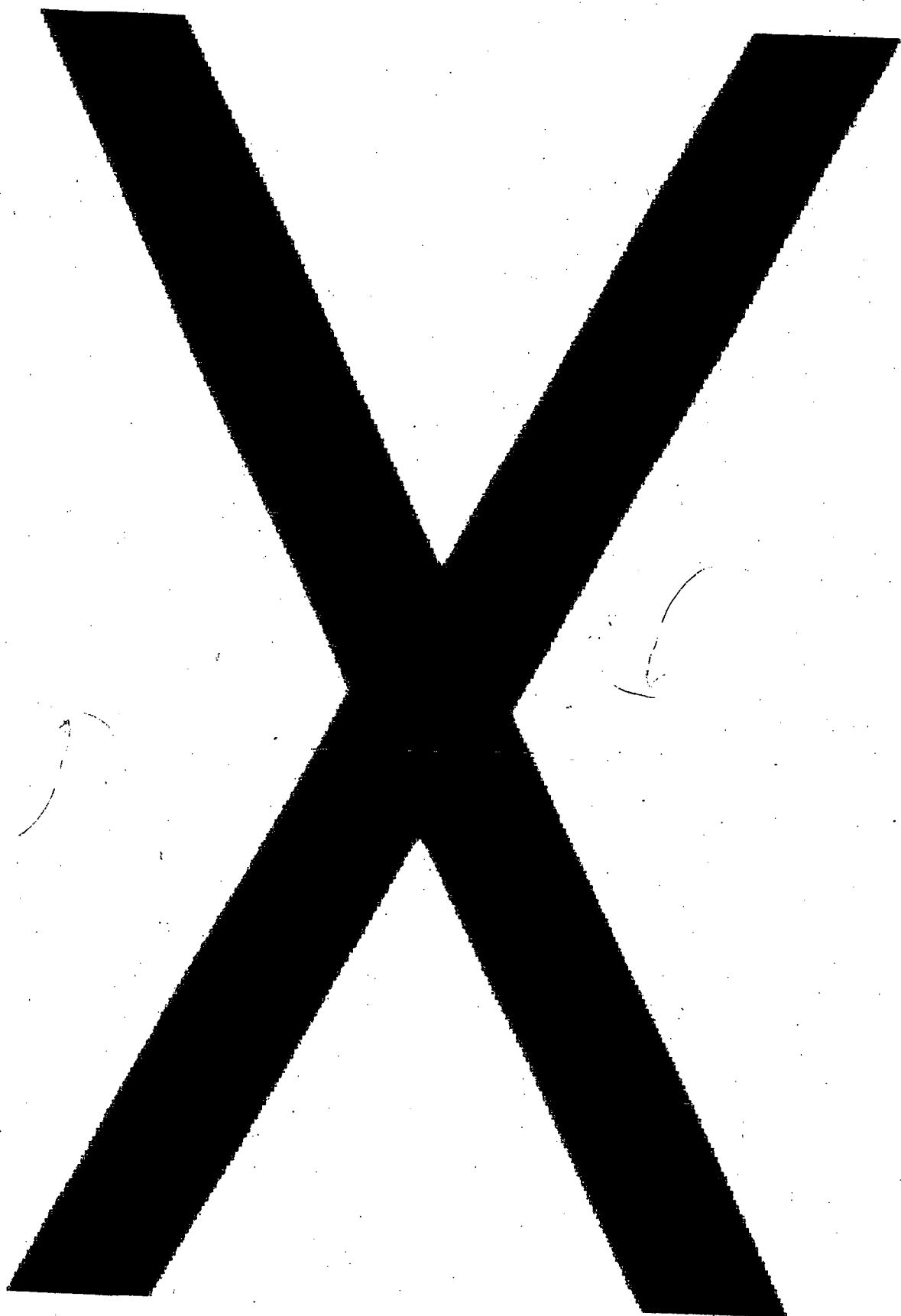
Sincerely,



Timothy A. Musick  
Regional Specialist  
Tanks and Spills Section  
Hazardous Waste Division

cc: Chris Zadak, Project Leader, Tanks & Spills Section, Hazardous Waste Division,  
MPCA, St. Paul  
John Jubala, Zoning Administrator, St. Louis County Health Department,  
1001 East First Street, Duluth, MN 55802-2242  
Rick Hoglund, Twin Ports Testing, Inc.,  
1301 North Third Street, Superior, Wisconsin 54880

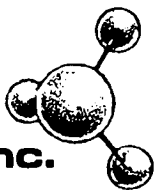






TWIN PORTS

SINCE 1972



**TESTING inc.**

1301 NORTH THIRD STREET ■ SUPERIOR, WISCONSIN 54880  
FAX # 715-392-7163 ■ (715) 392-7114

RECEIVED

SEP 20 1990

MPCA — DULUTH  
DULUTH, MN.

TPT# 300-90E  
September 7, 1990

MPCA, Northeast Regional Office  
Duluth Government Service Center Rm 704  
320 West Second Street  
Duluth, MN 55802

Attn: Michael V. Rose

Dear Mike:

This letter and data should provide you with the information you requested on September 6, 1990. Soil samples representative of land-spread soils are identified for each MPCA Site # in question. All representative samples are identified on the charts enclosed and also entered on the respective **Application to Land Apply Petroleum Contaminated Soil** forms.

Please feel free to contact us if further information is required regarding these reports.

Yours truly,

Jack Granquist  
Environmental Scientist

WG	
TM	
BB	
SL	
RM	
JC	
✓ MR	

PCA04-1672



TPT Job # 283-89E

Site from which soil originated: Joint Facility  
Address: 59th Ave W and Grand Ave  
Duluth, MN  
MPCA Site #: LEAK00001113  
Sample numbers representative of soils removed from the site:  
SS-24 SS-4 SS-10 SS-43 SS-36  
  
Total yards removed: 1428

TPT Job# 91-90E

Site from which soil originated: Lester Park Golf Course  
Address: 1860 Lester River Road  
Duluth, MN  
MPCA Site #: ~~LEAK00002536~~  
Sample numbers representative of soils removed from the site:  
Representative samples SS-2 and SS-16  
  
Total yards removed: 396

TPT Job# 84-90E

Site from which soil originated: Sewer Maintenance Toolhouse  
Address: 115 N 24th Ave W  
Duluth, MN  
MPCA Site #: LEAK00002943  
Sample numbers representative of soils removed from the site:  
Representative Sample: S4  
  
Total yards removed: 250

TPT Job # 71-90E

Site from which soil originated: Far West Toolhouse  
Address: 2407 Commonwealth Ave.  
Duluth, MN  
MPCA Site #: LEAK00003084  
Sample numbers representative of soils removed from the site:  
SS-1 SS-2 SS-4 SS-6 SS-8  
  
Total yards removed: 180



**TPT Job # 86-90E**

Site from which soil originated: Central Entrance Toolhouse

Address: 103 E Central Entrance

Duluth, MN

MPCA Site #: LEAK00003084

Sample numbers representative of soils removed from the site:

SS-3      SS-4      SS-10

Total yards removed: 952

**TPT Job# 118-90E**

Site from which soil originated: City Hall/Police Garage

Address: 411 West First Street

Duluth, MN

MPCA Site #: LEAK00003084

Sample numbers representative of soils removed from the site:

Total of 12 cu. yds of material were removed, but were not tested. Soils removed consisted of concrete and fill material from top of excavation. No contaminated soils were removed from this site. Contamination was encountered below water table.

**TPT Job # 76-90E**

Site from which soil originated: Park and Recreation Toolhouse

Address: 110 N 42nd Ave W

Duluth, MN

MPCA Site #: LEAK00002943

Sample numbers representative of soils removed from the site:

Form was completed and turned in to MPCA on 7/27/90.

SS-4   SS-5   SS-21   SS-23

Total yards removed: 152

**TPT Job # 79-90E**



Site from which soil originated: Fire Station 5 - City of Duluth

Address:

Duluth, MN

MPCA Site #: LEAK00002797

Sample numbers representative of soils removed from the site:

No contaminated soils were detected at this site.

Total yards removed: None

TPT Job # 82-90E

Site from which soil originated: Woodland Library

Address:

Duluth, MN

MPCA Site #: LEAK00002923

Sample numbers representative of soils removed from the site:

SS-5

Total yards removed: 2



X



DEPARTMENT : POLLUTION CONTROL AGENCY

STATE OF MINNESOTA

## Office Memorandum

DATE : June 29, 1998  
TO : Jim Joslyn  
FROM : Jonathan Smith  
PHONE : (218) 723-4958  
SUBJECT : LEAK #2536  
Lester Park Golf Course

I reviewed the RI report prepared by RSI dated January 28, 1998. RSI is recommending closure for the site. I concur with their recommendations. Since 1995 only one well, MW-2 has been "hot" and overall has exhibited a nice decreasing trend (despite the inconclusive biodeg data). The downgradient sample points have also been clean. There are no receptors within 500 feet and the area is serviced by municipal water.

RECOMMENDATIONS:  
CLOSE!

PCA04-1676



RECEIVED

FEB 02 1998

January 28, 1998

RECEIVED  
MPCA, HAZAR. COS  
WASTE DIVISION

RECEIVED

FEB 02 1998

MPCA, HAZAR. COS  
WASTE DIVISION

Mr. Jim Joslyn  
Minnesota Pollution Control Agency  
Tanks and Spills Response Division  
520 Lafayette Road North  
St. Paul, MN 55155-4194

**RE: RI Report  
City of Duluth  
Lester Park Golf Course  
Leak #2536**

Dear Mr. Joslyn:

The City of Duluth Lester Park Golf Course site has been adequately delineated with respect to soil and ground water impacts. The source of the impact has been removed, and remaining petroleum hydrocarbons in the soil and ground water should continue to biodegrade. Due to the limited extent of the impact and the lack of receptors, human health does not appear to be at risk.

RSI recommends file closure with no additional work required at this site. Please contact us if you have and questions concerning the report.

Sincerely,

REMEDIATION SERVICES, INC.



GUY M. PARTCH  
Hydrogeologist

enclosures

PCA04-1678



**RESIDUAL SOIL CONTAMINATION**

396 yds<sup>3</sup> removed  
Type and volume contaminated soil remaining

High concentration remaining .83 Benzene in SB-3 @ 14-16'

Depth of contamination P10 readings > 10 ppm were not encountered below 8'

**VAPOR ISSUES**

Vapor survey

**HYDROGEOLOGY**

Water table depth / shallow flow direction *yes*

Horizontal gradient / conductivity / plume velocity → 31 m/yr

*.03*

*10<sup>-5</sup> - 10<sup>-3</sup> cm/sec*

Stratigraphy / hydrogeologic units

Resource aquifer(s)? *✓*

Vertical gradient?

**GROUND WATER CONTAMINATION**

Contaminants of concern / concentrations / locations

*Since 1995, MW-2 has been only "hot" well*

Extent

Contaminant and biodegradation trends

*MW-2 shows good ↓ trend - Biodeg parameters inconclusive*

**RECEPTORS**

*municipal water is available*

Wells *no wells within 500 feet of site*

Surface water / standards

*Leater River is within 1/4 mile of site*

**RECOMMENDATIONS / REQUESTS / COMMENTS:**

*Close*



X



## Application for Reimbursement

Leak # 2536

C. 3

☒

b) Date SCAP was submitted to MPCA 9/6/90

State of Minnesota  
Dept. of Commerce

OCT 14 1991

[1]

Date of Soil Treatment Letter      /      /      (Attach copy)

[ ]

b) Date CCAP was submitted to MPCA      /      /     

[ ]

Date of CCAP Installation Letter      /      /      (Attach copy)

[ 1 ]

**Closure Letter from MPCA (Attach Copy)**

Name: CITY OF DULUTH

2. Mailing Address: 313 CITY HALL

DULUTH, MN

Phone: ( ) 218-723-3373

3. Site ID: Leak # 00002536

4. The applicant is a: ☐ Corporation ☐ Partnership ☐ Individual ☒ Other CITY

5. Applicant was the owner or operator of the tank from 6/1/75 to 4/24/90.

6. Has applicant executed any Petrofund assignment agreements? yes\_\_\_ no ☒

**Name of assignee** \_\_\_\_\_ (attach copy of agreement)



**PART III TANK FACILITY**

1. Name of "Tank Facility" (see application guide) where the petroleum release occurred:

LESTER PARK GOLF COURSE - MAINT SHOP

2. Tank Facility address: 1860 LESTER RIVER ROAD  
DULUTH, MN 55804

3. Contact Person at Tank Facility: BOB TROGLIN  
Phone: ( 218-723-3323 )

4. Date when petroleum release was detected: 4/24/90

What test was performed to initially establish that a release occurred?                     

5. Date when petroleum release was reported to the MPCA: 4/24/90 PHONE CALL  
LETTER SENT 5/2/90 TO DULUTH PCB OFFICE

6. Please complete the following information on the tanks at this Tank Facility. (see application guide)

<u>Tank #</u>	<u>Capacity</u>	<u>Petroleum Product</u>	<u>"X" if tank removed</u>	<u>Date of Removal</u>
<u>1</u>	<u>350</u>	<u>GAS</u>	<u>X</u>	<u>4/24/90</u>
<u>2</u>	<u>265</u>	<u>FOUND AT THE TIME OF EXCAVATION OF THE ABOVE TANK</u>	<u>X</u>	<u>4/24/90</u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>1 1</u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>1 1</u>

7. a. Which tanks were the source of the release at this tank facility? (see application guide)

BOTH TANKS

- b. What was the cause of the release?

CORROSION

8. What date was the MPCA notified of the existence of the tanks as required by Minnesota Statute 116.48? 10/8/86



9. To the best of \_\_\_\_\_ knowledge, list all other persons besides the applicant who were owners or operators of the \_\_\_\_\_ during or after the petroleum release:

N/A

10. Did any of the persons listed in question 9 incur corrective action costs related to this petroleum release? yes \_\_\_\_\_ no \_\_\_\_\_ If yes, list name and address if known:

N/A

#### **PART IV** **ELIGIBLE COSTS**

1. The Eligible Cost Worksheets attached are for INVESTIGATION costs, CLEAN-UP costs, and CONSULTANT costs. These worksheets must be completed listing each corrective action for which you are requesting reimbursement.
2. Invoices submitted with this application cover the period from 4/24/90 to 10/9/91
3. Are any of the costs listed in the Eligible Cost Worksheets in dispute? yes \_\_\_\_\_ no X  
(see application guide)
4. a. Please state the total amount of contaminated soil which was excavated at this site (cubic yards or tons): 396 CUBIC YARDS
- b. What was the soil contamination concentration (total hydrocarbons) \_\_\_\_\_ ppm?  
SOIL SAMPLE ANALYSIS PROVIDED 120PPM TO 230 P.P.M.
5. Has the applicant been eligible to recover cleanup costs arising from this petroleum release under any insurance policy at any time since June 4, 1987? yes \_\_\_\_\_ no X

If yes, provide the following:

<u>Insurance Company</u>	<u>Policy #</u>	<u>Policy Limits</u>	<u>Deductible</u>	<u>Period Covered</u>
--------------------------	-----------------	----------------------	-------------------	-----------------------

SELF INSURED

6. Total of all eligible costs as listed in the Eligible Cost Worksheets:

\$10,013.13  
X 90%

= \$ 9011.82

Insurance Reimbursement (Subtract) - \$ ( — )

Total Reimbursement Request (See application guide) = \$ 9011.82



7. At this time, do you anticipate incurring any Ongoing corrective action costs relative to the petroleum release his Tank Facility? yes X no

If yes, explain briefly what work will be done and an approximate cost of that work.

THE TEST FIRM HAS RECOMMENDED FURTHER  
INVESTIGATION TO DEFINE THE EXTENT OF SOIL &  
GROUNDWATER CONTAMINATION

**PART V**

**CONTRACTORS/CONSULTANTS**

1. Complete the following for all contractors, subcontractors, consultants, engineering firms or others who performed corrective actions at this release site. (see application guide) Failure to provide this information for **ALL** persons who performed corrective action may result in an action to recover any reimbursement which may be paid. (Attach additional sheets if necessary.)

Name of individual or firm: TWIN PORTS TESTING INC.

Mailing address: 1301 N. THIRD STREET, SUPERIOR, WI 54880

Contact person: JACHT GRANQUIST Phone: (      ) 715-392-7163

Name of individual or firm: MIDWAY SEWER SERVICE

Mailing address: 4720 GRAND AVE, DULUTH, MN 55807

Contact person: DAYE Phone: (      ) 218-628-0345

Name of individual or firm: C.A. ANDERSON SAND & GRAVEL

Mailing address: 4577 OLD HIGHWAY 53, SACINAW, MN 55779

Contact person: CLIFF ANDERSON Phone: (      ) 218-729-9433

2. Describe below any relationship, financial or otherwise, between the applicant and any contractor who performed work at this site:

ALL WORK WAS BID, COMPLETED  
AND CONTRACTORS PAID



**PART VI CERTIFICATION** (see application guide)

A. "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

"I certify that if I have submitted invoices for costs that I have incurred but that remain unpaid, I will pay these invoices within 30 days or receipt of reimbursement from the board. I understand that if I fail to do so, the board may demand return of all or any portion of reimbursement paid to me and that if I fail to comply with the board's demand, that the board may recover the reimbursement, plus administrative and legal expenses in a civil action in district court. I understand that I may also be subject to a civil penalty."

*Robert J. Hartl*  
Signature of Applicant

Robert J. Hartl  
Name (Please Print)

10/9/91  
Date

Witnessed by: *Bob Tronhi*  
Name

10/9/91  
Date

**Every** applicant must sign Part A. above. If applicant is a corporation or partnership, the following certification must **also** be made:

"I further certify that I am authorized to sign and submit this application on behalf of

*Robert J. Hartl*  
Signature

Robert J. Hartl  
Name (Please Print)

*Min. Personnel Services*  
Title (See Application Guide, Part VI)

10/9/91  
Date

Please send this application and accompanying documents to:

**Petroleum Tank Release Compensation Board  
Minnesota Department of Commerce  
133 East Seventh Street  
St. Paul, Minnesota 55101  
(612) 297-4017**



**PART IV ELIGIBLE COST WORKSHEET - INVESTIGATION AND CLEAN-UP**

- \* Descriptions must be specific as to work performed.
- \* Invoices must be submitted for each cost listed below.
- \* Invoices must contain sufficient detail to verify costs and services entered below.
- \* Duplicate this form if additional worksheets are needed.

**A. SOIL BORINGS/MONITORING WELLS - ETC.**

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub- total
TOTAL					

**B. LABORATORY TESTS AND ANALYSIS**

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub- total
FIELD WORK	TWIN PORTS TESTING	4/30/90			968.63
" "	" "	5/31/90			3093.50
LAB WORK +	" "	6/19/90			661.75
REPORT	" "	7/27/90			1457.25
TOTAL					6181.13



**PART IV ELIGIBLE COST WORKSHEET - INVESTIGATION AND CLEAN-UP**

- \* Descriptions must be specific as to work performed.
- \* Invoices must be submitted for each cost listed below.
- \* Invoices must contain sufficient detail to verify costs and services entered below.
- \* Duplicate this form if additional worksheets are needed.

**C. EXCAVATION**

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub- total
EXCAVATION +	CA. ANDERSON	5/90			3232.00
SOIL DISPOSAL					
TOTAL					3232.00

**D. SOIL DISPOSAL**

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub- total
TOTAL					



## PART IV

### ELIGIBLE COS'

## WORKSHEET - INVESTIGATION

## ND CLEAN-UP

- \* **Descriptions must be specific as to work performed.**
- \* **Invoices must be submitted for each cost listed below.**
- \* **Invoices must contain sufficient detail to verify costs and services entered below.**
- \* **Duplicate this form if additional worksheets are needed.**

## E. WATER TREATMENT

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub- total
PUMPING & WATER	MIDWAY SEWER	4/24/90			400.00
DISPOSAL	" "	5/3/90			200.00
<b>TOTAL</b>					<b>600.00</b>



**PART IV ELIGIBLE COST WORKSHEET - INVESTIGATION AND CLEAN-UP**

- \* Descriptions must be specific as to work performed.
- \* Invoices must be submitted for each cost listed below.
- \* Invoices must contain sufficient detail to verify costs and services entered below.
- \* Duplicate this form if additional worksheets are needed.

**F. TRUCKING**

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub- total
TOTAL					

**G. EMERGENCY and TEMPORARY HAZARD CONTROL  
(see application guide)**

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub- total
TOTAL					



**PART IV ELIGIBLE COST WORKSHEET - INVESTIGATION AND CLEAN-UP**

- \* Descriptions must be specific as to work performed.
- \* Invoices must be submitted for each cost listed below.
- \* Invoices must contain sufficient detail to verify costs and services entered below.
- \* Duplicate this form if additional worksheets are needed.

**H. SITE RESTORATION and CLOSURE**

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub- total
TOTAL					

**I. OTHER CLEAN-UP or INVESTIGATION COSTS**

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub- total
TOTAL					



## PART IV

**ELIGIBLE COMPANY**

## WORKSHEET - CONSULTANT

## SERVICES

- \* **Description must be specific as to work performed.**
- \* **Invoices must be submitted for each cost listed below.**
- \* **Invoices must contain sufficient detail to verify costs and services entered below.**
- \* **Duplicate this form if additional sheets are needed.**

**J. REPORT PREPARATION; DATA COLLECTION; OPERATION OVERSIGHT AND MAINTENANCE; SYSTEM MONITORING; CORRESPONDENCE; MILEAGE; POSTAGE; PER DIEM**

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub- total
TOTAL					



**PART IV ELIGIBLE COST WORKSHEET - INVESTIGATION AND CLEAN-UP**

- \* Descriptions must be specific as to work performed.
- \* Invoices must be submitted for each cost listed below.
- \* Invoices must contain sufficient detail to verify costs and services entered below.
- \* Duplicate this form if additional worksheets are needed.

**K. MARK-UP**

Description	Firm Name	General Contractor Invoice #	Sub-Contractor Invoice #	Mark Up %	Sub-Total
TOTAL					

**L. OTHER CONSULTANT SERVICES (specify)**

Description	Firm Name	Invoice # or date	Total Units	Unit Costs	Sub-total
TOTAL					





# CITY OF DULUTH

DEPARTMENT OF ADMINISTRATION

Administrative Services Division

313 City Hall • Duluth, Minnesota 55802-1195

218/723-3291

October 10, 1991

Robin Hanson  
Petroleum Tank Release Compensation Board  
Minnesota Department of Commerce  
133 East Seventh Street  
St. Paul, Minnesota 55102

Dear Robin:

Enclosed are the applications for reimbursement for the below five sites. The City of Duluth has completed phase one. I have also sent Petroleum Contaminated Soil Corrective Action Worksheets to the Pollution Control Agency. I sent the worksheets to Chris Zadak.

The five sites include:

<u>Leak #</u>	<u>Site Name</u>	<u>Dollar Amount</u>
2400	Far West	\$ 9,742.84
<del>2536</del>	<del>Central Park</del>	<del>\$ 9,011.82</del>
2943	42nd Tool House	\$ 8,651.59
2619	Central Entrance	\$15,337.23
1005	2416 W. 9th Street	\$ 2,184.30

Thank you for your assistance.

Sincerely,

BOB TROOLIN, CSP  
Loss Control Manager

BT:blj:c

Encl.



X



**PETROLEUM TANK RELEASE COMPLIANCE CHECKLIST**

Site: Lester Park LEAK0000 2536

**I. RELEASE NOTIFICATION**

- Date release discovered: 4-24-90
- Date release reported: 4-24-90 (according to T. March)

Specifics (optional): \_\_\_\_\_

**II. TANK COMPLIANCE**

USTs (Indicate "yes", "no", or "N/A"):

- Do federal or state UST requirements apply? yes (If "no", skip to III)
- Tank(s) registered? yes Date registered: 10-8-86
- Leak detection: Tanks No Piping \_\_\_\_\_
- Corrosion protection: Tanks \_\_\_\_\_ Piping \_\_\_\_\_
- Spill protection? \_\_\_\_\_
- Overfill prevention? \_\_\_\_\_
- Certified removal/installation contractor? \_\_\_\_\_ (both applicable after 7/9/90)
- Prior removal notice given? oh (applicable after 6/1/89)

ASTs (Indicate "yes", "no", or "N/A"):

- Tank(s) registered? \_\_\_\_\_ Date registered: \_\_\_\_\_ (applicable after 1/1/91)
- Secondary containment? \_\_\_\_\_

Specifics (optional): \_\_\_\_\_

**III. DUE CARE**

- Was RP an operator? \_\_\_\_\_ (If "no" skip this section)
- Inventory control maintained? \_\_\_\_\_

If "due care" issues, specify: \_\_\_\_\_

**IV. COOPERATION WITH MPCA**

If "cooperation" issues, specify: \_\_\_\_\_

**V. COST RECOVERY**

Was state or federal money spent? \_\_\_\_\_ Were these costs recovered? \_\_\_\_\_

(7/91)



X





# Minnesota Pollution Control Agency

---

July 8, 1998

Mr. Chuck Faegre  
City of Duluth  
313 City Hall  
Duluth, Minnesota 55802

RE: Petroleum Tank Release Site File Closure  
Site: Lester Park Golf Course, 1860 Lester River Road, Duluth  
Site ID#: LEAK00002536

Dear Mr. Faegre:

We are pleased to let you know that the Minnesota Pollution Control Agency (MPCA) Tanks and Emergency Response Section (TERS) staff has determined that your investigation and/or cleanup has adequately addressed the petroleum tank release at the site listed above. Based on the information provided, the TERS staff has closed the release site file.

Closure of the file means that the TERS staff does not require any additional investigation and/or cleanup work at this time or in the foreseeable future. Please be aware that file closure does not necessarily mean that all petroleum contamination has been removed from this site. However, the TERS staff has concluded that any remaining contamination, if present, does not appear to pose a threat to public health or the environment.

The MPCA reserves the right to reopen this file and to require additional investigation and/or cleanup work if new information or changing regulatory requirements make additional work necessary. If you or other parties discover additional contamination (either petroleum or nonpetroleum) that was not previously reported to the MPCA, Minnesota law requires that the MPCA be immediately notified.

You should understand that this letter does not release any party from liability for the petroleum contamination under Minn. Stat. ch. 115C (Supp. 1997) or any other applicable state or federal law. In addition, this letter does not release any party from liability for nonpetroleum contamination, if present, under Minn. Stat. ch. 115B (1996), the Minnesota Superfund Law.

The monitoring wells for this site should be abandoned in accordance with the Minnesota Department of Health Well Code, Chapter 4725. If you choose to keep the monitoring wells, the Minnesota Department of Health will continue to assess a maintenance fee for each well.



Mr. Chuck Faegre

Page 2

July 8, 1998

Because you performed the requested work, the state may reimburse you for a major portion of your costs. The Petroleum Tank Release Cleanup Act establishes a fund which may provide partial reimbursement for petroleum tank release cleanup costs. This fund is administered by the Department of Commerce Petro Board. Specific eligibility rules are available from the Petro Board at 612/297-1119 or 612/297-4203.

If future development of this property or the surrounding area is planned, it should be assumed that petroleum contamination may still be present. If petroleum contamination is encountered during future development work, the MPCA staff should be notified immediately.

For specific information regarding petroleum contamination that may remain at this leak site, please call the TERS File Request Program at 612/297-8499. The MPCA fact sheet #335 *Leak/Spill and Underground Storage Tank File Request Form* (April 1997) must be completed prior to arranging a time for file review.

Thank you for your response to this petroleum tank release and for your cooperation with the MPCA to protect public health and the environment. If you have any questions regarding this letter, please call me at 612/297-8607.

Sincerely,



For James Joslyn  
Project Manager  
Cleanup Unit II  
Tanks and Emergency Response Section

JAJ lh

cc. Jeffrey Cox, City Clerk, Duluth  
Duane Flynn, Fire Chief, Duluth  
Ted Troolin, St. Louis County Solid Waste Officer  
Guy Partch, Remediation Service Inc., Duluth  
Minnesota Department of Commerce, Petrofund Staff





CITY OF DULUTH

DEPARTMENT OF ADMINISTRATION  
Administrative Services Division  
313 City Hall • Duluth, Minnesota 55802-1195  
218/723-3291

updates 358

RECEIVED

MAY 07 1990

MPCA, HAZARDOUS  
WASTE DIVISION

May 2, 1990

Minnesota Pollution Control Agency  
Hazardous Waste Division  
Tanks and Spills Section  
Sixth Floor  
520 Lafayette Road North  
St Paul, Minnesota 55155

Attn: Chris Zadak

Re Underground storage tank removal

Dear Chris:

On April 24, 1990, the City of Duluth removed two underground storage tanks from the Lester Park Golf Course at 1860 Lester River Road. As you will note on the Underground Storage Tank Notification form, we registered one tank. We attempted to remove the first tank and found an abandoned second tank underneath the first tank. We also found considerable contaminants. This site will also require additional excavation.

Enclosed is a copy of the Underground Storage Tank Notification form concerning this location. Thank you

Sincerely,

BOB TROOLIN, CSP  
Loss Control Manager

BT:blj:c

Encl

Copy to: Dave Mattson, Fire Marshal







# ABOVEGROUND TANK FACILITY NOTIFICATION FORM

CHECK ONE

☒ FIRST TIME FACILITY REGISTRATION

☐ UPDATED INFORMATION (Check action from table to the right)

☐ Add tank  
☐ Remove tank  
☐ Change tank info  
☐ Change owner  
☐ Change add, phone  
☐ Other

## FACILITY INFORMATION

TANK LOCATION (SITE ADDRESS)

TANK OWNER/OPERATOR (MAILING AD-)

NAME: LESTER PARK GOLF COURSE	NAME: CITY OF DULUTH
STREET: 1860 LESTER RIVER RD.	STREET: 330 CITY HALL
CITY DULUTH MN ZIP 55804	CITY DULUTH MN
COUNTY ST. LOUIS	STATE MN ZIP 55802
PHONE (218) 525-3018	PHONE (218) 723-3337
CONTACT PERSON GLEN OLIVER	CONTACT PERSON:

PLEASE CHECK THE TERM THAT BEST DESCRIBES YOUR FACILITY OPERATION

☐ SERVICE STATION/BULK FACILITY (34)  
☐ CHEMICAL STORAGE (35)  
☐ INDUSTRY/MANUFACTURING (19)  
☐ AUTO CARE/AUTOPARTS (44)  
☐ VEHICLE/TRAILER DEALER/CARRENTAL (2)  
☐ TRANSPORTATION (37)  
☐ RAILROAD (47)  
☐ UTILITY (39)  
☐ CONSTRUCTION (9)  
☐ RESIDENTIAL (8)  
☐ FAMILY FARM (3)  
☐ GOVERNMENT/CITY (12)  
☐ GOVERNMENT/COUNTY (13)  
☐ GOVERNMENT/STATE (15)  
☐ GOVERNMENT/FEDERAL (14)  
☐ GOVERNMENT/INDIAN (16)  
☐ OFFICE/MALL/PARKING LOT (40)

RECEIVED

OCT 17 1994

MPCA, HAZARDOUS  
WASTE DIVISION

☐ FOOD PROCESSING (49)  
☐ AGRICULTURAL (1)  
☐ SCHOOL/UNIVERSITY/VOTECH (10)  
☐ ENTERTAINMENT/RADIO/TV/NEWSPAPER (11)  
☐ HOSPITAL/MEDICAL CENTER/  
☐ NURSING HOME/CHILDREN (17)  
☐ LANDFILL/RUBBISH (20)  
☐ WASTEWATER/WATER TREATMENT (21)  
☐ HOTEL/MOTEL/RESTAURANT (18)  
☐ MARINA/RESORT/CAMPGROUND/BAIT (23)  
☐ WASTE OIL STORAGE/RECYCLING (33)  
☐ RETAIL STORE (31)  
☐ BANK/FINANCE/BROKER/INSURANCE (4)  
☐ CHURCH/CEMETARY/SOCIAL SERVICES (43)  
☐ PIPELINE TERMINAL (48)  
☐ REFINERY (50)  
☒ OTHER (describe) GOLF COURSE

LOADING RACK (FOR TRANSFERS)? Y ☐ N ☒ PAVED? Y ☐ N ☒ CURBED? Y ☐ N ☒

SPILL RESPONSE PLAN ON SITE? Y ☐ N ☒

IF MORE THAN 10 TANKS ARE AT THIS SITE, PHOTOCOPY THE BACK SIDE OF THIS FORM PRIOR TO COMPLETION AND INCLUDE AS ADDITIONAL TANK INFORMATION

IF THERE ARE ANY CHANGES TO THE REPORTED INFORMATION, THE MPCA MUST BE NOTIFIED OF THE CHANGE IN STATUS WITHIN 30 DAYS OF THE CHANGE. YOU MAY USE THIS FORM BY INDICATING IN THE UPPER LEFT CORNER THAT IT IS UPDATED INFORMATION

MPCA Use

Site ID #: 5358

Owner ID #: \_\_\_\_\_



**MINNESOTA POLLUTION  
CONTROL AGENCY**

Return completed form to  
 Aboveground Tank Program  
 Tanks and Spills Section  
 Hazardous Waste  
 Minnesota Pollution Control Agency  
 520 Lafayette Road  
 St Paul, Minnesota 55155

This document is available in other formats,  
 including Braille, large print and audio tape  
 TTY (612) 282-5332 or 1-800-657-3864 (V/TTY)

PQ-00586-01  
 AUGUST 1994

Printed on recycled paper containing at least 10%  
 fibers from paper recycled by consumers



# COMPLETE ALL ITEMS FOR EACH TANK ON SITE

(see explanations below)

TANK	STORED PRODUCT	CAPACITY OF TANK	THRUPUT PER MONTH	STATUS	AGE OF TANK	DATE INSTALL/REMOVE	TANK MATERIAL	DIKE BOTTOM	DIKE SIDE	TANK BASE (indicate if tank is indoors)	PIPE MATERIAL	PIPE LOCATION
1	GASOLINE	500	1000	ACT	9/15/94	9/15/94	(M)(DW)	NONE	NONE	CEMENT	NONE	NA
2	DIESEL	500	500	ACT	9/15/94	9/15/94	(M)(DW)	NONE	NONE	CEMENT	NONE	NA
3												
4												
5												
6												
7												
8												
9												
10												

TANK# USE NUMBER GIVEN, UNLESS YOU HAVE A DIFFERENT NUMBERING SYSTEM IF SO, LIST YOUR NUMBER TO THE LEFT OF THE NUMBER GIVEN

STORED PRODUCT LIST SUBSTANCES STORED (E.G. FUEL OIL 2, GASOLINE)

CAPACITY MAXIMUM TANK CAPACITY IN GALLONS

THROUGHPUT APPROXIMATE NUMBER OF GALLONS OF PRODUCT PASSING THROUGH EACH TANK PER MONTH

STATUS ACT (FOR ACTIVE) IN (FOR TEMPORARILY INACTIVE) CLOSED (FOR PERMANENTLY OUT OF SERVICE) REMOVED

AGE OF TANK USE APPROXIMATE DATE IF UNKNOWN E.G. 1-1-68 OR 1968 (DO NOT PUT DATE IN YEARS - E.G. 40 YEARS OLD)

DATE INSTALL/REMOVE INSTALL DATE - TANK WAS PUT INTO SERVICE AT THIS SITE (OFTEN THE SAME DATE AS AGE OF TANK) REMOVE DATE - TANK WAS REMOVED FROM THE SITE

TANK MATERIALS (M) METAL (FRP) FIBERGLASS REINFORCED PLASTIC (C) CONCRETE (DW) DOUBLE WALLED (O) OTHER

DIKE BOTTOM/SIDE BLOCK CONCRETE CLAY SYNTHETIC LINER DOUBLE WALLED EARTH NONE OTHER

TANK BASE WHAT THE TANK IS SITTING ON EX ON GROUND ON SUPPORTS ON CEMENT ON LINER DOUBLE BOTTOM INDOORS OTHER

PIPE MATERIAL STEEL/IRON COPPER IRP GALVANIZED NONE OTHER

PIPE LOCATION ABOVE GROUND UNDERGROUND NA (NOT APPLICABLE)

Please keep a copy of this form for your records. When changes are made to the current information, please contact the MPCA at (612) 297-8618 for additional notification forms

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this and all attached documents  
I believe that the submitted information is true, accurate and complete

Print name and official title of  
owner or owner's representative

MICHAEL NETZEL

GOLF MANAGER

Owner/representative signature

Michael Netzel

Date

10-3-94



PQ 00410-01 (7/85)



5358

Page 1 of 4



# Notification/Change in Status for Aboveground Storage Tanks

## Minnesota Pollution Control Agency

Metro District/ Regular Facilities 2<sup>nd</sup> Floor

520 Lafayette Road North St Paul, MN 55155

(651) 297-8664 or 800/657-3864 Fax# (651) 282-6247

Facility Information

Site #:

County

Please type or use black/blue ink and complete all applicable sections as accurately as possible. If the site has more than 6 tanks, please photocopy this form prior to completion and submit additional sheets as necessary. If you have questions refer to directions or call.

Return the completed and signed form to **Attn. Joann Henry** at the above address

UNSIGNED FORMS WILL BE RETURNED PLEASE RETAIN A COPY FOR YOUR RECORDS.

A. Facility Information							
Tank Location				Tank Owner			
Site Name	Lester Park Golf Course			Name	City of Duluth		
Street	1860 Lester River Road			Street	4825 Mike Coldelli Drive		
City	Duluth	County	St Louis	City	Duluth		
State	MN	Zip	55804	State	MN	Zip	55807
Contact Name	Jeff Anderson			Phone	218-525-0829		
Contact Name	Chuck Faegre			Phone	218-723-3373		
Has the site been registered before?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			Does the site have SPCC plan	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Fill in if known	Site #	5358	Major Facility #	unk	Does the facility have a site diagram	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
B. Tank Action							
Date	Tank # If unknown assign (i.e. 1001, 1002...)						
DD/MM/YY	# 1003	# 1004	#	#	#	#	#
Site Name/Address Change	01/11/00						
Owner Change	1/1/						
Substance Stored Change	1/1/	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Installed New Tank/Piping	1/1/	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Repaired/Upgraded Tank/Piping	1/1/	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Removed Tank	1/1/	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tank Out of Service	1/1/	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. Tank Information							
1. Capacity in Gallons (Size of Tank)	265	265					
2. Substance Stored in Tank? (Gas, Diesel ect.)	Fuel oil	Fuel oil					
3. Is Tank within 500ft. of a Class 2 Surface water	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
4. Is the Tank Indoors? (Check qualification)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
5. Is Tank Used for Home Heating?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
6. Is Tank Located on a Farm or Used for Noncommercial Residential use	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
7. Is Tank and Piping Labeled?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
8. Tank Type							
Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass/Synthetic/Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please describe)							
Double-Walled Tank	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Double-Bottom Tank	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>



C. Tank Information Continued		Tank# 1003		Tank# 1004		Tank#		Tank#		Tank#		Tank#	
		Side	Bot	Side	Bot	Side	Bot	Side	Bot	Side	Bot	Side	Bot
<b>9. Secondary Containment (Dikes)</b> <i>None</i>													
Concrete		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Steel or Fiberglass		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Soil (meeting permeability requirements)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Synthetic Membrane		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Geosynthetic Clay Liner		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
% Containment of Tank (i.e. 100%, 110% ect)													
<b>10. Corrosion Protection</b> <i>None</i>													
Sacrificial Anodes System		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Impressed Current System		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Draining Concrete Pad		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Internal Liner (in accordance w/ API 652)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Internal Inspection (in accordance w/ API 653)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>11. AST Base Material (what is under tank)</b>													
Concrete Slab or Pad		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Concrete Ring Wall		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Asphalt		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ground (soils, rock, sand ect)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Supports (elevated above ground)		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Impermeable Liner (Describe)													
<b>12. Overfill Protection</b>													
High Level Alarm (Visible or Audible)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Automatic Shut-Off		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mounted Sight Glass/Gauge (refer to directions)		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manual Gauge (refer to directions)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>13. Substance Transfer Area</b> <i>None</i>													
Pad		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Curbed Pad		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spill Box		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify)													
<b>14. Leak Detection</b>													
Visual Monitoring (elevated tanks)		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interstitial Monitoring (for double-walled tanks)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Soil Vapor Monitoring		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SIR (Statistical Inventory Reconciliation)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Monthly Reconciliation		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>D. Piping Information</b>													
1. Type of Pipe (steel, flexible, plastic, fiberglass.)		<i>Copper</i>		<i>Copper</i>									
2. Piping Location aboveground or underground		Ab <input checked="" type="checkbox"/> Un <input type="checkbox"/>	Ab <input checked="" type="checkbox"/> Un <input type="checkbox"/>	Ab <input type="checkbox"/> Un <input type="checkbox"/>	Ab <input type="checkbox"/> Un <input type="checkbox"/>	Ab <input type="checkbox"/> Un <input type="checkbox"/>	Ab <input type="checkbox"/> Un <input type="checkbox"/>	Ab <input type="checkbox"/> Un <input type="checkbox"/>	Ab <input type="checkbox"/> Un <input type="checkbox"/>	Ab <input type="checkbox"/> Un <input type="checkbox"/>	Ab <input type="checkbox"/> Un <input type="checkbox"/>	Ab <input type="checkbox"/> Un <input type="checkbox"/>	Ab <input type="checkbox"/> Un <input type="checkbox"/>
3. Double-walled		Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>4. Corrosion Protection</b> <i>None</i>													
Sacrificial Anodes System		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Impressed Current System		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify in comments box in directions)													
<b>5. Pipe Monitoring</b> <i>None</i>													
Tracer Gas		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydrostatic		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lock Down Pressures		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sump Sensor		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other approved method (please specify)													
<b>E. Signature</b>													
Printed name of owner or authorized representative		Signature of owner or authorized representative						Date					
<i>Chuck Faegre</i>		<i>Chuck Faegre</i>						<i>11-1-00</i>					





## Tank Site and Owner Information

AI ID  
42034

5/10/2022

Tank Designation  
All

Reset Filters

### Lester Park Golf Course

---

**Address**

1860 Lester River Rd  
Duluth, MN 55804

**Mailing Address**

1860 Lester River Rd  
Duluth, MN 55804

**24 Hr Phone**

Null

**Owner (Person)**

Enger Golf Course  
Office Phone:  
Mobile Phone:  
Other Phone:

**Owner (Organization)** None**Historic Tank  
Site Number(s)**

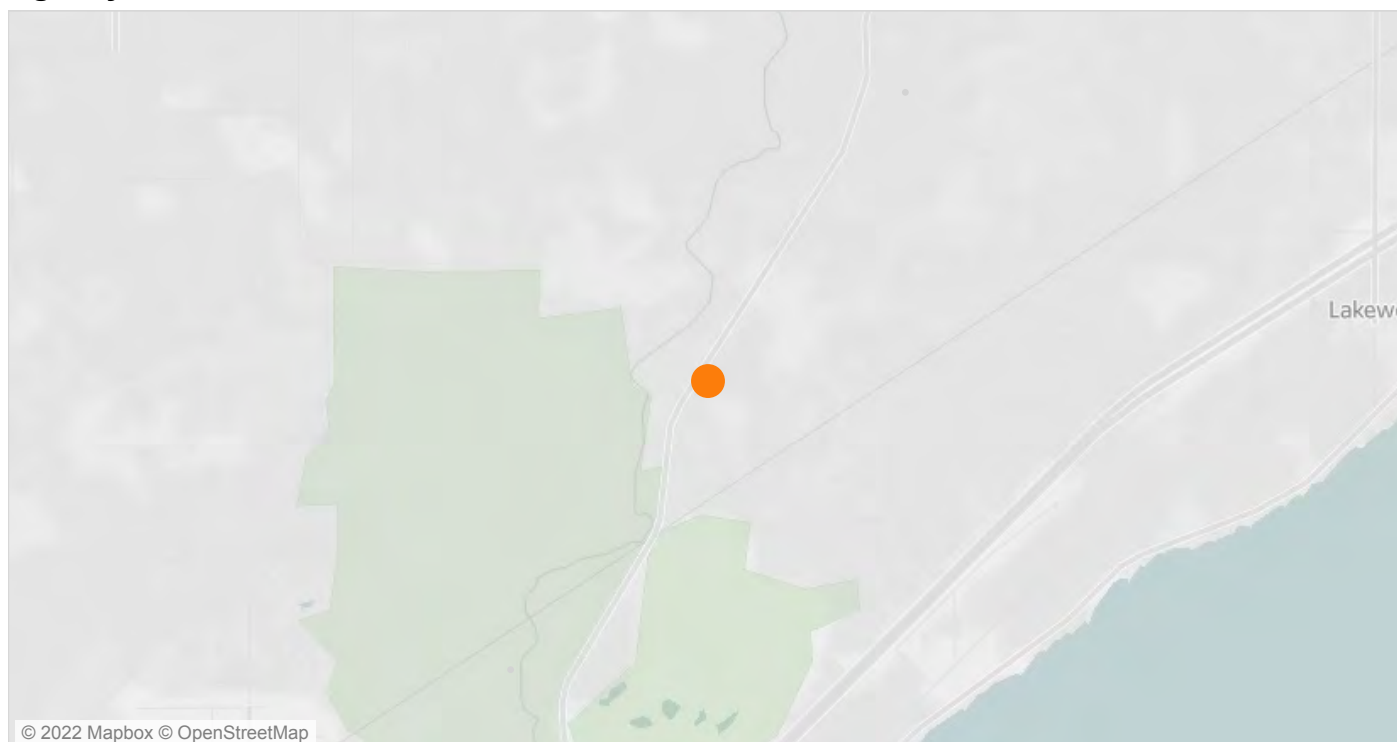
TS0005358

**Tank Count** \*adjusts with Tank Designation filter

UST 2

AST 2

### Agency Interest Location





Tank Summary

Tank Designation	Subject Item	A/U	Tank Status	Stored Product	Capacity Gallons	Tank Material	Pipe Material
1	EQUI00000000004	A	Active	Gasoline Blends (E1-E49)	500	Carbon steel	Null
2	EQUI00000000003	A	Active	Diesel Fuel	500	Carbon steel	Null
001	EQUI00000000002	U	Removed	Gasoline	350	Bare/Paint/Asph Coat Steel	Steel/Iron
002	EQUI00000000001	U	Removed	Gasoline	0	Other	Other



## UST - Individual Information

001	EQUI0000000002	UST	Tank Designation: 001 Tank Dispens Type: Suction Tank Material: Bare/Paint/Asph Coat Steel Tank Cath Pro: Not needed	Total Capacity: 350 Tank Status: Removed # of Tank Compartments: 1 Compartment Stored Product:
			Pipe Material: Steel/Iron Pipe Wall Type: Single Pipe Ext Corr Protect: None  Install Date: 06/01/1975 Status Change: 04/24/1990 Wall Type: Single Stored Product: Gasoline	--Overfill Information-- Tank Overfill Prevent: UST Not needed  --Piping Release Protection-- Tank Release Detect: UST Not needed Spill Bkt Wall Type: Pipe Leak Detect: SSP
002	EQUI0000000001	UST	Tank Designation: 002 Tank Dispens Type: Gravity Tank Material: Other Tank Cath Pro: Not needed	Total Capacity: 0 Tank Status: Removed # of Tank Compartments: 1 Compartment Stored Product:
			Pipe Material: Other Pipe Wall Type: Single Pipe Ext Corr Protect: None  Install Date: 01/01/1900 Status Change: 04/24/1990 Wall Type: Single Stored Product: Gasoline	--Overfill Information-- Tank Overfill Prevent: UST Not needed  --Piping Release Protection-- Tank Release Detect: UST Not needed Spill Bkt Wall Type: Pipe Leak Detect: NONE



### AST - Individual Information

1	EQUI0000000004	AST	Tank Designation: 1	Install Date: 09/15/1994
			Tank Dispens Type:	Status Change: 11/01/1994
			Tank Material: Carbon steel	Wall Type: Double
			Tank Cath Pro:	Stored Product: Gasoline Blends (E1-E49)
			Pipe Material:	Total Capacity: 500
			Pipe Wall Type:	Tank Status: Active
			Pipe Ext Corr Protect:	# of Tank Compartments: 1
				Compartment Stored Product:
2	EQUI0000000003	AST	Tank Designation: 2	Install Date: 09/15/1994
			Tank Dispens Type:	Status Change: 11/01/1994
			Tank Material: Carbon steel	Wall Type: Double
			Tank Cath Pro:	Stored Product: Diesel Fuel
			Pipe Material:	Total Capacity: 500
			Pipe Wall Type:	Tank Status: Active
			Pipe Ext Corr Protect:	# of Tank Compartments: 1
				Compartment Stored Product:



## Compliance and Enforcement

Activity Type Desc	Activity Id	Date	Staff	
Aboveground Storage Tank Notification of Installation or Change in Status	NOT19940001	05/05/2000	Null	
Underground Storage Tank Notification of Installation or Change in Status	NOT19750001	10/08/1986	Null	
	NOT19900001	04/24/1990	Null	
	NOT20000001	01/01/1900	Null	



## **Compliance and Enforcement Comments**



## Correspondence

Received Date	Comment Type Desc	Comments
08/04/1992	Registration Form	The following comment was entered on: 10/08/86 REFER QUESTIONS TO MARC MCSHANE (218)723-3344 OR MIKE HOLMQUIST (218)723-3299 TANKS 001,002 REMOVED PER LETTER FROM CITY OF DULUTH REC'D 05/07/90. WHILE REMOVING TANK 001, REMOVERS DISCOVERED SECOND TANK AND MUCH CONTAMINATION. LITTLE INFO AVAILABLE ON SECOND TANK. OLD NOTICE ATTCHD.
03/01/2001	Registration Form	Company: CITY OF DULUTH Client: CHUCK FAEGRE PCA: JCH /--/3/1/2001 CHUCK FAEGRE, CITY OF DULUTH SENT NOTIFICATION FORM TO REGISTER 2 265 GA. AST TANKS CONTAINING FUEL OIL- I DID NOT LIST THESE 2 TANKS ON THE RECORD. FORM SIGNED 11/1/2000



## **Appendix E**

### **Historical Aerial Photographs**





# Historical Aerial Photo Report | 2022

Order Number: 71089

Report Generated: 04/28/2022

Project Name: Lester Park Ph I ESA

Project Number: J220163

Lester Park 4th Division  
6401 E Superior St  
Duluth, MN, 55804

---

2 Corporate Dr  
Suite 450  
Shelton, CT 06484  
Toll Free: 866-211-2028  
[www.envirositecorp.com](http://www.envirositecorp.com)



Envirosite's Historical Aerial Photo Report is designed to assist in evaluating a subject property resulting from past activities. EnviroSite's Historical Aerial Photo Report includes a search of available historical aerial photographs, dating back to the 1930s, or earliest available photographs.

## **ENVIROSITE SEARCHED SOURCES**

### **SUBJECT PROPERTY:**

Lester Park 4th Division  
6401 E Superior St  
Duluth, MN, 55804

### **YEAR:**

1939  
1948  
1952  
1953  
1961  
1972  
1973  
1975  
1978  
1981  
1986  
1989  
1991  
1992  
1997  
2008  
2010  
2013  
2015  
2017  
2019

### **SCALE:**

1" = 500'  
1" = 500'  
1" = 500'  
1" = 1,000'  
1" = 500'  
1" = 500'  
1" = 1,000'  
1" = 500'  
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1" = 1,000'  
1" = 500'  
1" = 500'  
1" = 500'  
1" = 500'  
1" = 500'  
1" = 500'

### **SOURCE:**

M.H.A.P  
M.H.A.P  
U.S.G.S  
U.S.G.S  
M.H.A.P  
M.H.A.P  
U.S.G.S  
U.S.G.S  
U.S.G.S  
NHAP  
M.H.A.P  
DOQ  
NAPP  
NAPP  
NAIP  
NAIP  
NAIP  
NAIP  
NAIP  
NAIP  
NAIP

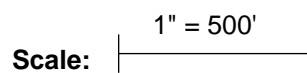
### **Disclaimer - Copyright and Trademark Notice**

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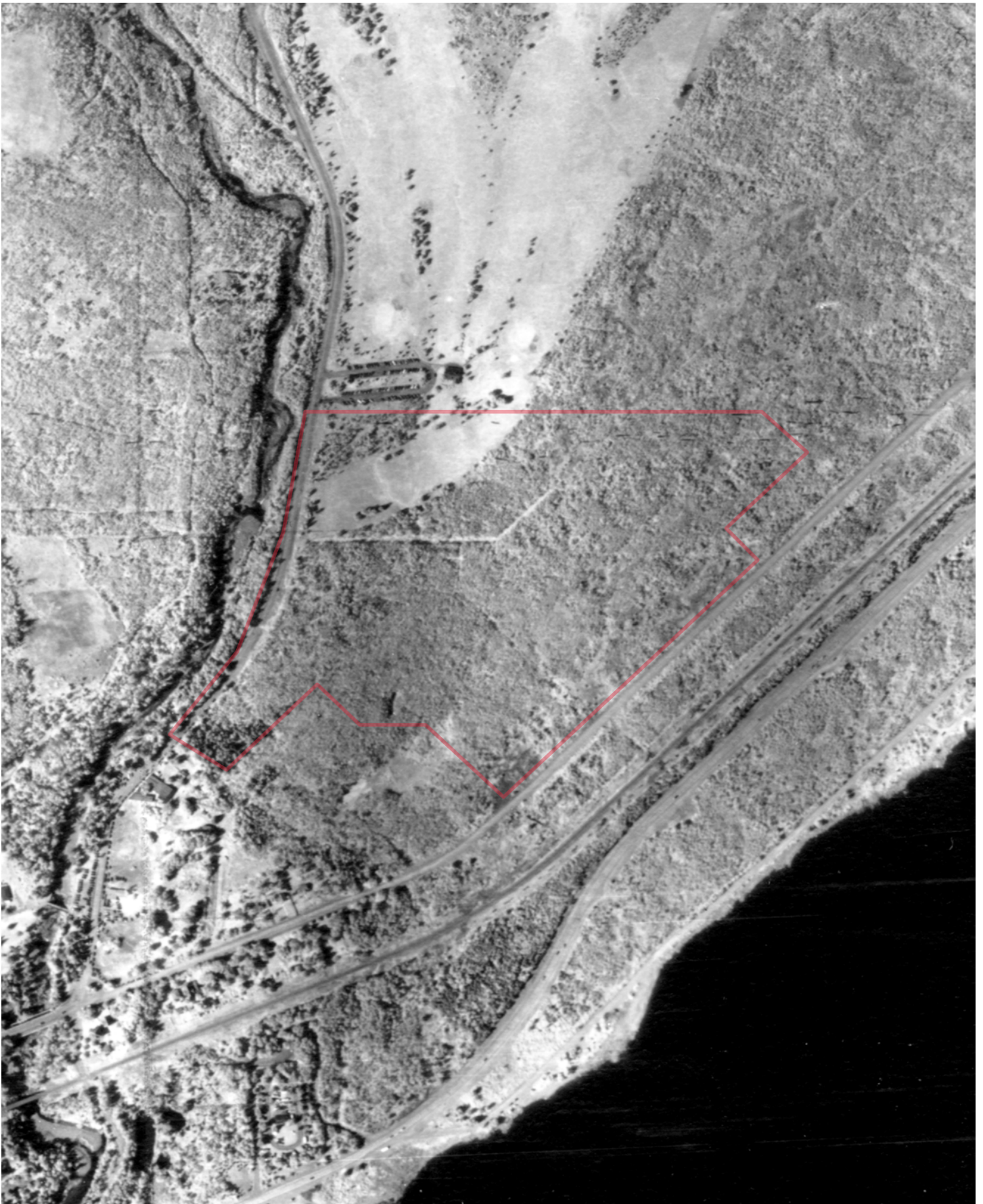
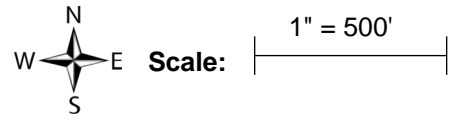
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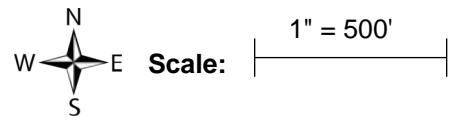


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1948



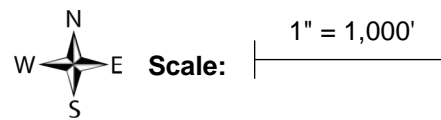


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1952



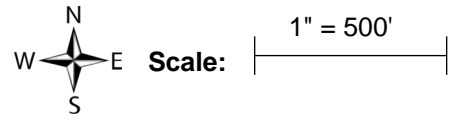


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1953



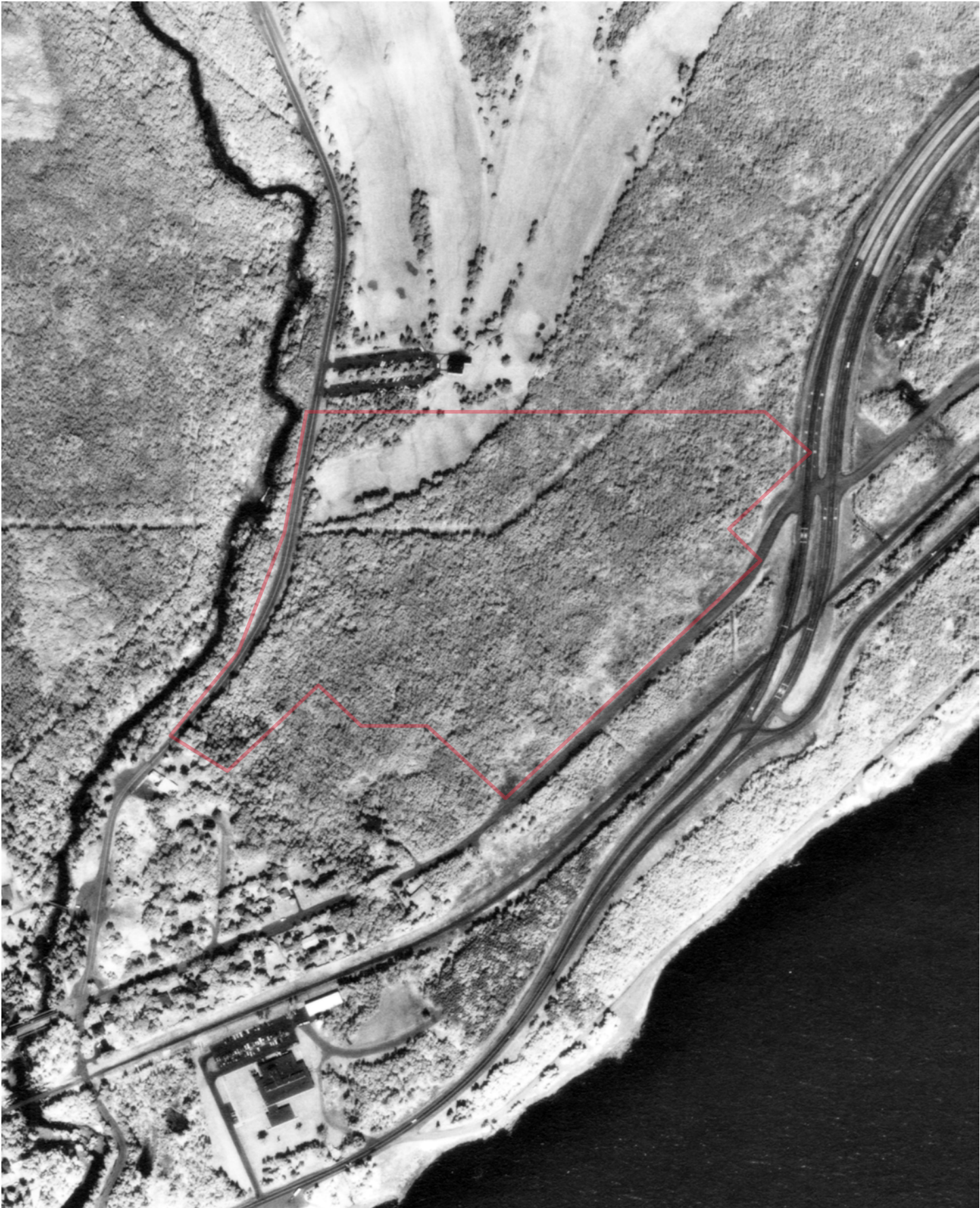
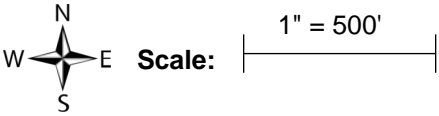


**FLIGHT YEAR:**  
1961



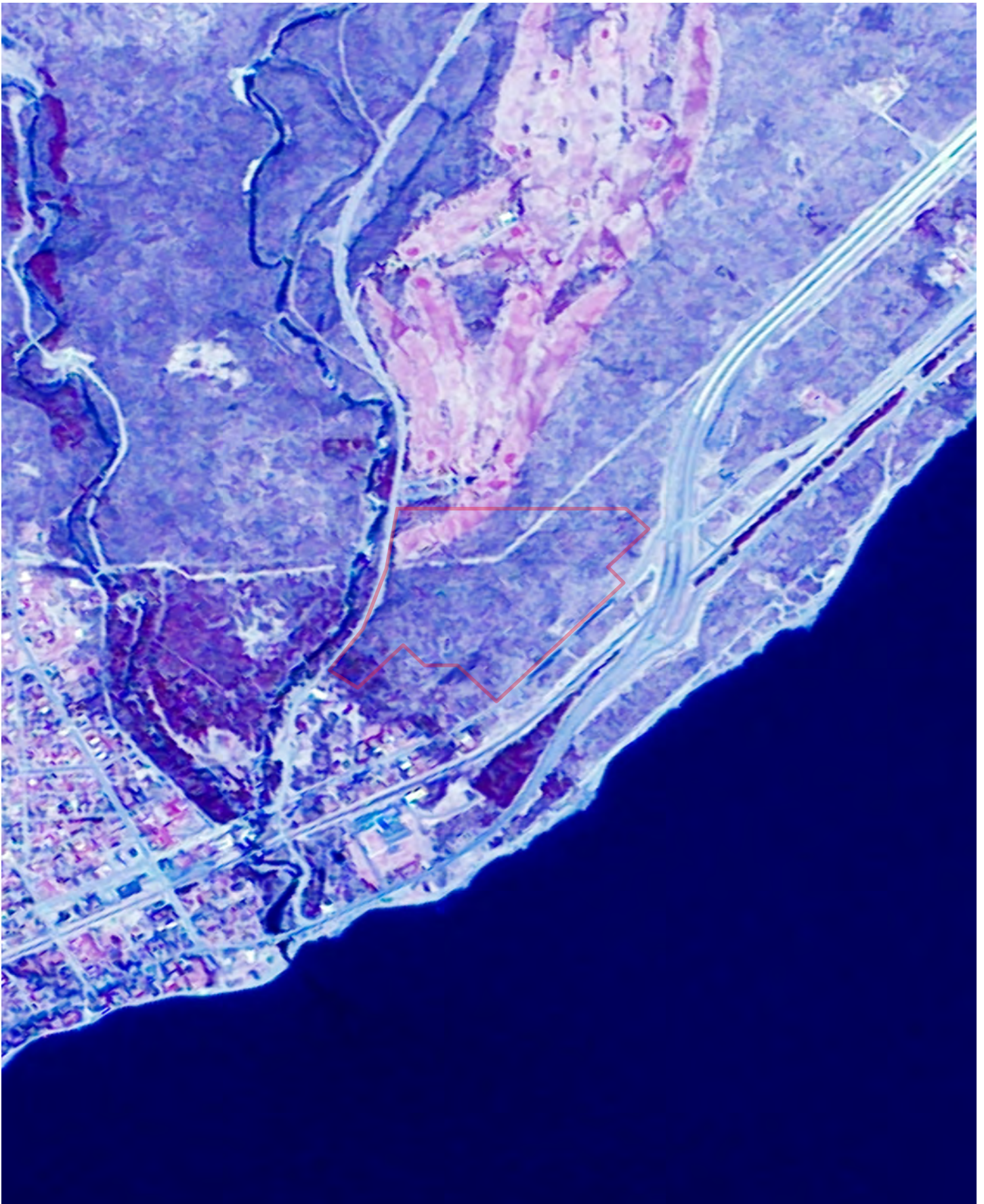
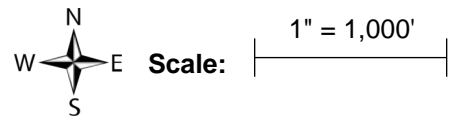


**FLIGHT YEAR:**  
1972



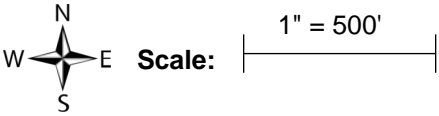


**FLIGHT YEAR:**  
1973



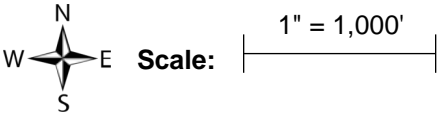


**FLIGHT YEAR:**  
1975



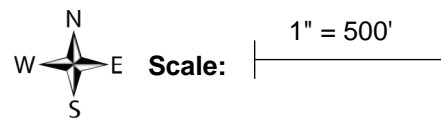


**FLIGHT YEAR:**  
1978



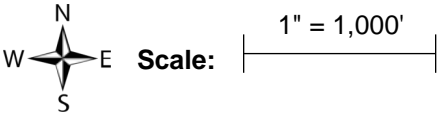


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1981



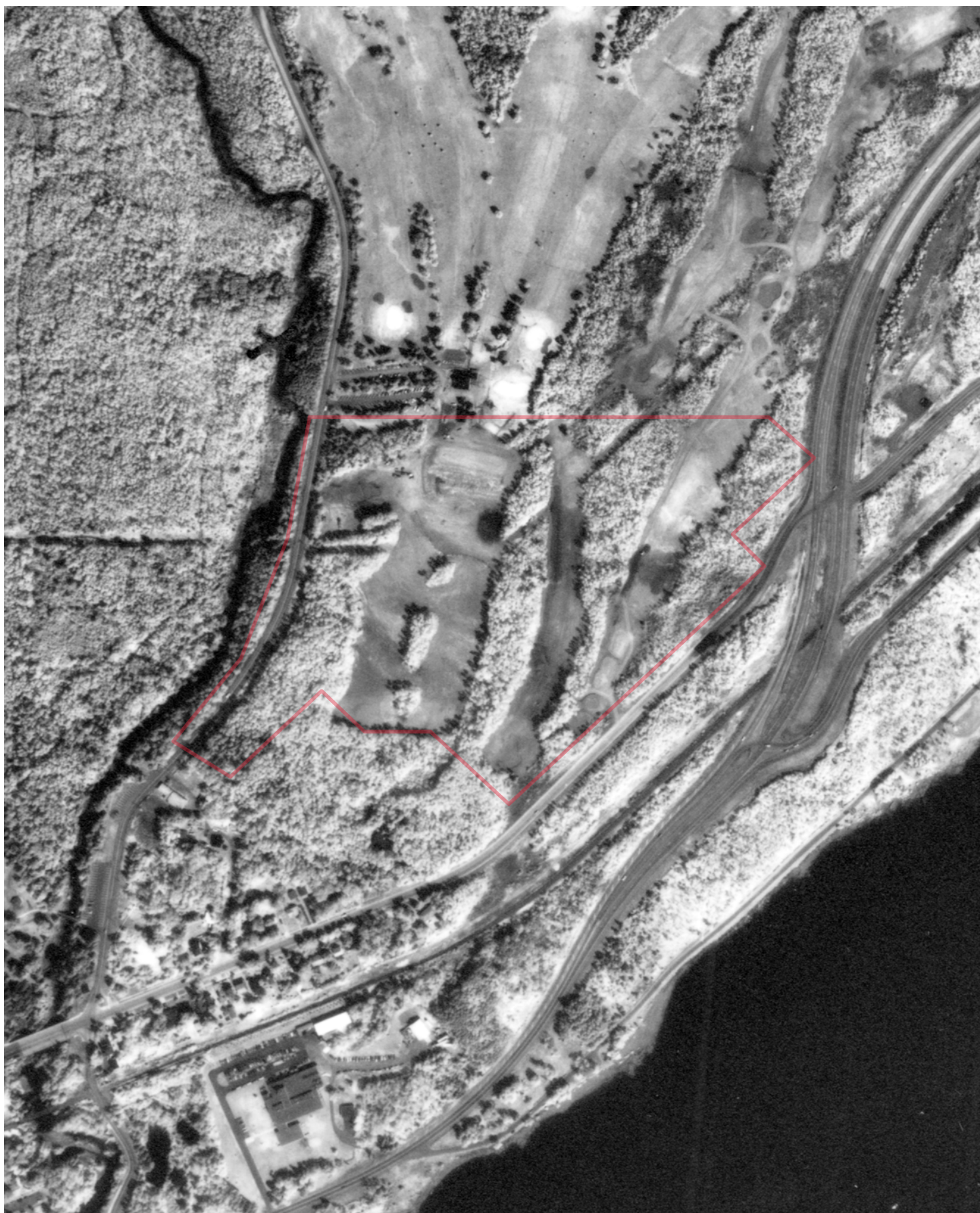
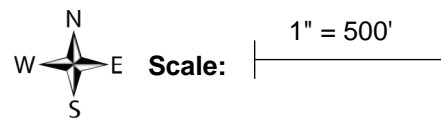


**FLIGHT YEAR:**  
1986





**FLIGHT YEAR:**  
1989





**FLIGHT YEAR:**  
1991

**Subject Cannot Be Centered**

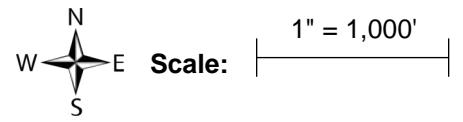


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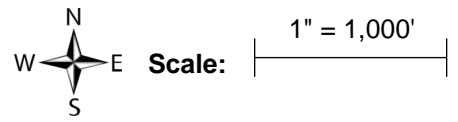


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1992



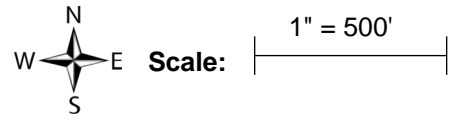


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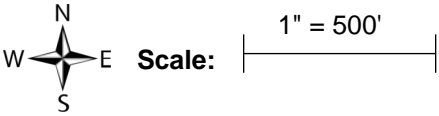


**FLIGHT YEAR:**  
2008



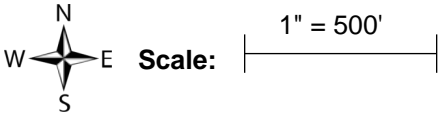


**FLIGHT YEAR:**  
2010



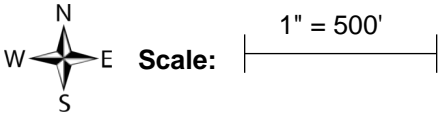


**FLIGHT YEAR:**  
2013



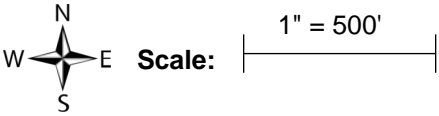


**FLIGHT YEAR:**  
2015



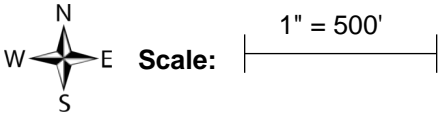


**FLIGHT YEAR:**  
2017





**FLIGHT YEAR:**  
2019





## **Appendix F**

### **Historical Real Estate Maps**



# HIG Research Summary

## Site Location

Lester Park 4th Division  
6401 E Superior St  
Duluth, MN

## Requested by

Envirosite Corporation  
2 Corporate Drive, Suite 450  
Shelton, CT

## HIG Project #

2063285

## Client Project #

71089

## Date Created

04/27/2022



This Research Summary identifies the products and services provided by Historical Information Gatherers, Inc. (HIG) for the above referenced site location. All products are provided as PDFs unless otherwise noted.

## FIM+ Maps

The HIG Historical Map Collection and the United States Library of Congress Map Collection were searched for fire insurance maps (FIMs), real estate atlases and similar maps for the site location and adjoining properties. These maps were used to create a multi-page file named FIM+Maps. The maps have title blocks that include the map publisher, year the map was created and, if applicable, the year the map was last updated. The years provided are:

*1902, 1924, 1955, 1963*

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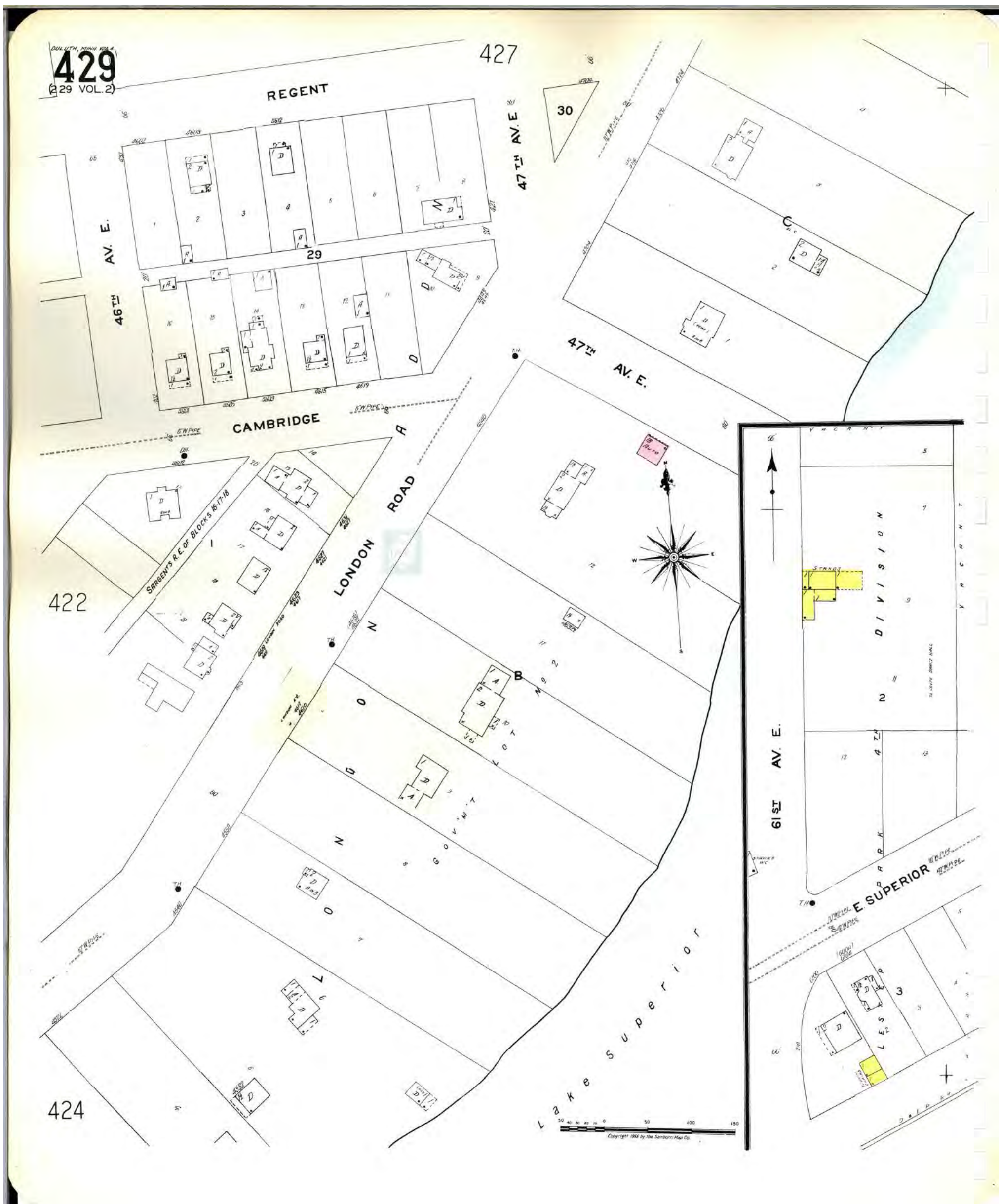
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Map Type: Fire Insurance  
 Publisher: Sanborn Map Co.  
 Publication Name: Duluth, MN Vol. 3  
 Base Map Date: 1909  
 Revised Date: September 1963  
 Republished Date: 1955  
 Sheet Number: 429

1963

Requested by: EnviroSite Corporation

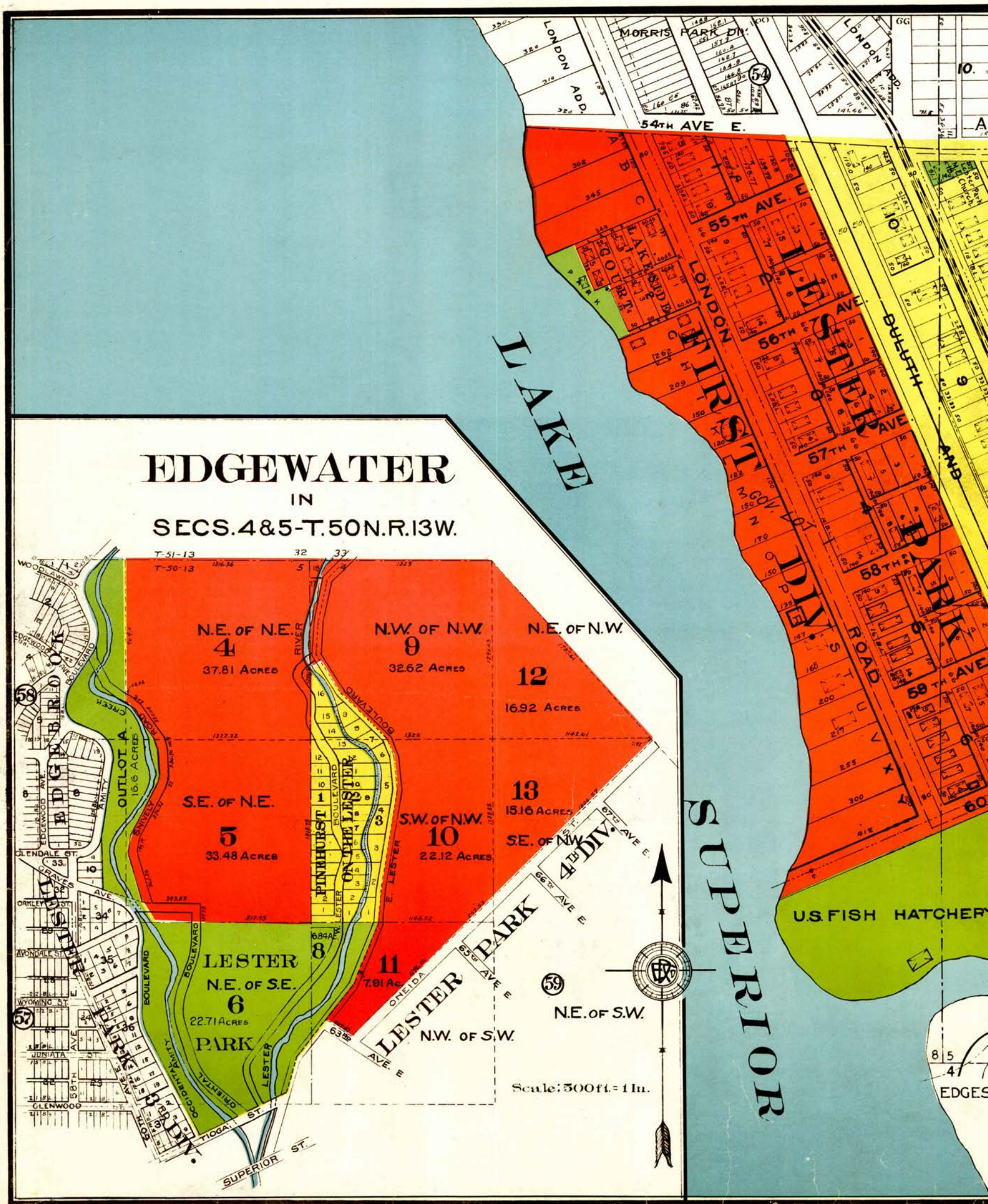
Lester Park 4th Division  
 6401 E Superior St  
 Duluth, MN 55804  
 Client Project # 71089  
 HIG Project # 2063285 [www.historicalinfo.com](http://www.historicalinfo.com)



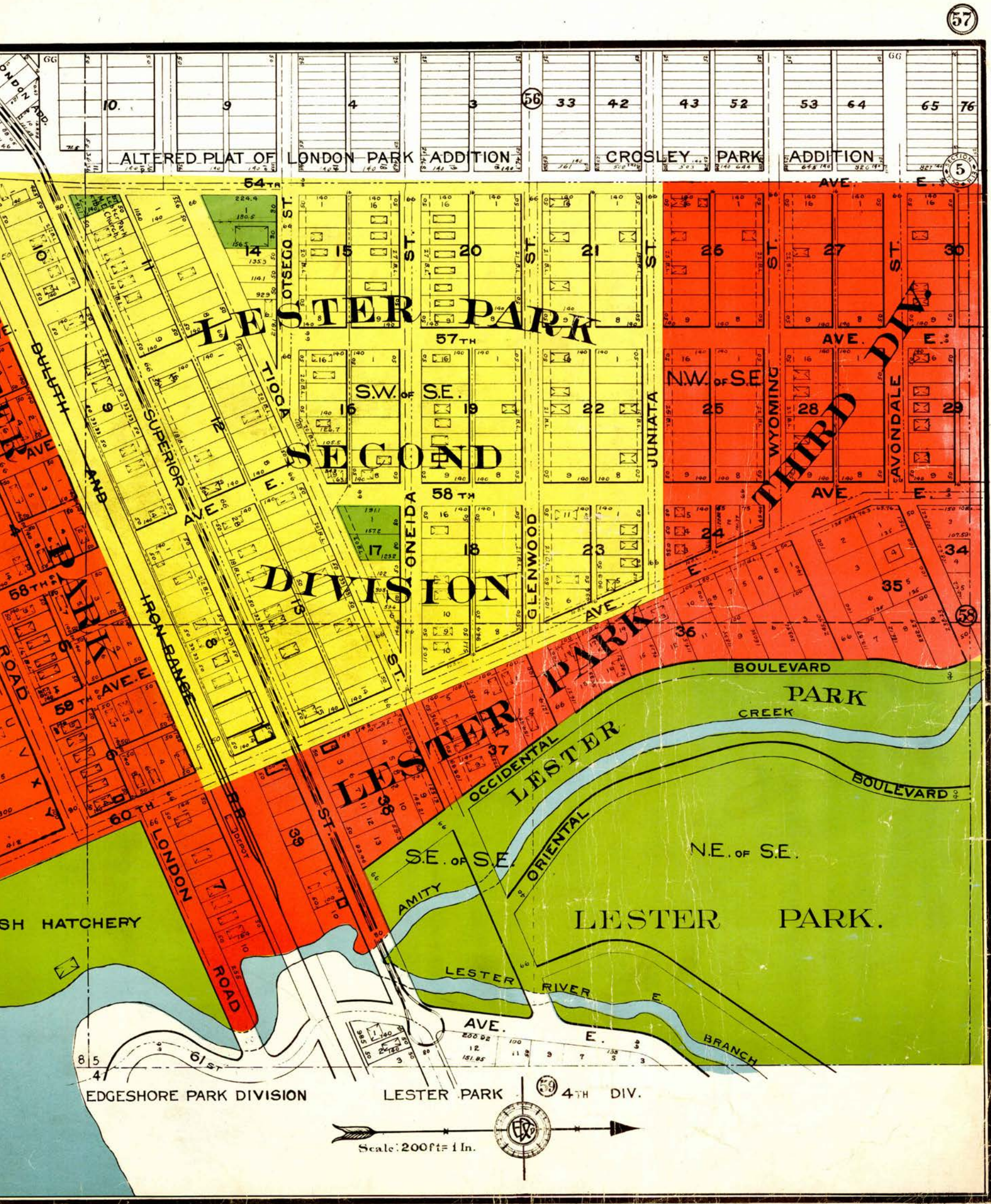












Map Type: Real Estate Atlas  
Publisher: Duluth Engineering Co.  
Publication Name: Duluth, MN  
Base Map Date: 1924  
Revised Date:  
Republished Date:  
Sheet Number: 57R

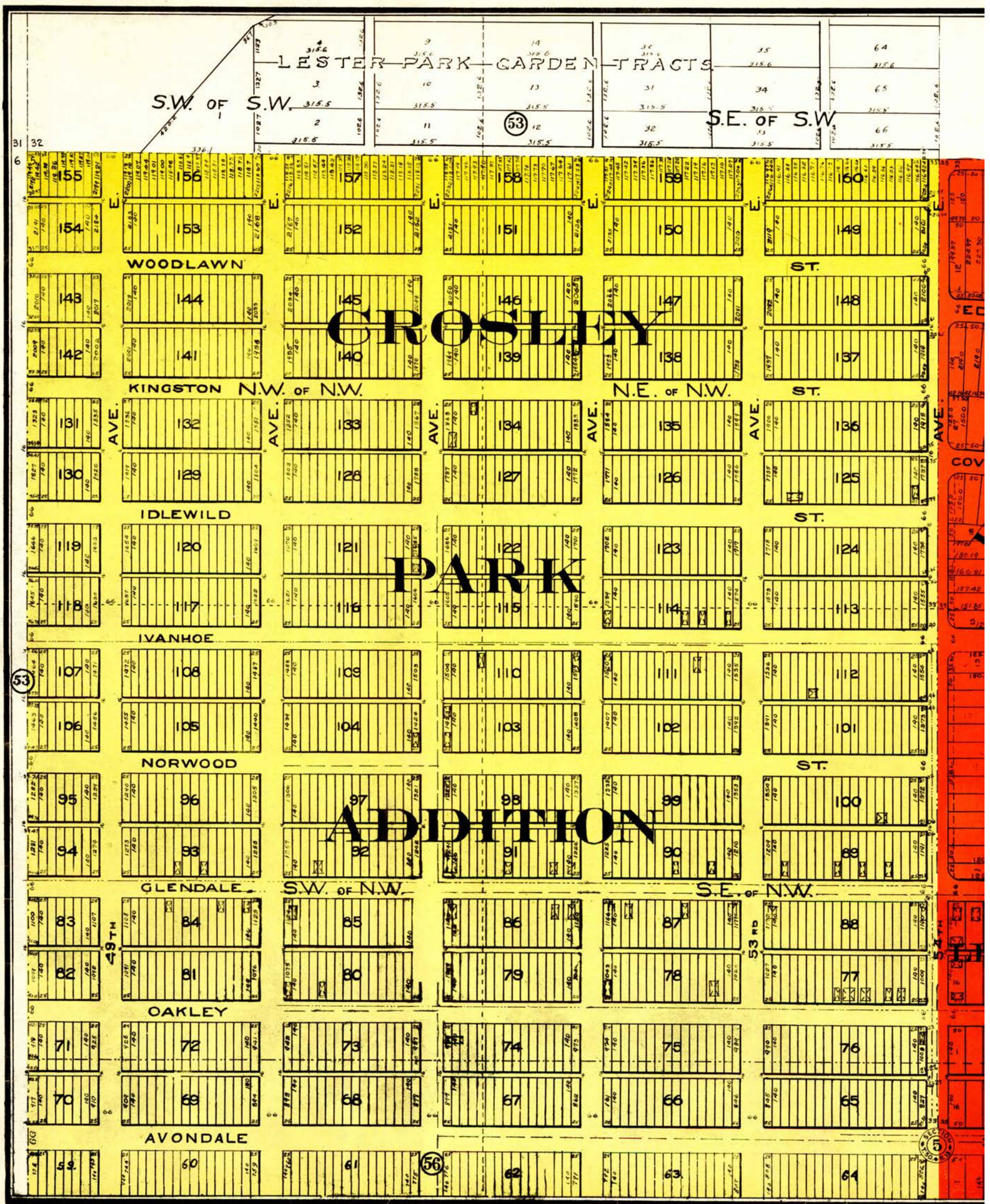
1924

Requested by: Envirosite Corporation

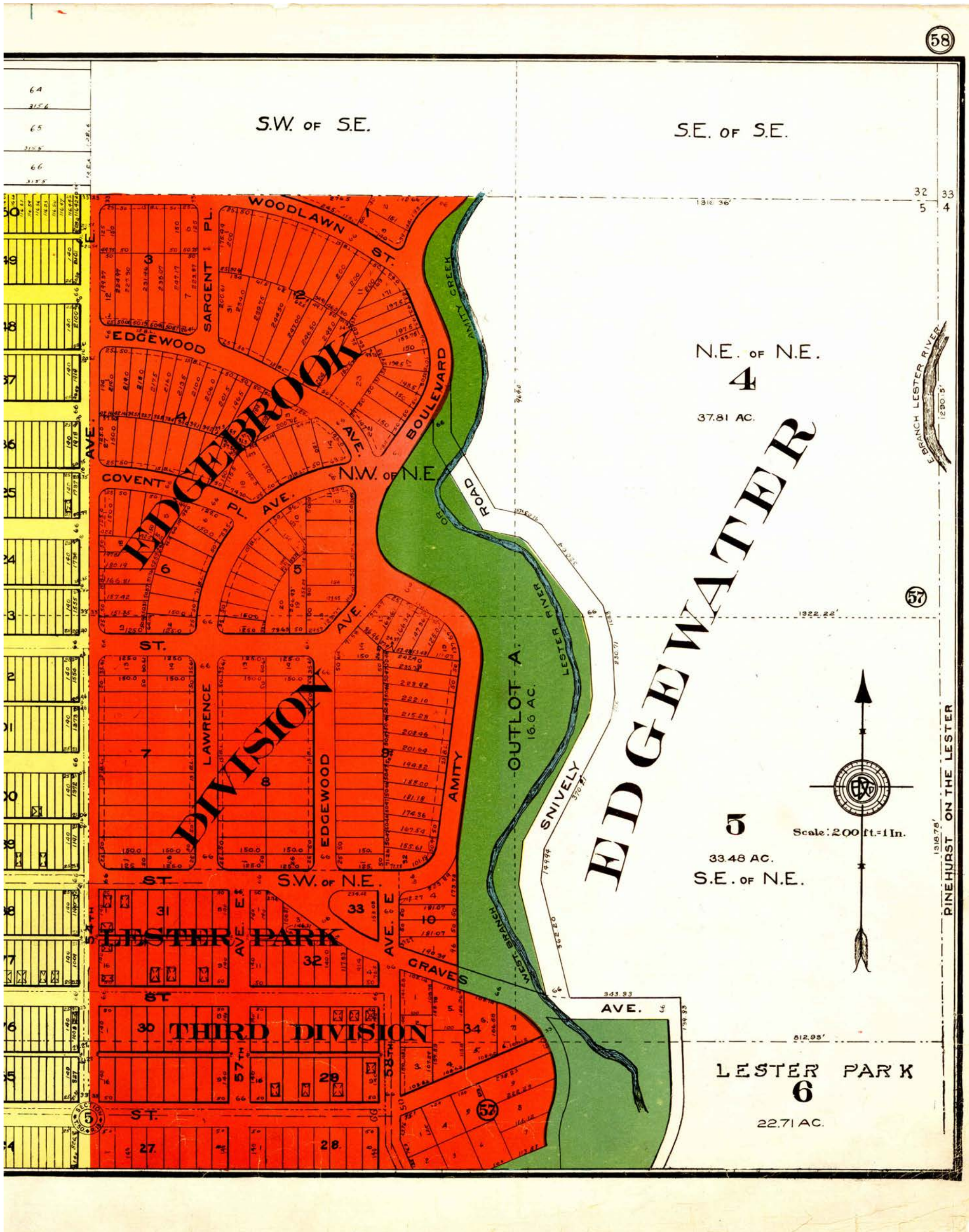
Lester Park 4th Division  
6401 E Superior St  
Duluth, MN 55804  
Client Project # 71089  
HIG Project # 2063285 [www.historicalinfo.com](http://www.historicalinfo.com)



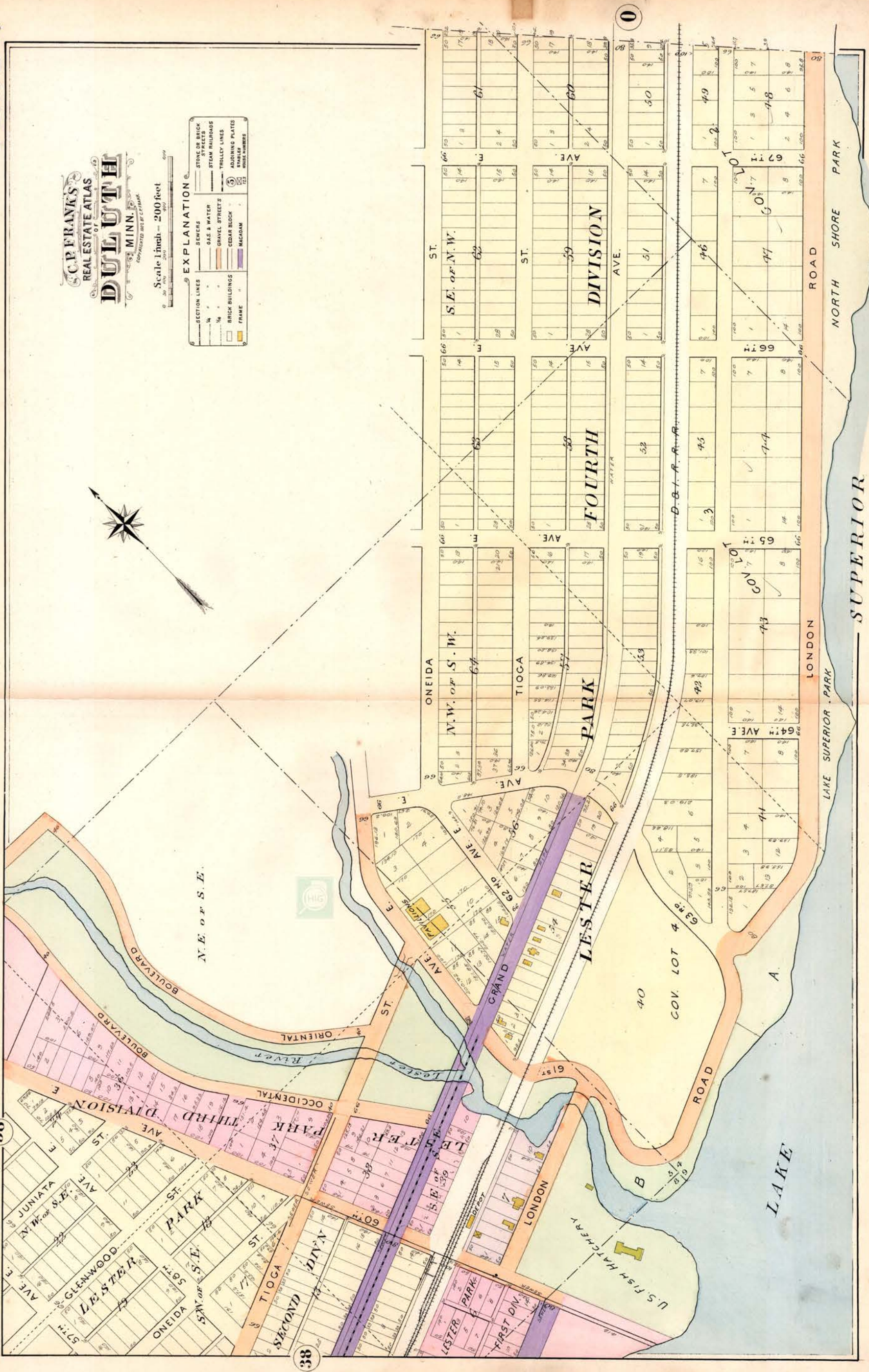














## **Appendix G**

### **Historical Topographic Maps**





## Historical Topographic Map Report | 2022

Order Number: 71089

Report Generated: 04/26/2022

Project Name: Lester Park Ph I ESA

Project Number: J220163

Lester Park 4th Division  
6401 E Superior St  
Duluth, MN 55804

---

2 Corporate Drive  
Suite 450  
Shelton, CT 06484  
Toll Free: 866-211-2028  
[www.envirositecorp.com](http://www.envirositecorp.com)



Envirosite's Historical Topographic Map Report is designed to assist in evaluating a subject property resulting from past activities. Envirosite's Historical Topographic Map Report includes a search of USGS historical topographic maps, dating back to the early 1900s.

## TOPOGRAPHIC MAPS FOUND:

	<u>Map Name:</u>	<u>Year:</u>	<u>Revision Year:</u>	<u>Scale:</u>
1.	<u>Duluth</u>	1895	N/R	1 : 62500
2.	<u>Duluth</u>	1953	1969	1 : 24000
3.	<u>Duluth</u>	1953	1975	1 : 24000
4.	<u>Duluth</u>	1953	N/R	1 : 24000
5.	<u>Duluth</u>	1953	1993	1 : 24000
6.	<u>Duluth</u>	1953	1975	1 : 24000
7.	<u>Lakewood</u>	1953	1969	1 : 24000
8.	<u>Lakewood</u>	1953	N/R	1 : 24000
9.	<u>Duluth</u>	1953	N/R	1 : 62500
10.	<u>Lakewood</u>	1992	N/R	1 : 24000
11.	<u>Duluth</u>	2010	N/R	1 : 24000
12.	<u>Lakewood</u>	2010	N/R	1 : 24000
13.	<u>Duluth</u>	2013	N/R	1 : 24000
14.	<u>Lakewood</u>	2013	N/R	1 : 24000
15.	<u>Duluth</u>	2016	N/R	1 : 24000
16.	<u>Lakewood</u>	2016	N/R	1 : 24000
17.	<u>Duluth</u>	2019	N/R	1 : 24000
18.	<u>Lakewood</u>	2019	N/R	1 : 24000
19.	<u>Duluth</u>	2022	N/R	1 : 24000
20.	<u>Lakewood</u>	2022	N/R	1 : 24000

The USGS 7.5 minute series includes scales 1:24,000 / 1:25,000 / 1:31,680. The USGS 15 minute series includes scales 1:48,000 / 1:62,500 / 1:63,360. The USGS 30x60 minute series scale is 1:100,000.

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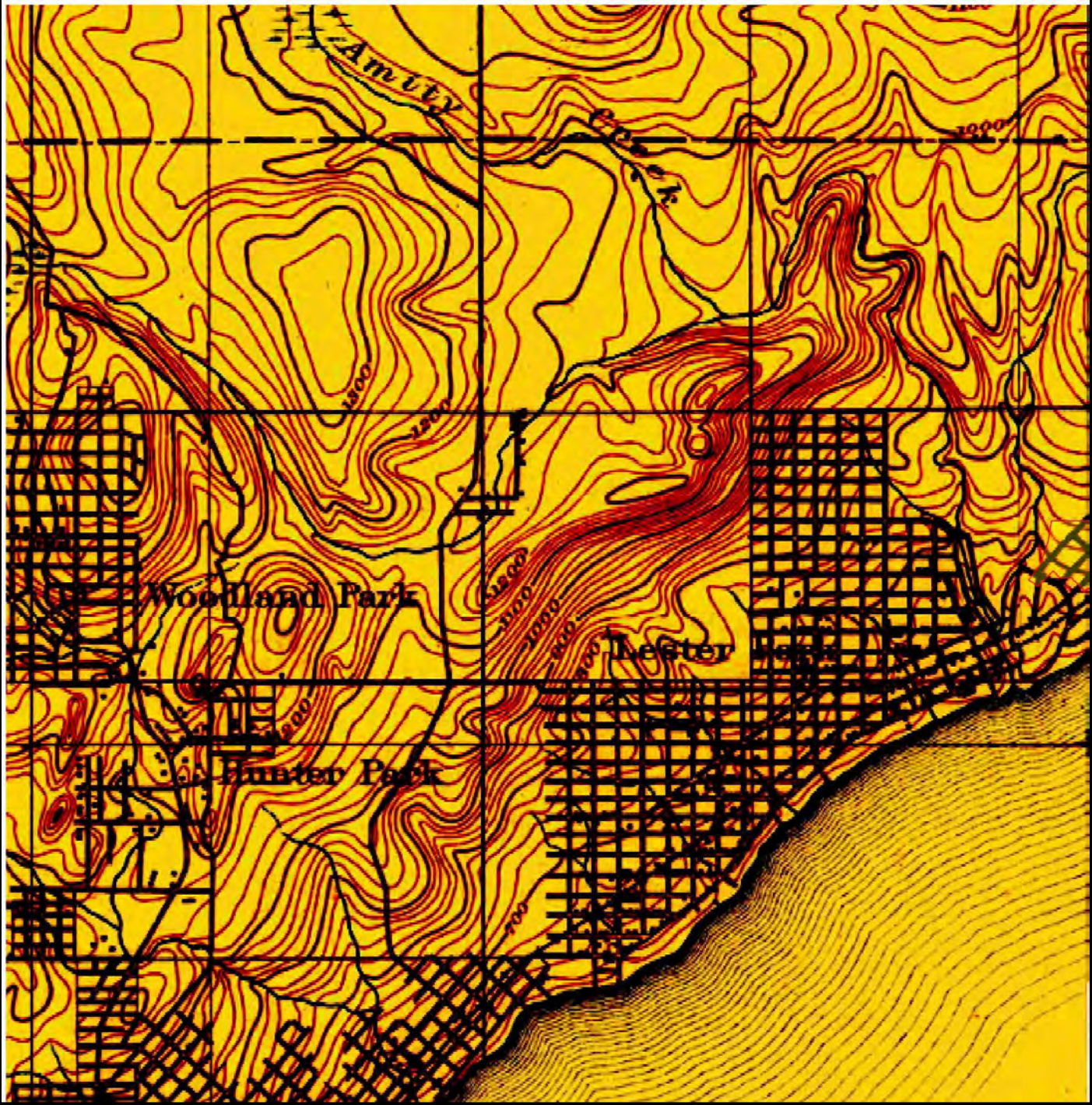
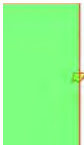


SUBJECT NAME: Lester Park 4th Division  
ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
LAT/LONG: 46.843605 / -92.000675

PREPARED FOR: Bay West Inc  
ORDER #: 71089  
REPORT DATE: 04/26/2022

SUBJECT QUAD:

MAP NAME:	Duluth	MAP YEAR:	1895	REVISION YEAR:	N/R
SCALE:	1 : 62500	Part	1		





SUBJECT NAME: Lester Park 4th Division  
ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
LAT/LONG: 46.843605 / -92.000675

PREPARED FOR: Bay West Inc  
ORDER #: 71089  
REPORT DATE: 04/26/2022

SUBJECT QUAD:

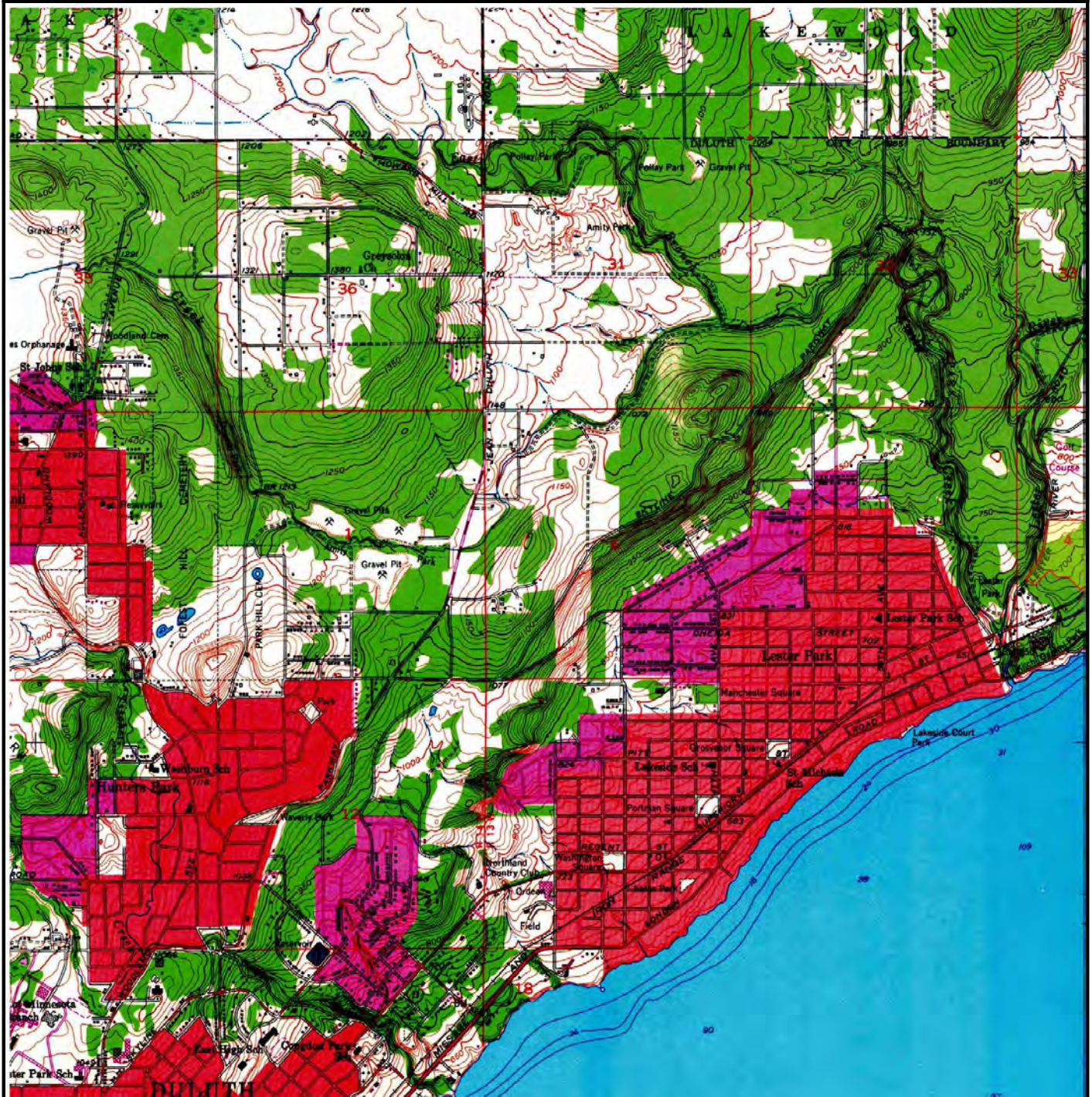
MAP NAME: Duluth

MAP YEAR: 1953

REVISION YEAR: 1969

SCALE: 1 : 24000

Part 1





SUBJECT NAME: Lester Park 4th Division  
ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
LAT/LONG: 46.843605 / -92.000675

PREPARED FOR: Bay West Inc  
ORDER #: 71089  
REPORT DATE: 04/26/2022

SUBJECT QUAD:

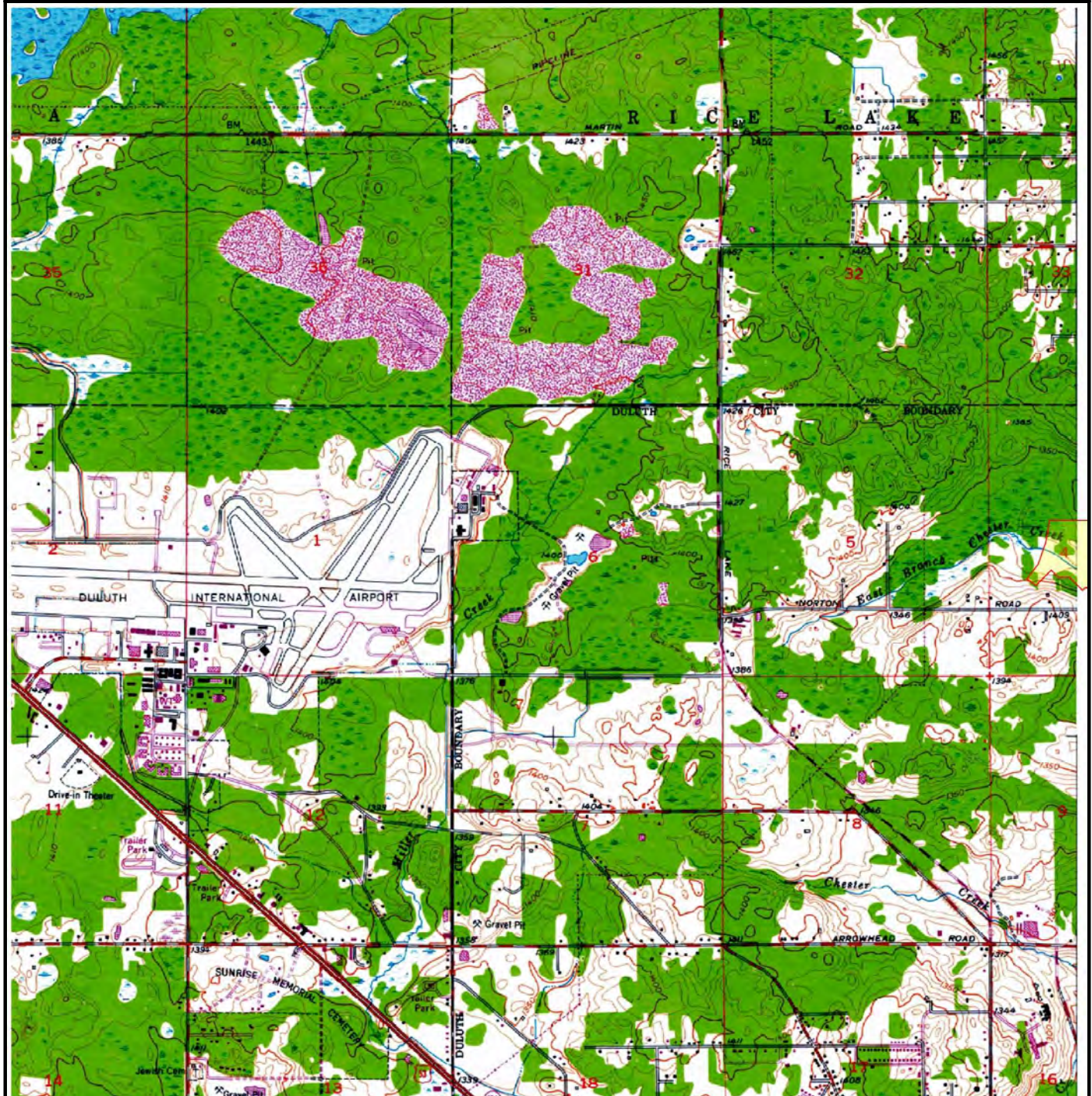
MAP NAME: Duluth

MAP YEAR: 1953

REVISION YEAR: 1975

SCALE: 1 : 24000

Part 1





SUBJECT NAME: Lester Park 4th Division  
ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
LAT/LONG: 46.843605 / -92.000675

PREPARED FOR: Bay West Inc  
ORDER #: 71089  
REPORT DATE: 04/26/2022

SUBJECT QUAD:

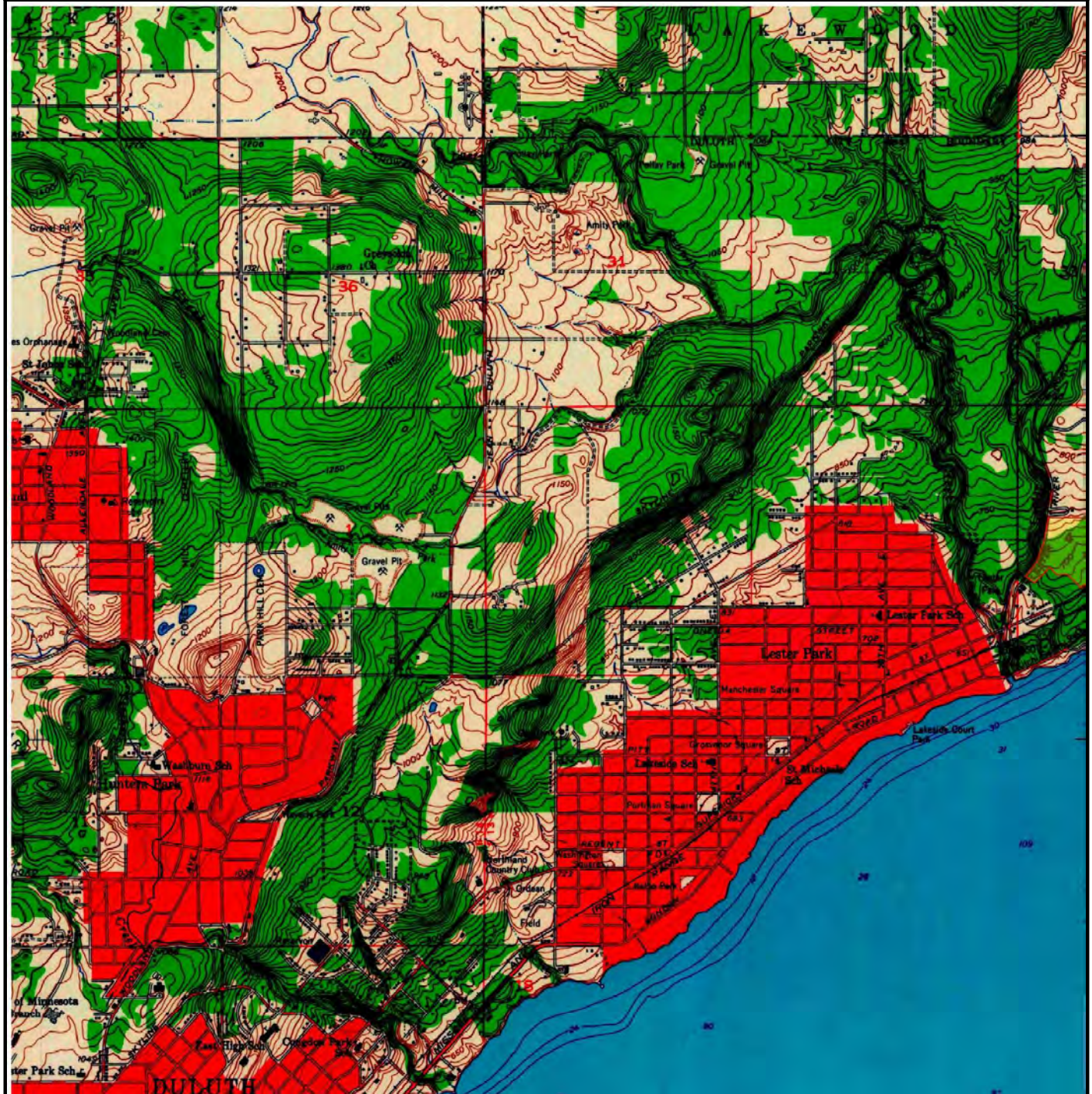
MAP NAME: Duluth

MAP YEAR: 1953

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 1





SUBJECT NAME: Lester Park 4th Division  
 ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
 LAT/LONG: 46.843605 / -92.000675

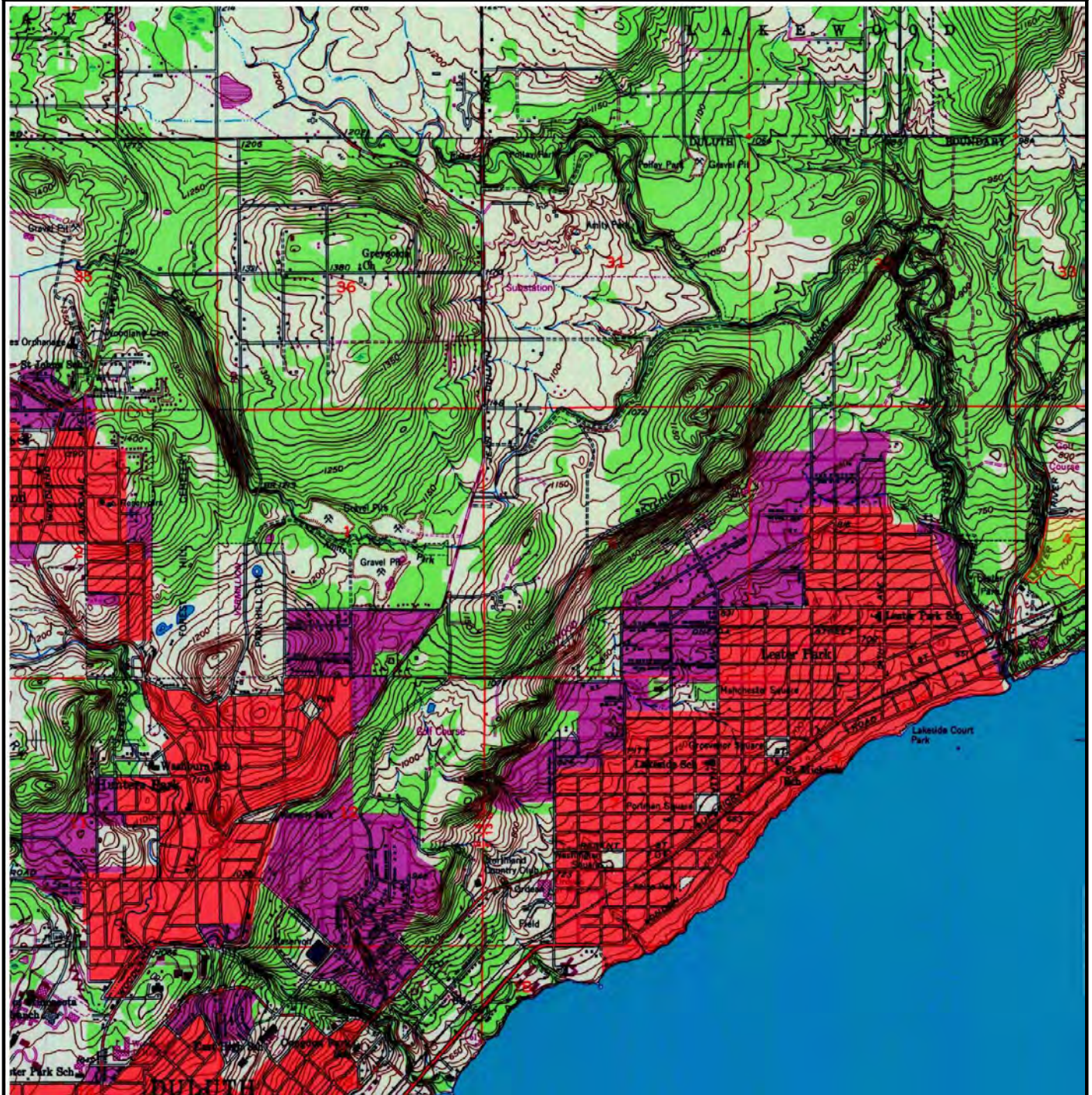
PREPARED FOR: Bay West Inc  
 ORDER #: 71089  
 REPORT DATE: 04/26/2022

SUBJECT QUAD:

MAP NAME: Duluth  
 SCALE: 1 : 24000

MAP YEAR: 1953  
 Part 1

REVISION YEAR: 1993





SUBJECT NAME: Lester Park 4th Division  
ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
LAT/LONG: 46.843605 / -92.000675

PREPARED FOR: Bay West Inc  
ORDER #: 71089  
REPORT DATE: 04/26/2022

SUBJECT QUAD:

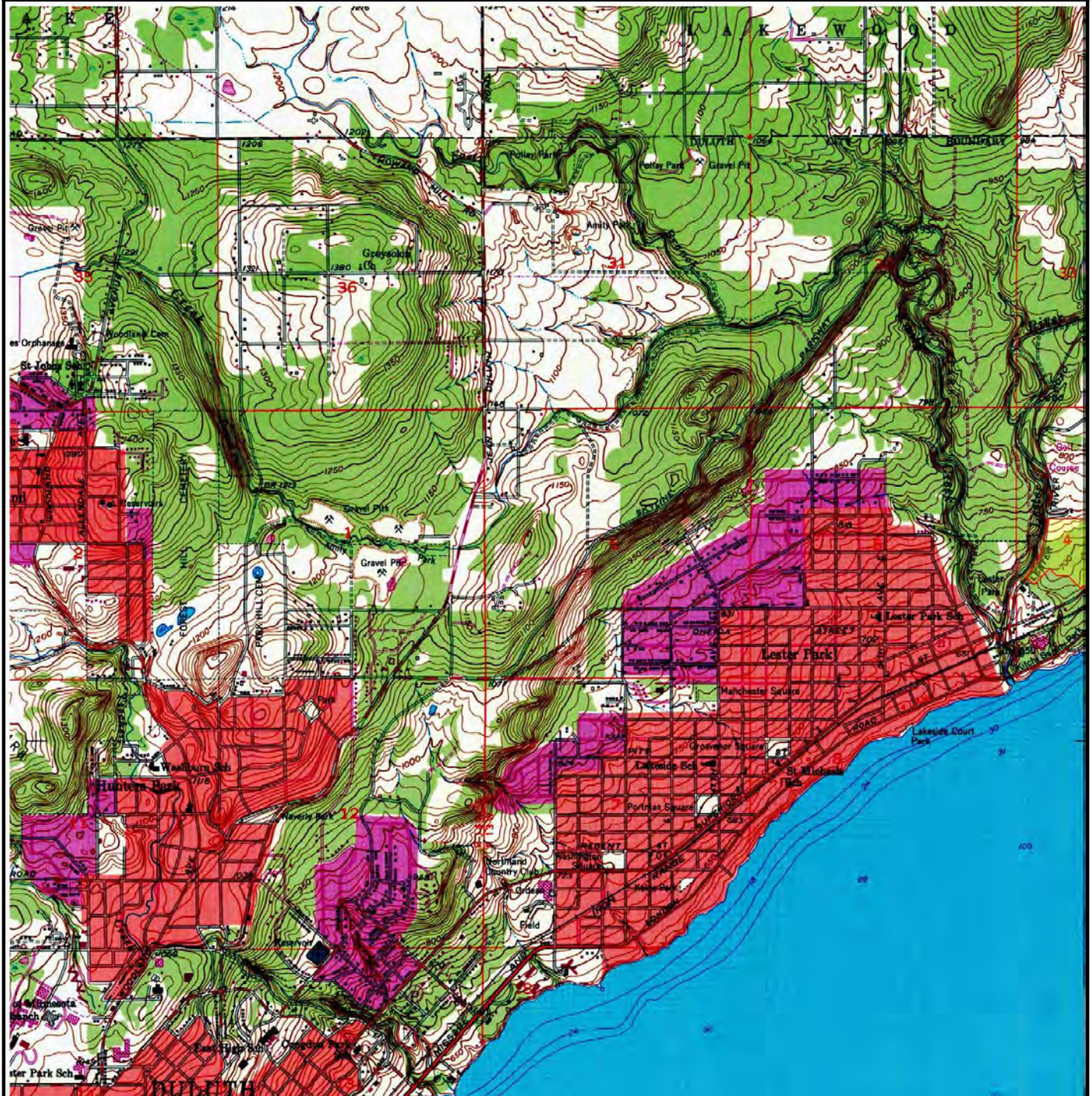
MAP NAME: Duluth

MAP YEAR: 1953

REVISION YEAR: 1975

SCALE: 1 : 24000

Part 1





SUBJECT NAME: Lester Park 4th Division  
 ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
 LAT/LONG: 46.843605 / -92.000675

PREPARED FOR: Bay West Inc  
 ORDER #: 71089  
 REPORT DATE: 04/26/2022

SUBJECT QUAD:

MAP NAME: Lakewood

MAP YEAR: 1953

REVISION YEAR: 1969

SCALE: 1 : 24000

Part 1





SUBJECT NAME: Lester Park 4th Division  
ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
LAT/LONG: 46.843605 / -92.000675

PREPARED FOR: Bay West Inc  
ORDER #: 71089  
REPORT DATE: 04/26/2022

SUBJECT QUAD:

MAP NAME: Lakewood

MAP YEAR: 1953

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 1





SUBJECT NAME: Lester Park 4th Division  
 ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
 LAT/LONG: 46.843605 / -92.000675

PREPARED FOR: Bay West Inc  
 ORDER #: 71089  
 REPORT DATE: 04/26/2022

SUBJECT QUAD:

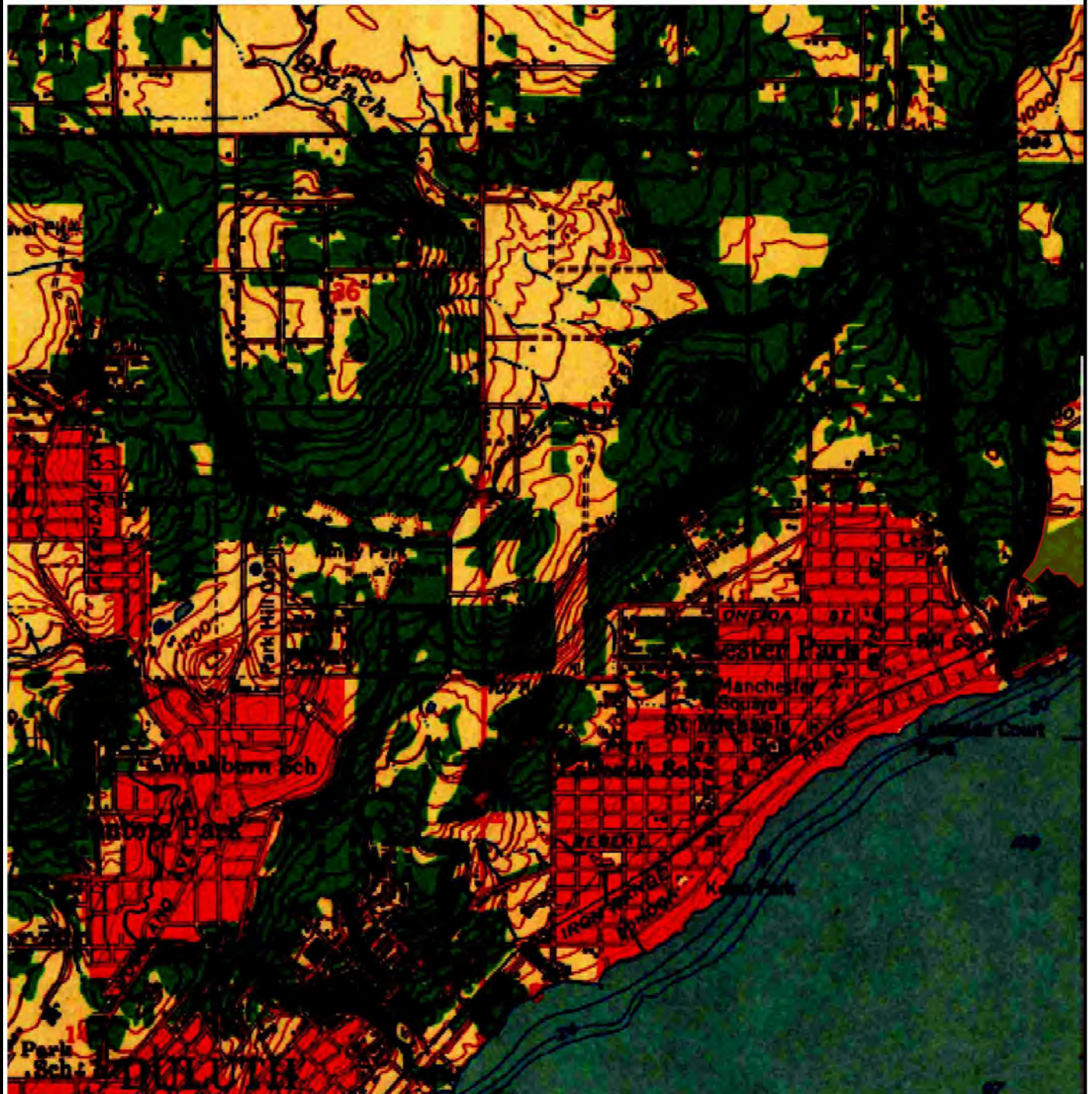
MAP NAME: Duluth

MAP YEAR: 1953

REVISION YEAR: N/R

SCALE: 1 : 62500

Part 1





SUBJECT NAME: Lester Park 4th Division  
 ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
 LAT/LONG: 46.843605 / -92.000675

PREPARED FOR: Bay West Inc  
 ORDER #: 71089  
 REPORT DATE: 04/26/2022

SUBJECT QUAD:

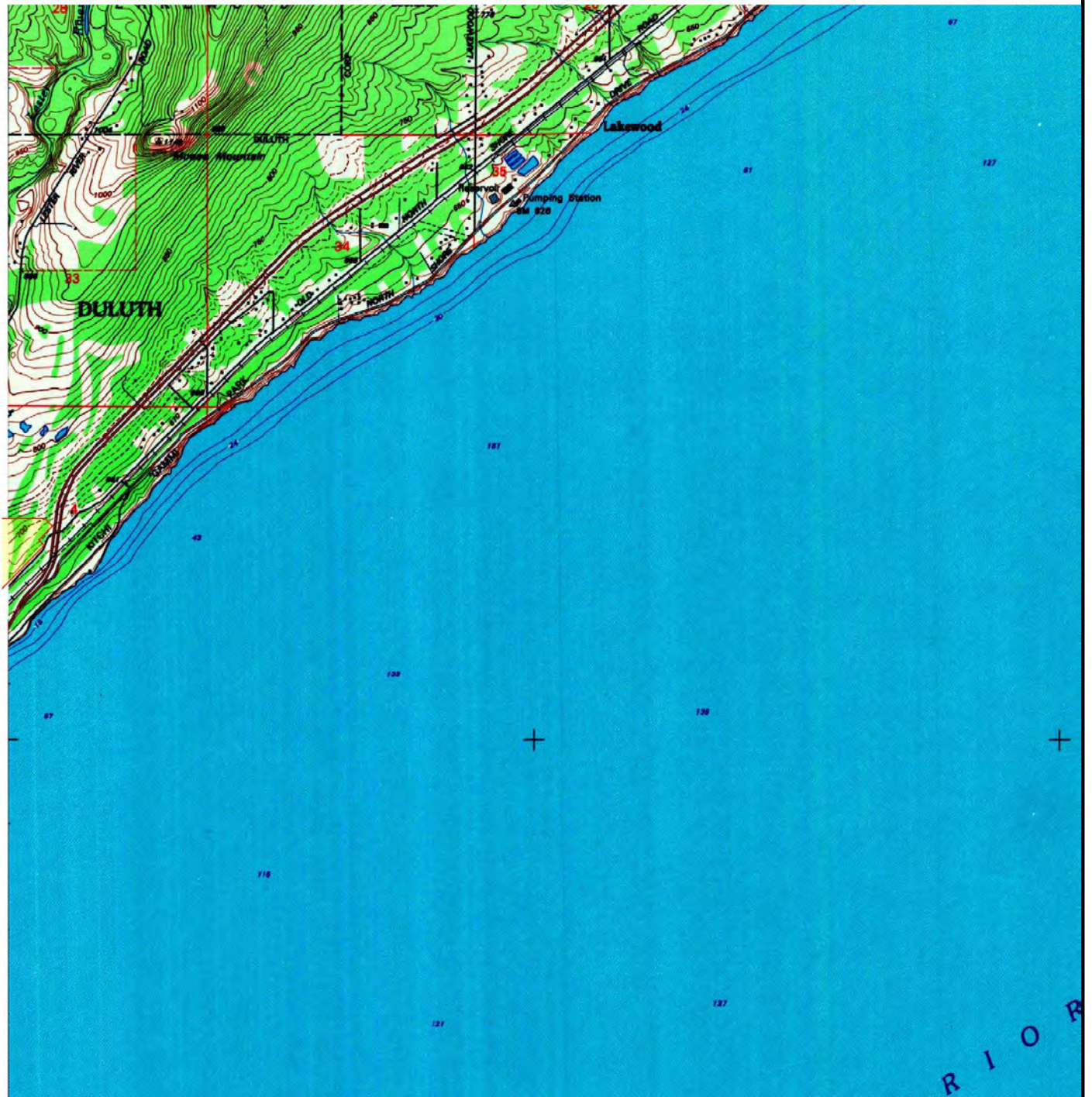
MAP NAME: Lakewood

MAP YEAR: 1992

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 1





SUBJECT NAME: Lester Park 4th Division  
 ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
 LAT/LONG: 46.843605 / -92.000675

PREPARED FOR: Bay West Inc  
 ORDER #: 71089  
 REPORT DATE: 04/26/2022

SUBJECT QUAD:

MAP NAME: Duluth

MAP YEAR: 2010

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 1





SUBJECT NAME: Lester Park 4th Division  
 ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
 LAT/LONG: 46.843605 / -92.000675

PREPARED FOR: Bay West Inc  
 ORDER #: 71089  
 REPORT DATE: 04/26/2022

SUBJECT QUAD:

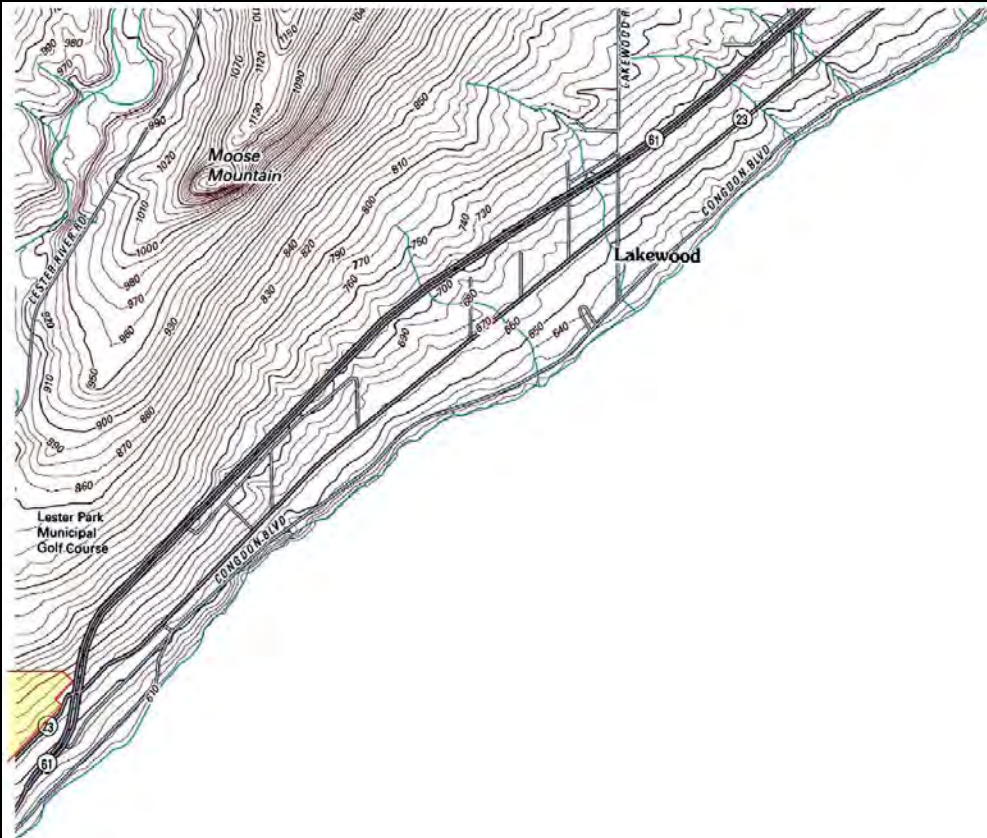
MAP NAME: Lakewood

MAP YEAR: 2010

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 1





SUBJECT NAME: Lester Park 4th Division  
 ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
 LAT/LONG: 46.843605 / -92.000675

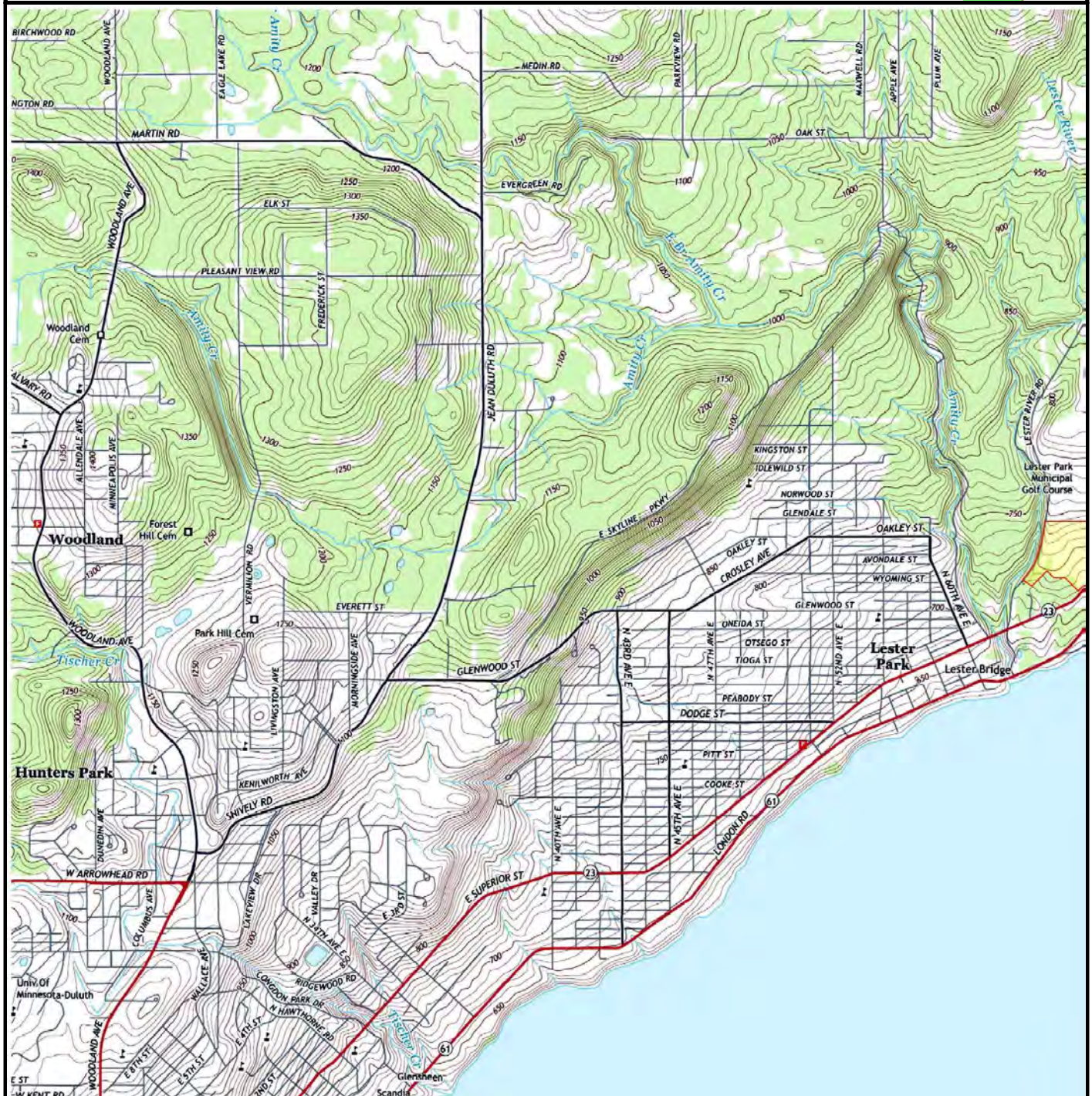
PREPARED FOR: Bay West Inc  
 ORDER #: 71089  
 REPORT DATE: 04/26/2022

SUBJECT QUAD:

MAP NAME: Duluth  
 SCALE: 1 : 24000

MAP YEAR: 2013  
 Part 1

REVISION YEAR: N/R





SUBJECT NAME: Lester Park 4th Division  
 ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
 LAT/LONG: 46.843605 / -92.000675

PREPARED FOR: Bay West Inc  
 ORDER #: 71089  
 REPORT DATE: 04/26/2022

SUBJECT QUAD:

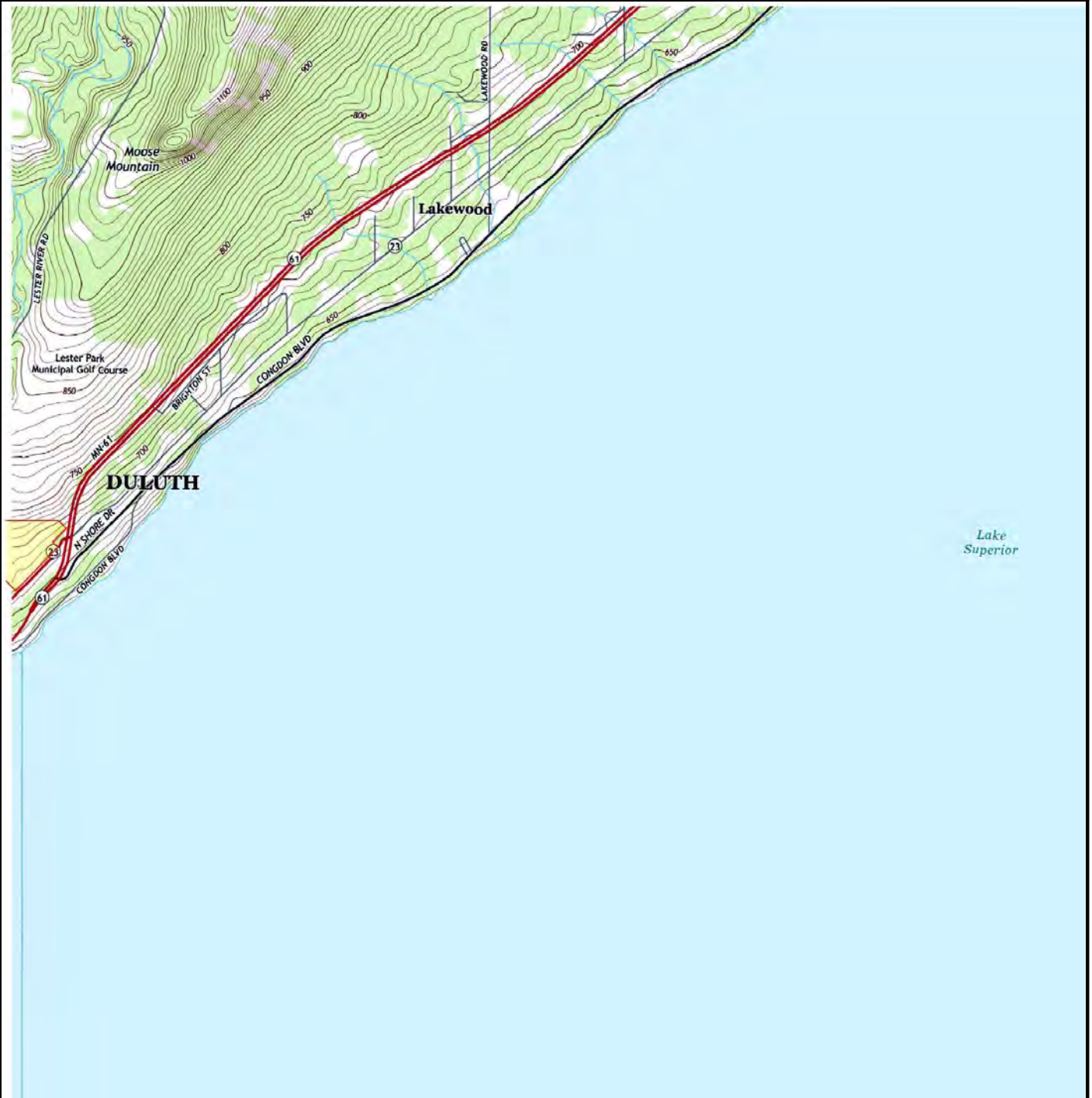
MAP NAME: Lakewood

MAP YEAR: 2013

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 1





SUBJECT NAME: Lester Park 4th Division  
 ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
 LAT/LONG: 46.843605 / -92.000675

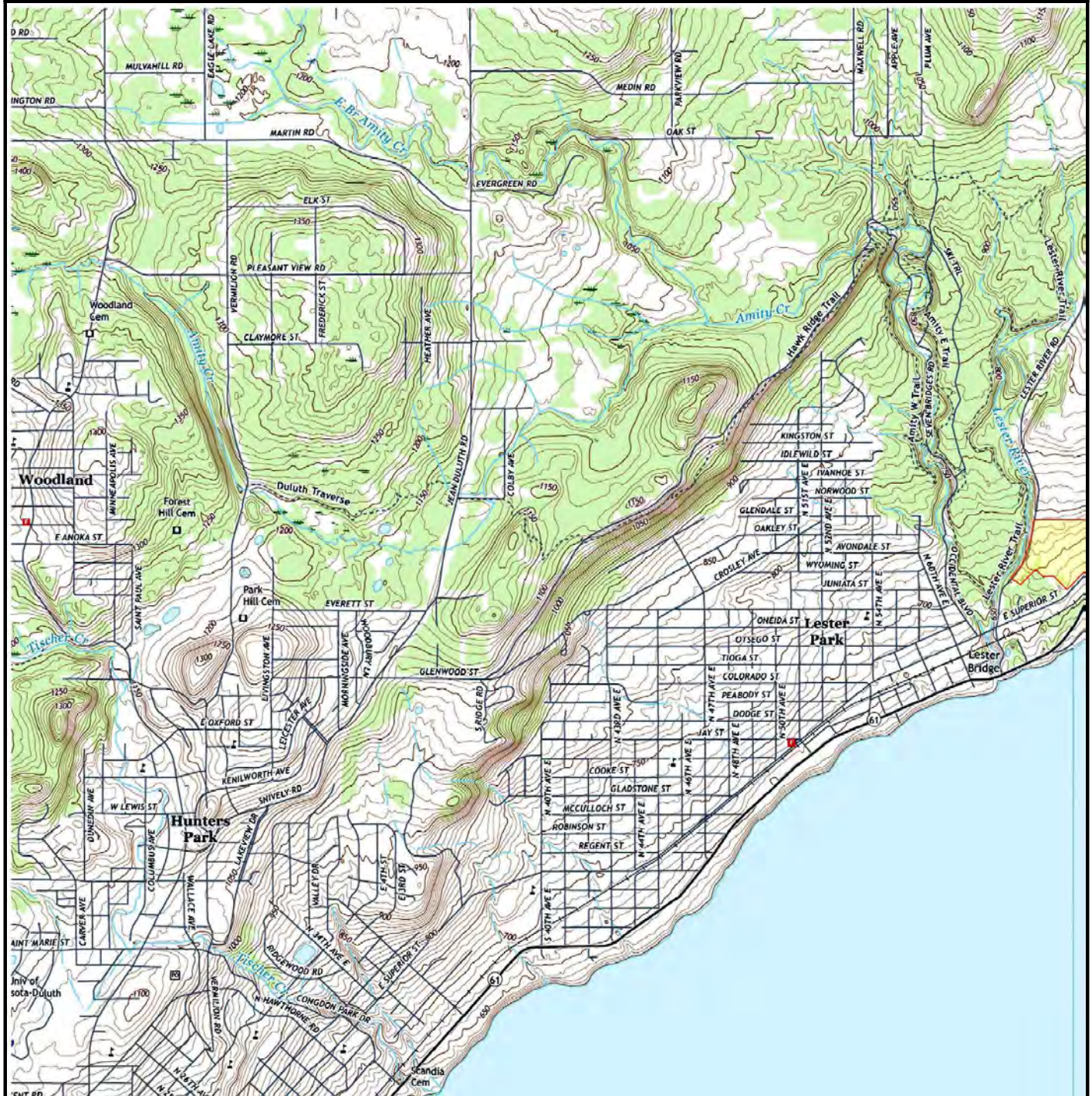
PREPARED FOR: Bay West Inc  
 ORDER #: 71089  
 REPORT DATE: 04/26/2022

SUBJECT QUAD:

MAP NAME: Duluth  
 SCALE: 1 : 24000

MAP YEAR: 2016  
 Part 1

REVISION YEAR: N/R





SUBJECT NAME: Lester Park 4th Division  
 ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
 LAT/LONG: 46.843605 / -92.000675

PREPARED FOR: Bay West Inc  
 ORDER #: 71089  
 REPORT DATE: 04/26/2022

SUBJECT QUAD:

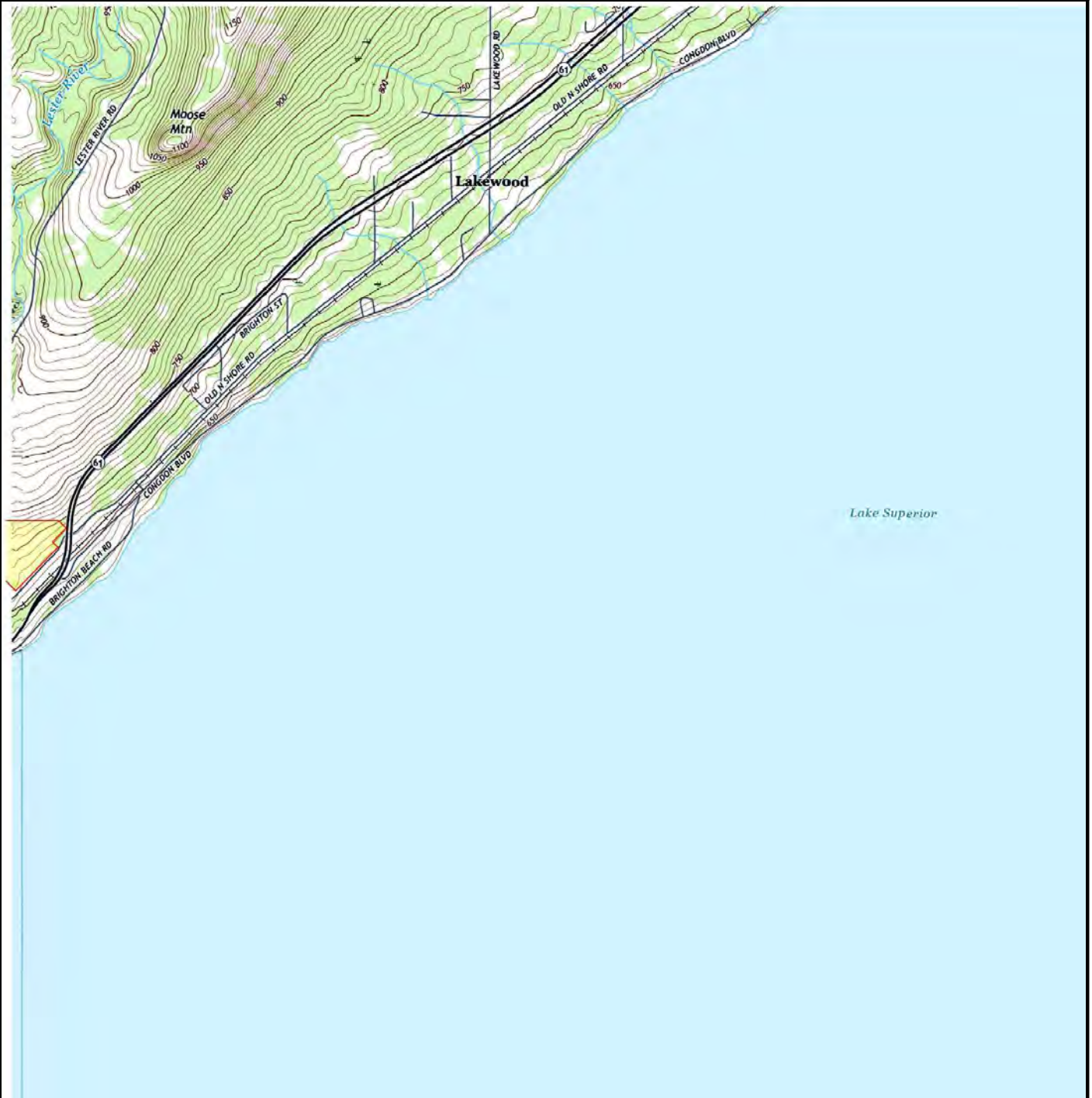
MAP NAME: Lakewood

MAP YEAR: 2016

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 1





SUBJECT NAME: Lester Park 4th Division  
 ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
 LAT/LONG: 46.843605 / -92.000675

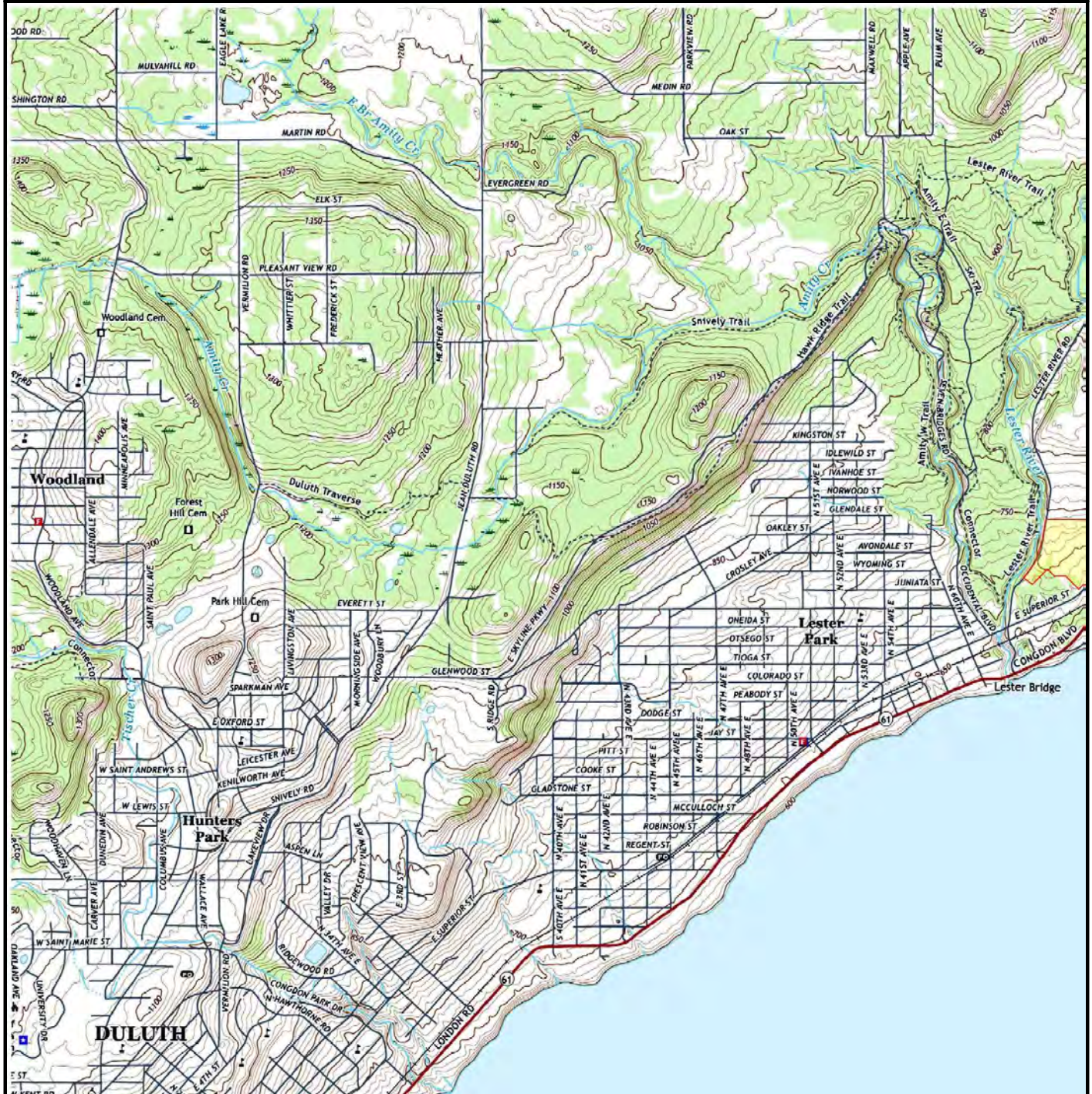
PREPARED FOR: Bay West Inc  
 ORDER #: 71089  
 REPORT DATE: 04/26/2022

SUBJECT QUAD:

MAP NAME: Duluth  
 SCALE: 1 : 24000

MAP YEAR: 2019  
 Part 1

REVISION YEAR: N/R





SUBJECT NAME: Lester Park 4th Division  
 ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
 LAT/LONG: 46.843605 / -92.000675

PREPARED FOR: Bay West Inc  
 ORDER #: 71089  
 REPORT DATE: 04/26/2022

SUBJECT QUAD:

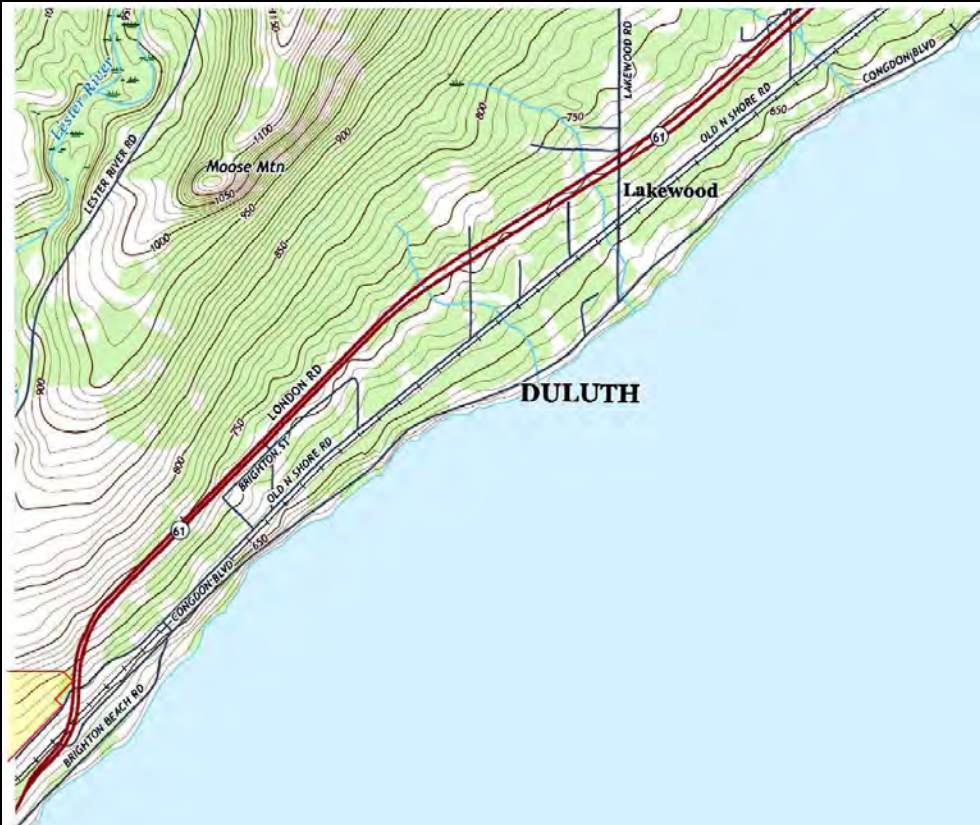
MAP NAME: Lakewood

MAP YEAR: 2019

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 1





SUBJECT NAME: Lester Park 4th Division  
ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
LAT/LONG: 46.843605 / -92.000675

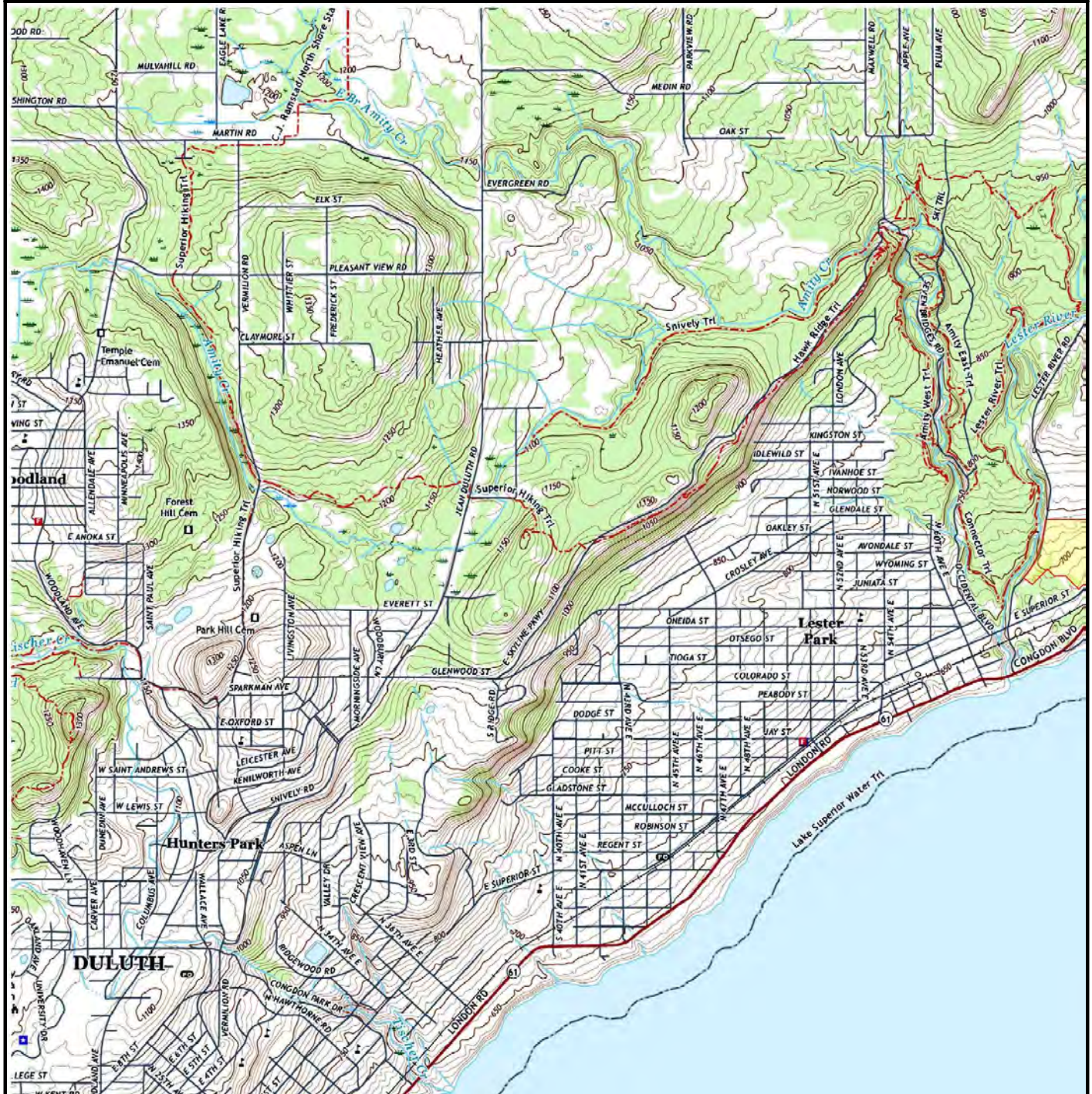
PREPARED FOR: Bay West Inc  
ORDER #: 71089  
REPORT DATE: 04/26/2022

SUBJECT QUAD:

MAP NAME: Duluth  
SCALE: 1 : 24000

MAP YEAR: 2022  
Part 1

REVISION YEAR: N/R





SUBJECT NAME: Lester Park 4th Division  
 ADDRESS: 6401 E Superior St, Duluth, MN, 55804  
 LAT/LONG: 46.843605 / -92.000675

PREPARED FOR: Bay West Inc  
 ORDER #: 71089  
 REPORT DATE: 04/26/2022

SUBJECT QUAD:

MAP NAME: Lakewood

MAP YEAR: 2022

REVISION YEAR: N/R

SCALE: 1 : 24000

Part 1





## **Appendix H**

### **Historical City Directories**





**ENVIROSITE**  
Corporation

# City Directory Report | 2022

Order Number: 71089

Report Generated: 05/03/2022

Lester Park 4th Division  
6401 E Superior Street  
Duluth, MN 55804

---

2 Corporate Drive Suite 450  
Shelton, CT 06484

Prepared for EnviroSite Corporation By:



Property Archives

Toll Free: 866-211-2028  
[www.envirositecorp.com](http://www.envirositecorp.com)



# City Directory Report

Envirosite's City Directory report is a screening tool designed to assist in evaluating a subject property and possible adjacent properties resulting from past activities. It includes a search and abstract of available city directories and cross reference directories at five year intervals or the closest available intervals. Public map sources are reviewed to determine possible adjoining properties to the front, back, left and right of the property.

**RESEARCH SUMMARY:**

The following research sources were consulted in the preparation of this report:

<b><u>SOURCE:</u></b>	<b><u>YEAR:</u></b>
Property Archives	2018, 2015, 2010, 2006, 2001, 1998
Duluth City Directory	1993, 1988, 1983, 1978, 1973, 1968, 1964, 1960, 1955, 1950, 1944, 1940, 1935, 1930, 1925, 1920, 1915, 1910, 1905, 1902

Property Archives is a proprietary and comprehensive database of over one billion commercial and residential records, business names and occupant records for every city and town in the United States. This database is owned by Property Archives, LLC.

This report was prepared by Property Archives, LLC for Envirosite Corporation



**SUBJECT PROPERTY:**

6401 E Superior Street , Duluth, MN 55804

**ADJOINING PROPERTIES:**

1860 Lester River Rd, Duluth, MN

6300-6500 E Superior St, Duluth, MN

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**2018**    6300-6500 E Superior St, Duluth, MN

BRUCE ALEXANDER	6303 E SUPERIOR ST
HEBL, LISA PA	6351 E SUPERIOR ST
BAUMBACH, CHRISTOPHER MD	6351 E SUPERIOR ST
MARK PETERSON	6353 E SUPERIOR ST
TIMOTHY WALSH	6353 E SUPERIOR ST

**2015**    6300-6500 E Superior St, Duluth, MN

BRUCE ALEXANDER	6303 E SUPERIOR ST
KARIN ALEXANDER	6303 E SUPERIOR ST
CLIFFORD ALEXANDER	6303 E SUPERIOR ST
CHRISTOPHER BAUMBACH	6351 E SUPERIOR ST
HUTCHINSON, DAVID A MD	6351 E SUPERIOR ST
BAUMBACH, CHRISTOPHER MD	6351 E SUPERIOR ST
KIRCHNER, ERIC MD	6351 E SUPERIOR ST
LESTER RIVER MEDICAL CLINIC	6351 E SUPERIOR ST
TIMOTHY WALSH	6353 E SUPERIOR ST
EDWARD STOKES	6353 E SUPERIOR ST
CAROL KOSBAB	6355 E SUPERIOR ST
FRANK INFELISE	6355 E SUPERIOR ST
JANET RINTALA	6355 E SUPERIOR ST

**2010**    6300-6500 E Superior St, Duluth, MN

CLIFFORD ALEXANDER	6303 E SUPERIOR ST
MARION HINZMANN	6304 E SUPERIOR ST
ERIC KIRCHNER	6351 E SUPERIOR ST
DAVID HUTCHINSON	6351 E SUPERIOR ST
DEB MITCHELL	6351 E SUPERIOR ST

**2006**    6300-6500 E Superior St, Duluth, MN

S Hinzmann	6302 E Superior St
Clifford D Alexander	6303 E Superior St
Fred A Hinzmann	6304 E Superior St

**2001**    6300-6500 E Superior St, Duluth, MN

S Hinzmann	6302 E Superior St
Clifford D Alexander	6303 E Superior St

**1998**    6300-6500 E Superior St, Duluth, MN

S Hinzmann	6302 E Superior St
Clifford D Alexander	6303 E Superior St
Fred A Hinzmann	6304 E Superior St



6245 Pawielski Roxane L SI © 525-6163

6302\*Hinzmann Stacie J © 525-1265

6303 Alexander Clifford D & Karin A 3E+ ©  
525-4863

6304 Hinzmann Fredk A & Marion J EH" ©  
525 3527

• ROHWEDER MEMORIAL HWY  
INTERSECTS

6809 STATE OF MN (STGE)

**IMAGE:**

1 of 1

**SOURCE:**

Duluth City Directory

**STREET:**

6300-6500 E Superior St, Duluth, MN

**YEAR:**

1993

6245 Berglund Danl C © 525-2615

6302 Vacant

6303 Alexander Clifford D © 525-4863

6304 Hinzmann Fredk A © 525-3527

68TH AV INTERSECTS

6815 Vacant

**IMAGE:**

1 of 1

**SOURCE:**

Duluth City Directory

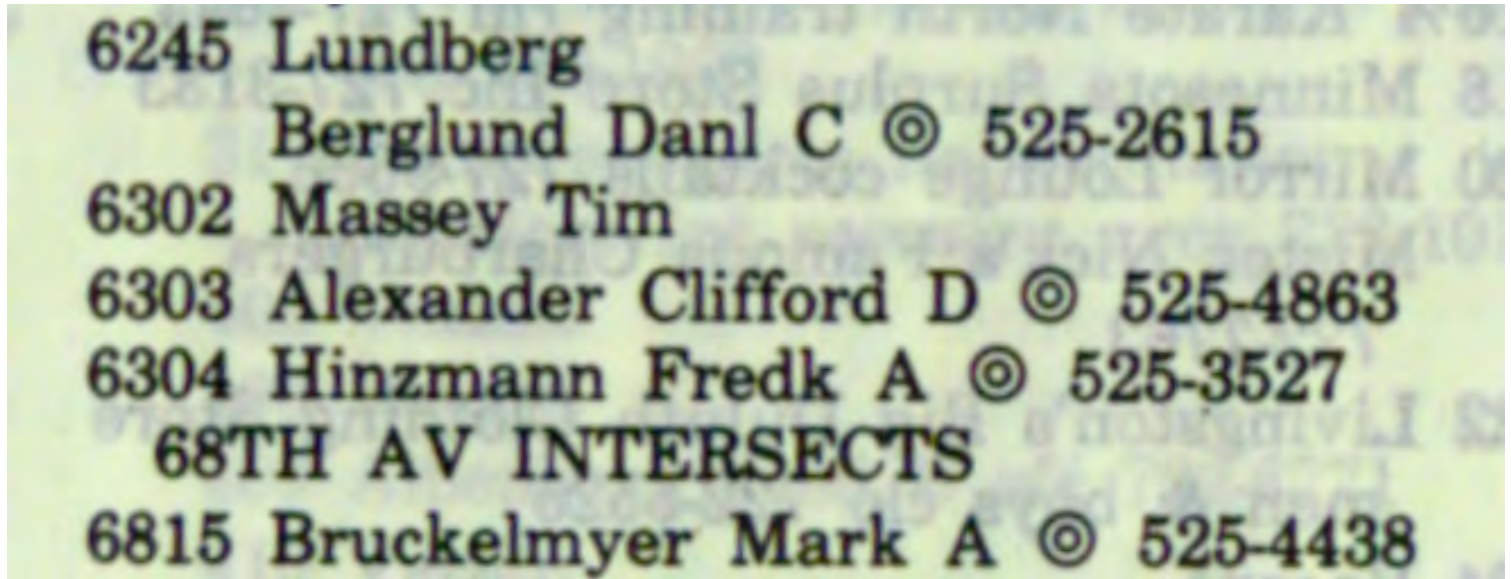
**STREET:**

6300-6500 E Superior St, Duluth, MN

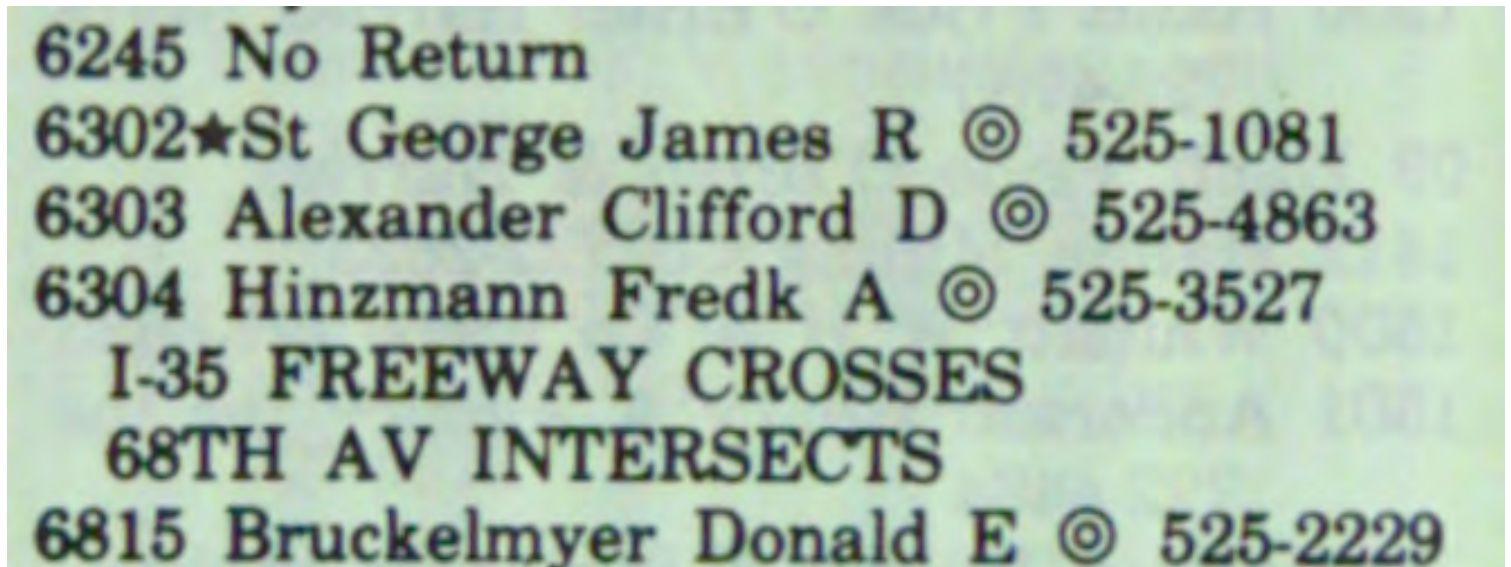
**YEAR:**

1988





<b><u>IMAGE:</u></b>	1 of 1
<b><u>SOURCE:</u></b>	Duluth City Directory
<b><u>STREET:</u></b>	6300-6500 E Superior St, Duluth, MN
<b><u>YEAR:</u></b>	1983



<b><u>IMAGE:</u></b>	1 of 1
<b><u>SOURCE:</u></b>	Duluth City Directory
<b><u>STREET:</u></b>	6300-6500 E Superior St, Duluth, MN
<b><u>YEAR:</u></b>	1978



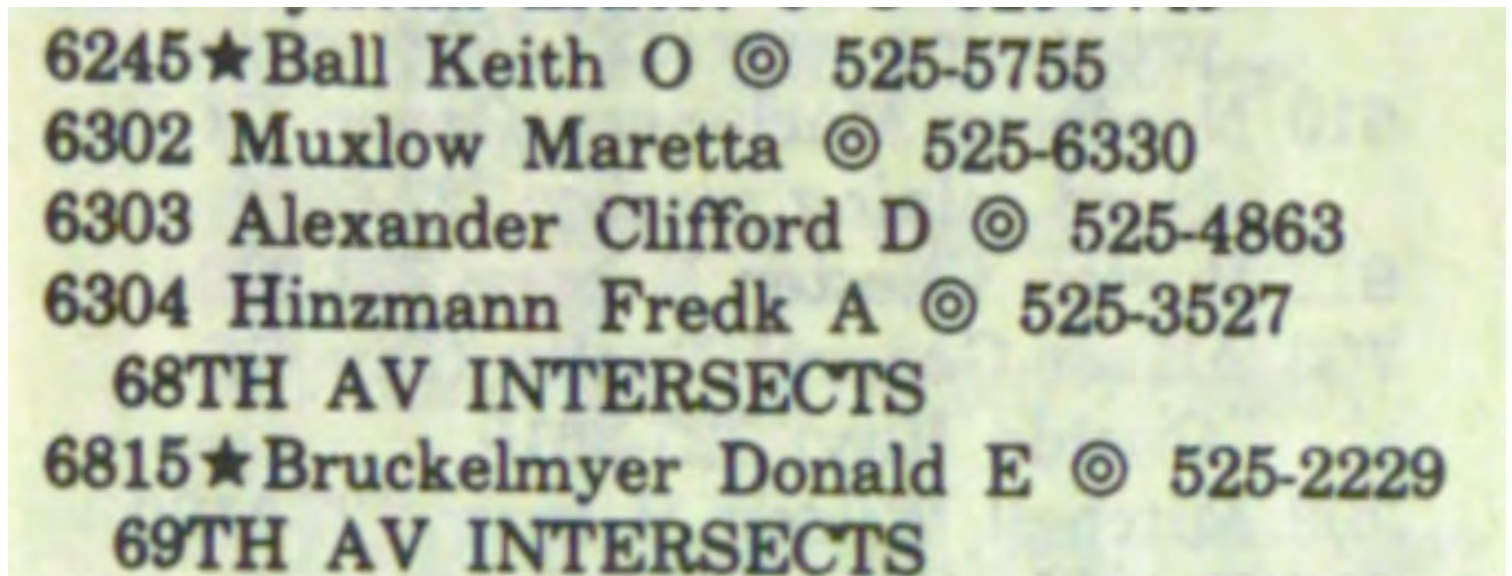


IMAGE: 1 of 1  
SOURCE: Duluth City Directory  
STREET: 6300-6500 E Superior St, Duluth, MN  
YEAR: 1973

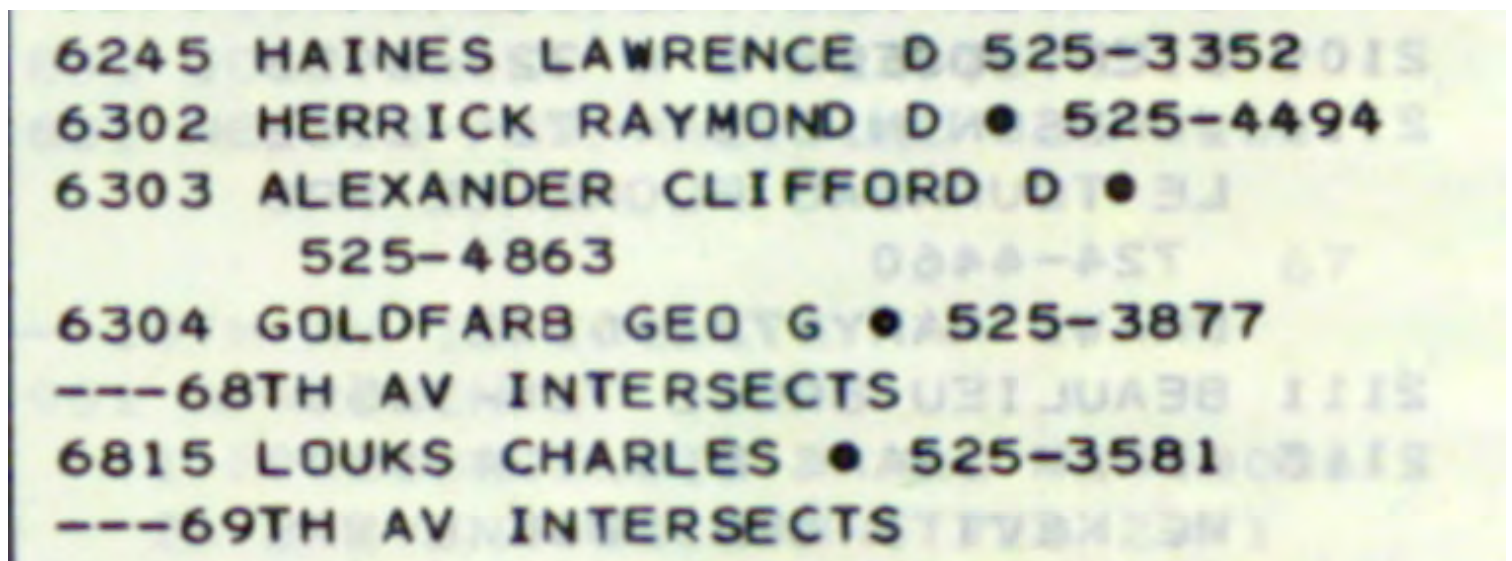
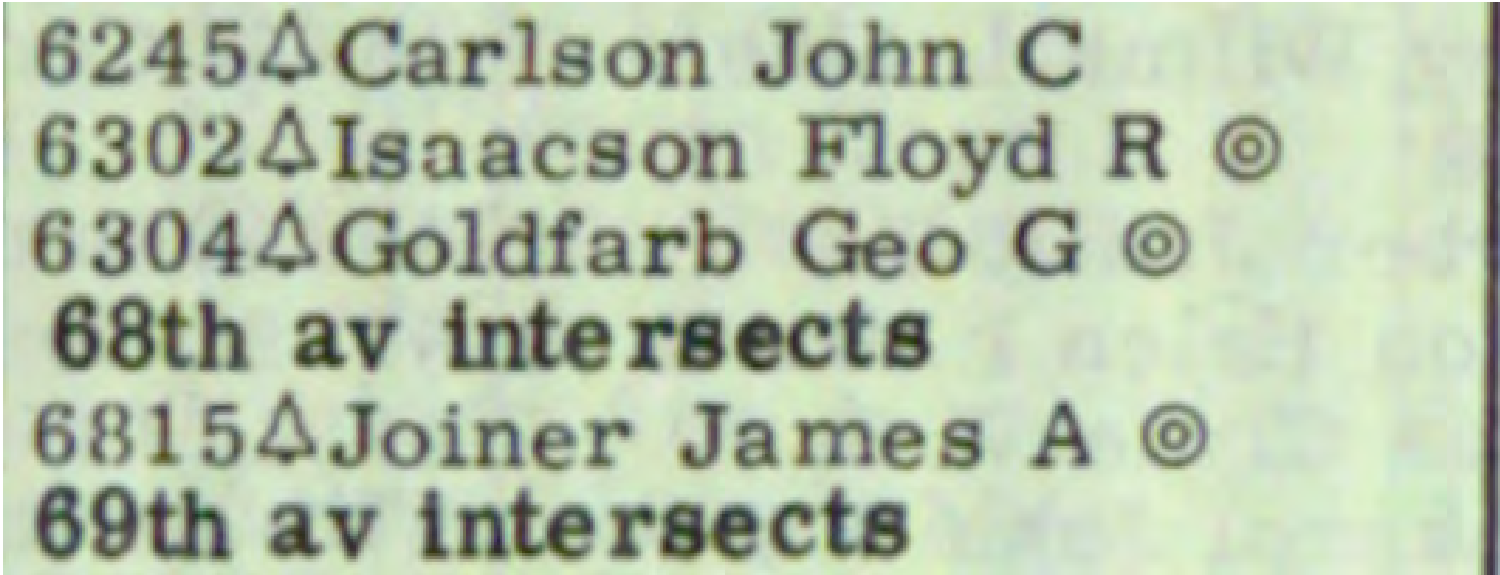
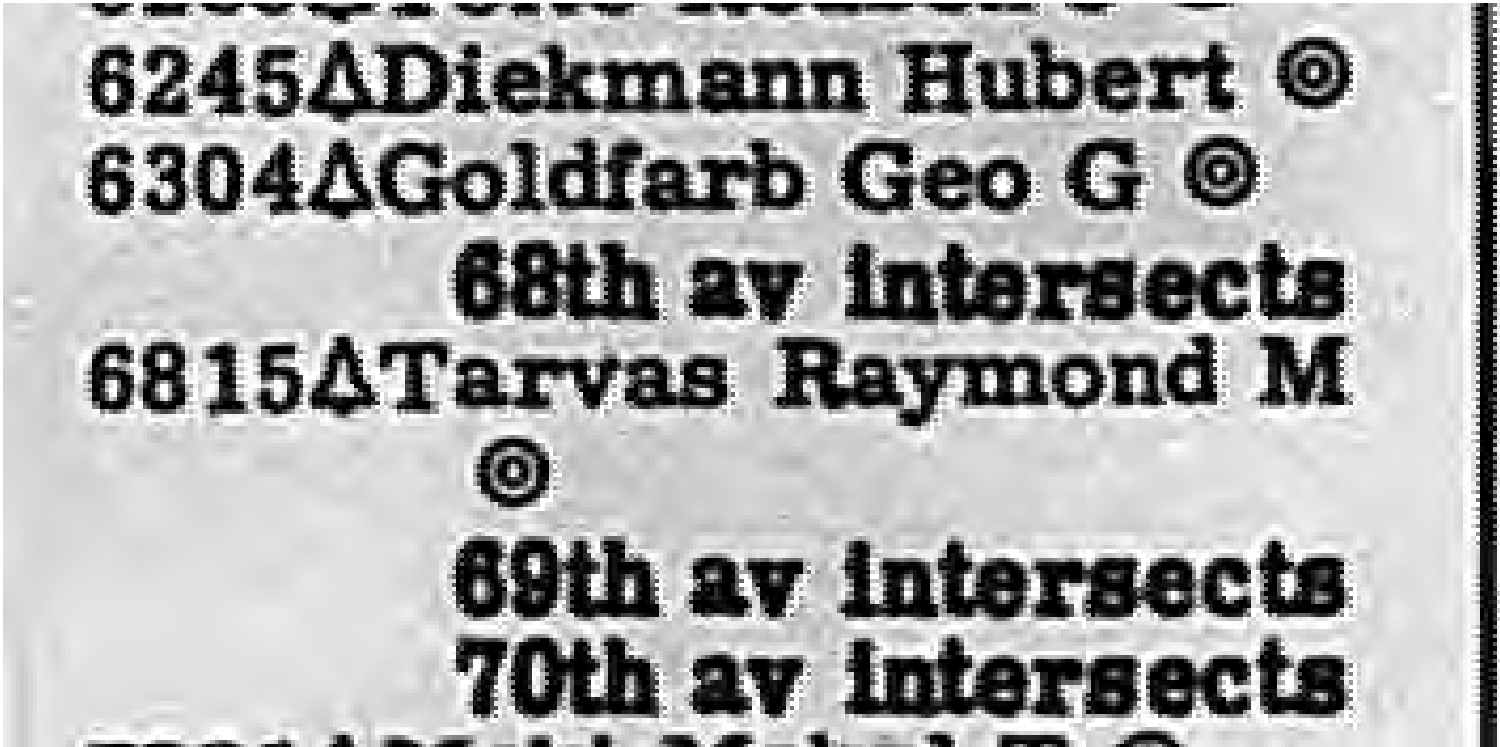


IMAGE: 1 of 1  
SOURCE: Duluth City Directory  
STREET: 6300-6500 E Superior St, Duluth, MN  
YEAR: 1968





**IMAGE:** 1 of 1  
**SOURCE:** Duluth City Directory  
**STREET:** 6300-6500 E Superior St, Duluth, MN  
**YEAR:** 1964



**IMAGE:** 1 of 1  
**SOURCE:** Duluth City Directory  
**STREET:** 6300-6500 E Superior St, Duluth, MN  
**YEAR:** 1960

**SOURCE:** Duluth City Directory  
**STREET:** 6300-6500 E Superior St, Duluth, MN



YEAR:

1955

INFO:

No Address Listings (6300-6500)

SOURCE:

Duluth City Directory

STREET:

6300-6500 E Superior St, Duluth, MN

YEAR:

1950

INFO:

No Address Listings (6300-6500)

SOURCE:

Duluth City Directory

STREET:

6300-6500 E Superior St, Duluth, MN

YEAR:

1944

INFO:

No Address Listings (6300-6500)

SOURCE:

Duluth City Directory

STREET:

6300-6500 E Superior St, Duluth, MN

YEAR:

1940

INFO:

No Address Listings (6300-6500)

SOURCE:

Duluth City Directory

STREET:

6300-6500 E Superior St, Duluth, MN

YEAR:

1935

INFO:

No Address Listings (6300-6500)

SOURCE:

Duluth City Directory

STREET:

6300-6500 E Superior St, Duluth, MN

YEAR:

1930

INFO:

No Address Listings (6300-6500)

SOURCE:

Duluth City Directory

STREET:

6300-6500 E Superior St, Duluth, MN

YEAR:

1925

INFO:

No Address Listings (6300-6500)

SOURCE:

Duluth City Directory

STREET:

6300-6500 E Superior St, Duluth, MN

YEAR:

1920

INFO:

No Address Listings (6300-6500)

SOURCE:

Duluth City Directory

STREET:

6300-6500 E Superior St, Duluth, MN

YEAR:

1915

INFO:

No Address Listings (6300-6500)

SOURCE:

Duluth City Directory



<b><u>SOURCE:</u></b>	Duluth City Directory
<b><u>STREET:</u></b>	6300-6500 E Superior St, Duluth, MN
<b><u>YEAR:</u></b>	1905
<b><u>INFO:</u></b>	No Address Listings (6300-6500)

<b><u>SOURCE:</u></b>	Duluth City Directory
<b><u>STREET:</u></b>	6300-6500 E Superior St, Duluth, MN
<b><u>YEAR:</u></b>	1902
<b><u>INFO:</u></b>	No Address Listings (6300-6500)



**2018: Lester River Rd, Duluth, MN**

MENS 18 HOLE GOLF	1860 LESTER RIVER RD
-------------------	----------------------

**2015: Lester River Rd, Duluth, MN**

MENS 18 HOLE GOLF	1860 LESTER RIVER RD
LESTER PARK GOLF COURSE	1860 LESTER RIVER RD

**2010: Lester River Rd, Duluth, MN**

Paul Schintz	1860 Lester River Rd
Lester Park Golf Course	1860 Lester River Rd
Mens 18 Hole Golf	1860 Lester River Rd

**2006: Lester River Rd, Duluth, MN**

Shelly Macdonald	1860 Lester River Rd
Paul Schintz	1860 LESTER RIVER RD
Jud Crist	1860 Lester River Rd
LESTER PARK GOLF COURSE	1860 LESTER RIVER RD
MENS 18 HOLE GOLF	1860 LESTER RIVER RD

**2001: Lester River Rd, Duluth, MN**

Lester Park Golf Club	1860 Lester River Rd
-----------------------	----------------------

**1998: Lester River Rd, Duluth, MN**

Shelly Macdonald	1860 Lester River Rd
Jud Crist	1860 Lester River Rd



LESTER RIVER RD -FROM JCTN OF  
61ST AV E AND E SUPERIOR ST  
NORTH

- ZIP CODE 55804
- E SUPERIOR ST INTERSECTS  
1821 LESTER PARK  
LESTER PARK NATURE TRAIL  
342 LAKEVIEW AMERICAN LEGION CLUB  
NO 342 clubs  
1860 LESTER PARK GOLF CLUB LUNCH  
ROOM 525 1400  
LESTER PARK MUNICIPAL GOLF  
COURSE 525 3018  
1860 Vacant  
1877 Johnson Dennis D & Joycelyn E SH"  
525 2402

IMAGE:

SOURCE:

STREET:

YEAR:

1 of 1

Duluth City Directory

Lester River Rd, Duluth, MN

1993



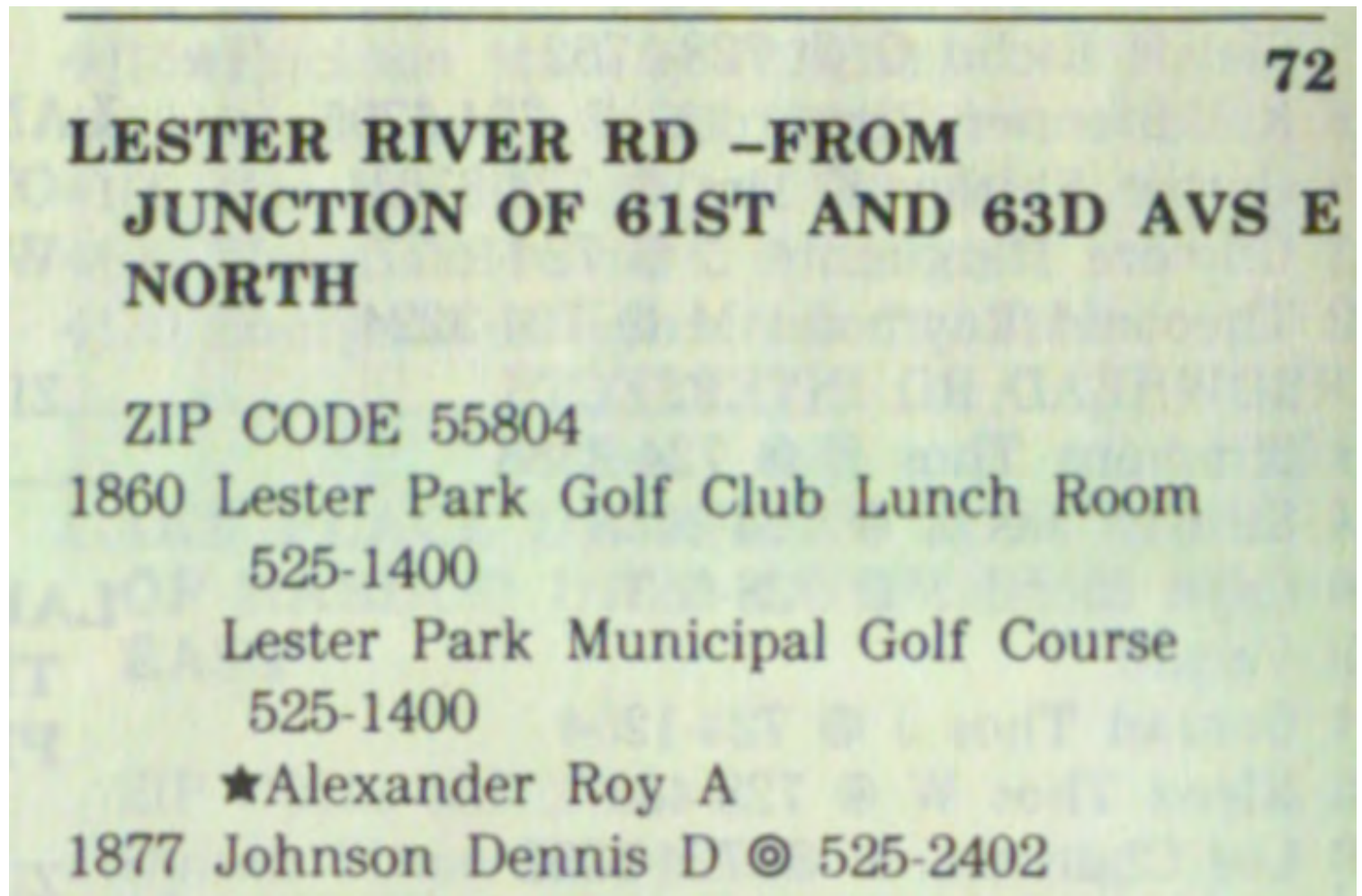


IMAGE:

1 of 1

SOURCE:

Duluth City Directory

STREET:

Lester River Rd, Duluth, MN

YEAR:

1988



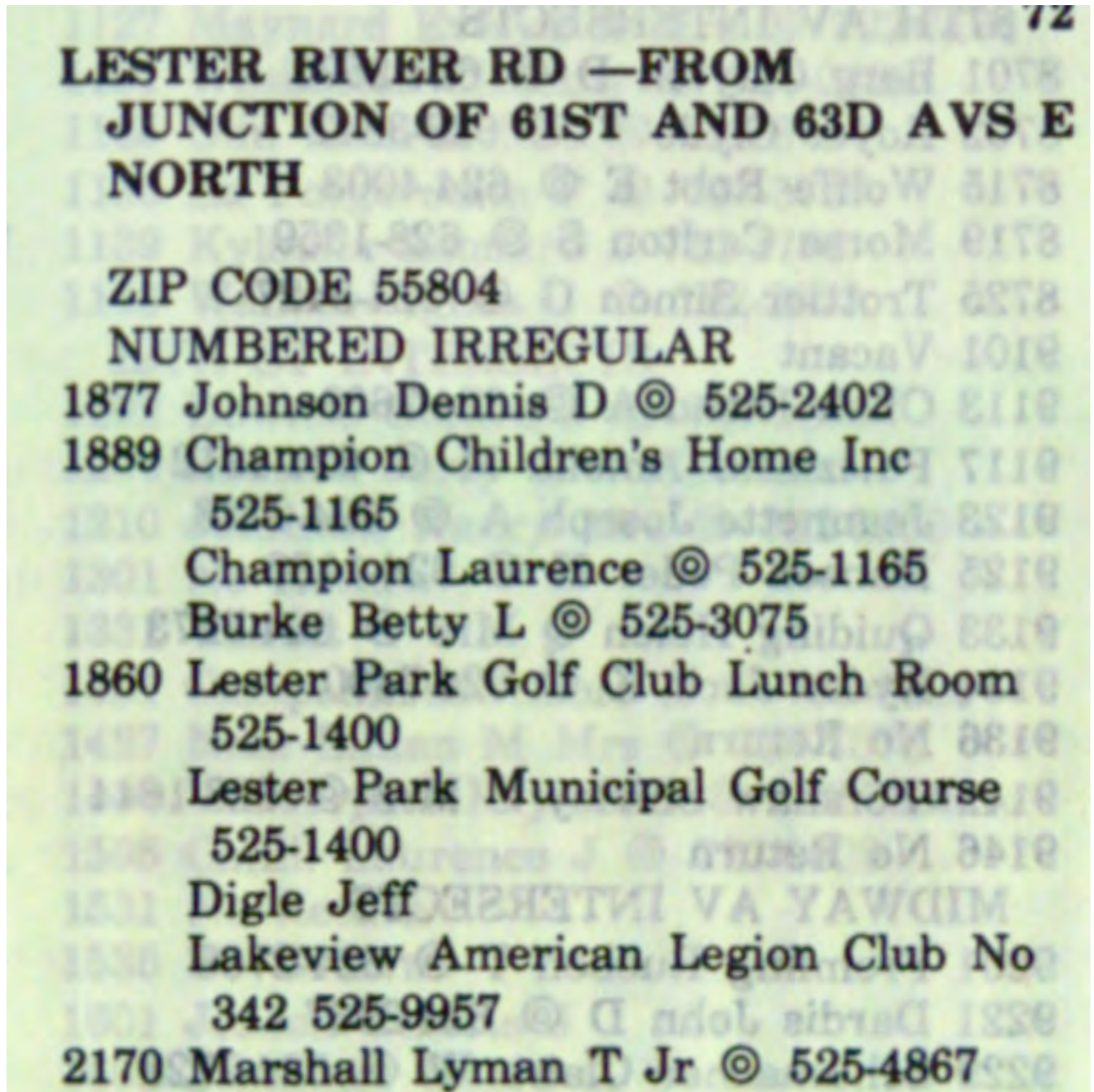


IMAGE:

1 of 1

SOURCE:

Duluth City Directory

STREET:

Lester River Rd, Duluth, MN

YEAR:

1983



72

**LESTER RIVER RD —FROM  
JUNCTION OF 61ST AND 63D AVS E  
NORTH**

ZIP CODE 55804

NUMBERED IRREGULAR

1877 Johnson Dennis D © 525-2402

1889 Champion Children's Home Inc  
525-1165

Champion Laurence © 525-1165

Burke Betty L © 525-3075

Lester Park Golf Club Lunch Room  
525-1400Lester Park Municipal Golf Course  
525-1400

Kirby Steven

Lakeview American Legion Club No  
342 525-9957

2170 Marshall Lyman T Jr © 525-4867

2179★Anderson Dave 525-3087

IMAGE:

1 of 1

SOURCE:

Duluth City Directory

STREET:

Lester River Rd, Duluth, MN

YEAR:

1978



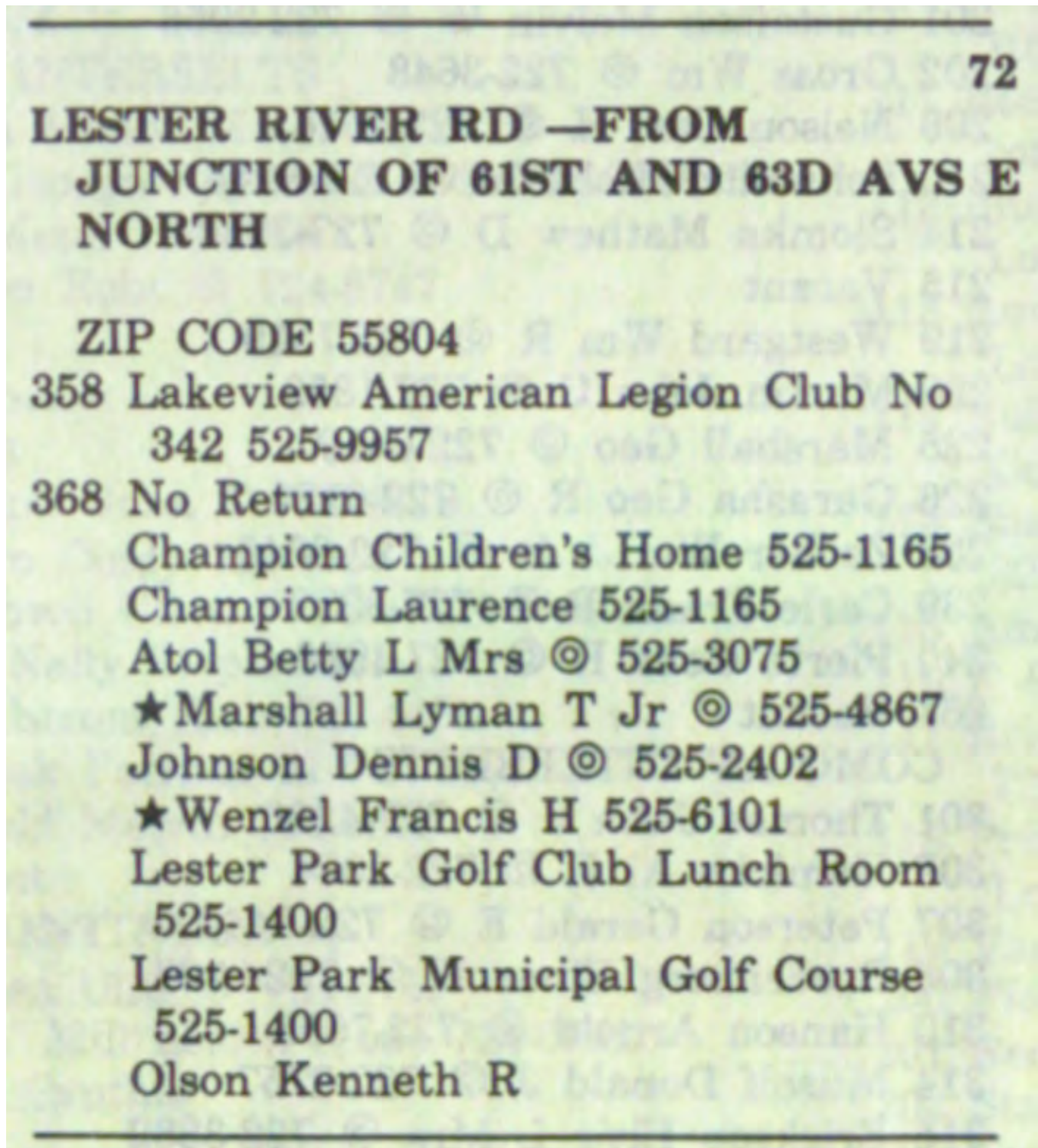


IMAGE:

1 of 1

SOURCE:

Duluth City Directory

STREET:

Lester River Rd, Duluth, MN

YEAR:

1973



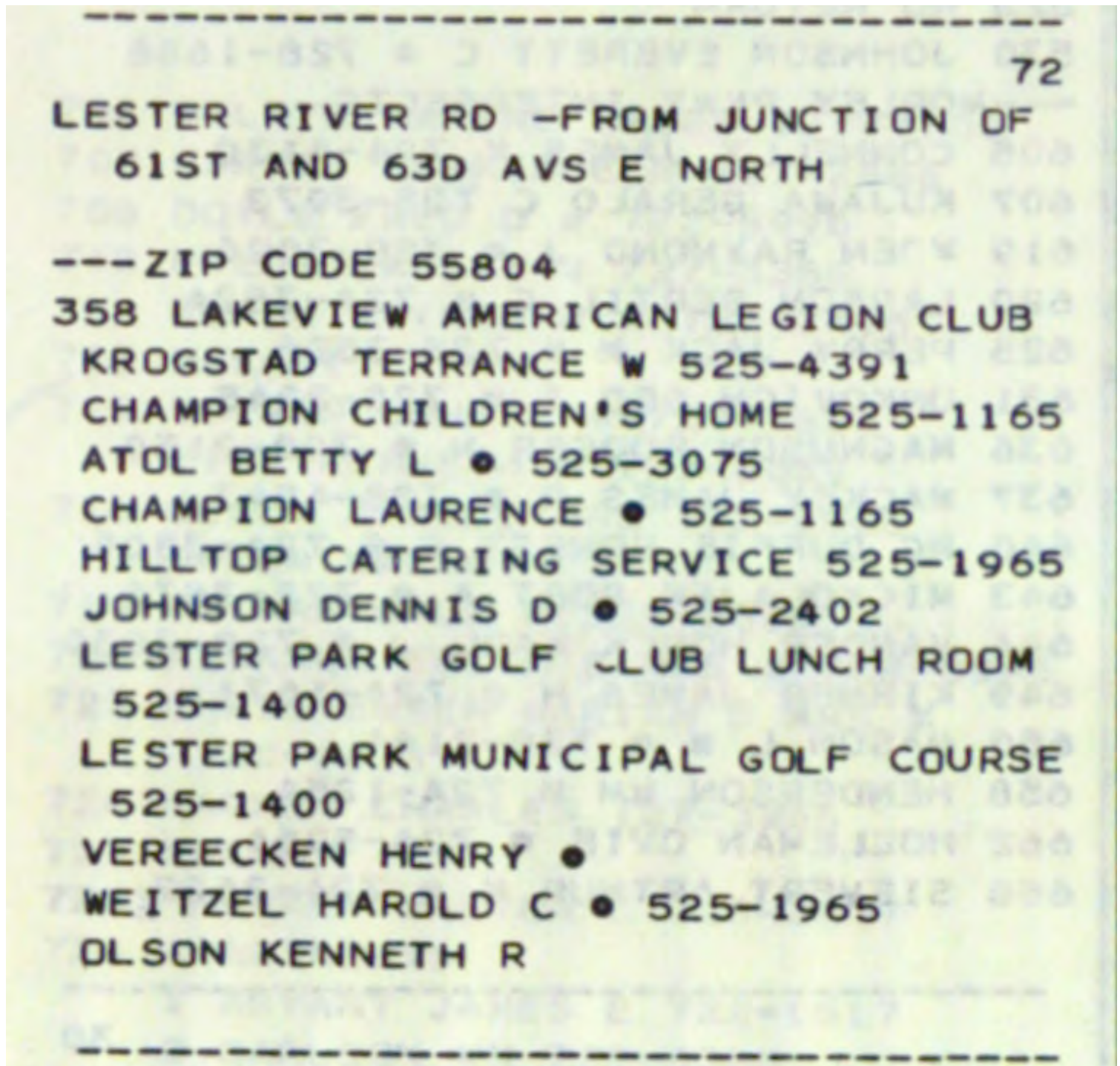


IMAGE:

1 of 1

SOURCE:

Duluth City Directory

STREET:

Lester River Rd, Duluth, MN

YEAR:

1968





IMAGE:

1 of 1

SOURCE:

Duluth City Directory

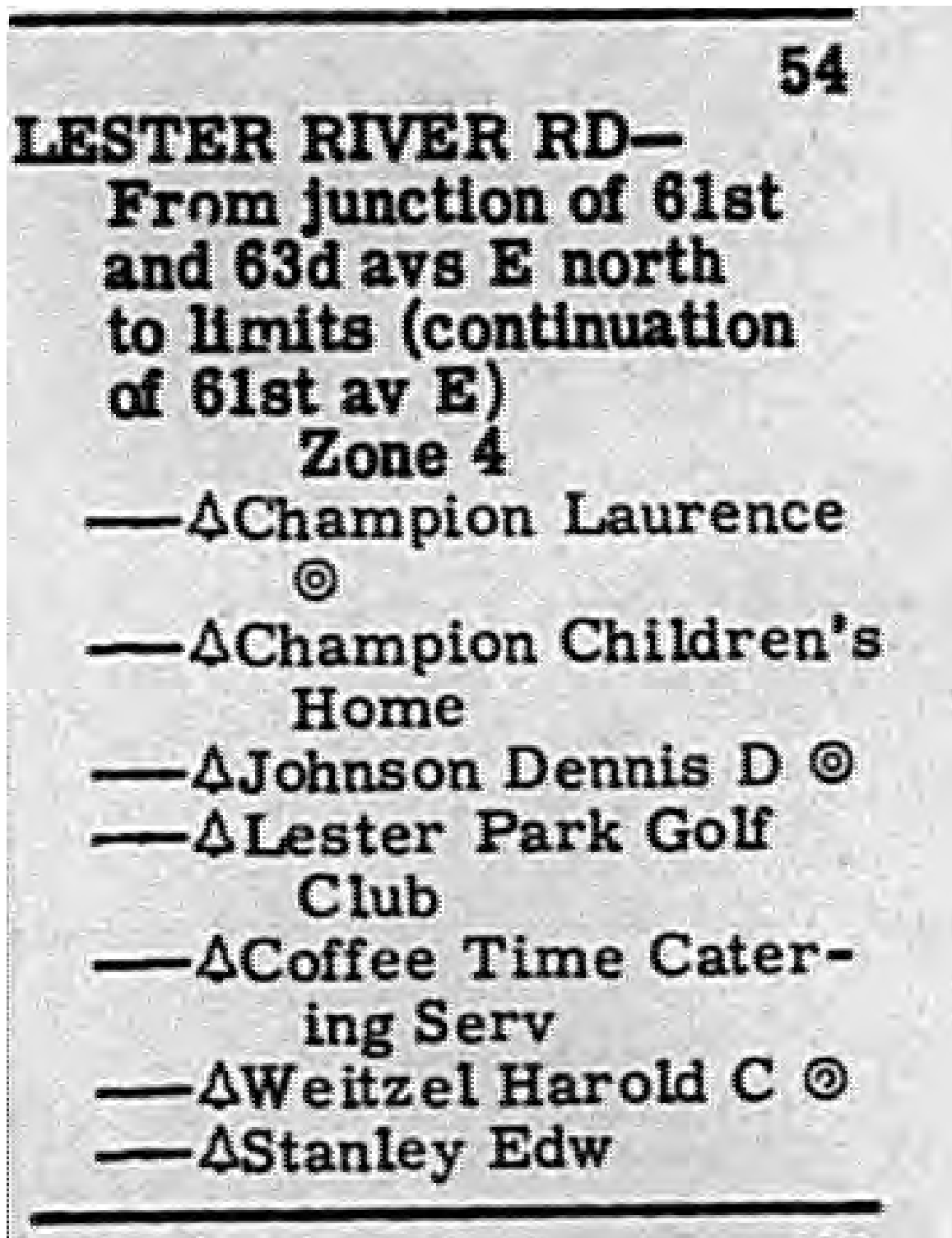
STREET:

Lester River Rd, Duluth, MN

YEAR:

1964



**IMAGE:**

1 of 1

**SOURCE:**

Duluth City Directory

**STREET:**

Lester River Rd, Duluth, MN

**YEAR:**

1960

**SOURCE:**

Duluth City Directory

**STREET:**

Lester River Rd, Duluth, MN

**YEAR:**

1955

**INFO:**

Street Not Listed



SOURCE:

STREET:

YEAR:

INFO:

Duluth City Directory  
Lester River Rd, Duluth, MN  
1950  
Street Not Listed

SOURCE:

STREET:

YEAR:

INFO:

Duluth City Directory  
Lester River Rd, Duluth, MN  
1944  
Street Not Listed

SOURCE:

STREET:

YEAR:

INFO:

Duluth City Directory  
Lester River Rd, Duluth, MN  
1940  
Street Not Listed

SOURCE:

STREET:

YEAR:

INFO:

Duluth City Directory  
Lester River Rd, Duluth, MN  
1935  
Street Not Listed

SOURCE:

STREET:

YEAR:

INFO:

Duluth City Directory  
Lester River Rd, Duluth, MN  
1930  
Street Not Listed

SOURCE:

STREET:

YEAR:

INFO:

Duluth City Directory  
Lester River Rd, Duluth, MN  
1925  
Street Not Listed

SOURCE:

STREET:

YEAR:

INFO:

Duluth City Directory  
Lester River Rd, Duluth, MN  
1920  
Street Not Listed

SOURCE:

STREET:

YEAR:

INFO:

Duluth City Directory  
Lester River Rd, Duluth, MN  
1915  
Street Not Listed

SOURCE:

STREET:

YEAR:

INFO:

Duluth City Directory  
Lester River Rd, Duluth, MN  
1910  
Street Not Listed



<b><u>SOURCE:</u></b>	Duluth City Directory
<b><u>STREET:</u></b>	Lester River Rd, Duluth, MN
<b><u>YEAR:</u></b>	1905
<b><u>INFO:</u></b>	Street Not Listed

<b><u>SOURCE:</u></b>	Duluth City Directory
<b><u>STREET:</u></b>	Lester River Rd, Duluth, MN
<b><u>YEAR:</u></b>	1902
<b><u>INFO:</u></b>	Street Not Listed



# **Appendix I**

## **Property Photographic Log**





**Photo 1: Property facing south  
from northwest**



**Photo 2: Empty drums on west  
side of Property**



**Photo 3: Household waste on  
west side of Property**



**Photo 4: Homeless encampment  
on west side of Property**





Photo 5: Property facing  
northeast from southwest



Photo 6: Fairway path along  
southern portion of Property



Photo 7: View of south-adjointing  
facility (3533 E Superior St)



Photo 8: View of south-adjointing  
facility (3531 E Superior St)





Photo 9: Fairway path along east side facing north



Photo 10: Stream crossing Property on east side facing east



Photo 11: View from east side of Property facing southeast



Photo 12: View from near northeast Property corner facing south





Photo 13: View from north-  
adjoining property (golf storage  
building) facing south



Photo 14: View of south-adjacent  
property facing east



Photo 11: View of west-adjacent  
property from west side of  
Property



Photo 12: View of eastern-  
adjacent property facing  
northeast



## Appendix J

### Resumes





## Rick Van Allen, PG

### PROJECT MANAGER/GEOLOGIST

#### OVERVIEW

Mr. Van Allen, PG, is a certified Professional Geologist with 24 years of project management, technical, compliance, and site assessment experience. He has a broad environmental background, is well versed in the Minnesota VIC and PBP Programs, guidance, and requirements, and has successfully managed numerous projects under both programs.

#### TECHNICAL EXPERIENCE

Mr. Van Allen has prepared asbestos and lead-based paint assessment bid specifications to ensure compliance with demolition and renovation regulatory requirements. Mr. Van Allen developed air monitoring plans and conducted real-time and time-weighted average air monitoring for asbestos, particulates, and metals in air to ensure compliance with OSHA and NIOSH S&H requirements and guidelines. He performed all aspects of planning, including facility inspection, product research, regulation review, and preparation of SPCC plans. He also conducted waste characterization sampling, hazard categorization, and completed waste profile documentation to obtain approval for disposal of waste at appropriate facilities.

#### PROJECT EXPERIENCE

Project Manager, Hobb's Barbeque, Minneapolis, MN, MPCA – Completed a Phase I ESA for the purchaser of this closed petroleum leak site. Historical use of the site as a scrap yard resulted in lead contamination in surface soil. Prepared a RAP that addressed the lead and petroleum contamination to facilitate redevelopment of the property. Wrote a DEED cleanup grant application resulting in an award of over \$100,000 in grant funding for the project.

Technical Lead/Field Team Leader, Multi-acre Property Site Assessment, City of St. Louis Park, MN – Developed a work plan, coordinated subcontractors, and served as field lead to assess a multi-acre property in St. Louis Park contaminated with lithium process waste. Also scoped and assisted with completion of a magnetometer survey on the same property to assess the site for buried containers and debris.

Project Manager, Former Pilgrim Cleaners, Brooklyn Park, MN, MPCA – Over several years Bay West completed investigation and source remediation activities at this long-time dry-cleaning facility. As the MPCA looks to delist the site, Management of final risk assessment work on the project which includes directing soil-gas sampling to evaluate the site's vapor intrusion risk to neighboring residential properties and surface water quality issues associated with storm sewer discharges of impacted groundwater to a nearby small lake.

Limited Site Investigations, Central Corridor Light-Rail Sites, St. Paul, MN – The MPCA hired Bay West to conduct Limited Site Investigations at four petroleum release sites along the proposed Central Corridor Light Rail route. Mr. Van Allen managed these four investigations, which included directing the utility clearance, receptor survey, soil probe, and vapor intrusion assessment activities, then preparing LSI Reports. The MPCA issued closure letters for all four sites after a single round of assessment work.

Field Lead, Former Scrap Yard and Grain Facility, St. Paul, MN – Prepared an FS and RAP Plan to remediate this 20+ acre facility located along the Mississippi River in St. Paul. This multi-million-dollar project resulted in successful remediation of the site to residential land use standards.

#### Training/Certifications

- 40-Hr OSHA Training w/Current Refresher
- Registered Professional Geologist, MN #40404
- MN Certified Asbestos Inspector, #AI9055
- MN Certified Asbestos Management Planner, #AM9055
- Asbestos Inspector Training and Annual Refreshers
- Asbestos Management Planner Training and Annual Refresher
- USACE Construction Quality Management for Contractors
- DOT HazMat Training (49 CFR 172.704)
- FEMA NIMS ICS Trainings (100, 200, 301, 700)
- First Aid/CPR Certified

#### Education

- BS Geology, 1993

#### Professional Experience

- 24 years' experience
- 8 years with Bay West



**Rick Van Allen, PG  
(continued)**

**Primary Role Qualifications**

*Mr. Van Allen frequently performs project management activities on projects. He has experience with the following:*

- *Compiling work plans and field sampling plans;*
- *Performing vendor subcontracting per requirements specified within the MPCA Contractor and Subcontracting Purchasing Manual and documenting of contracting procedures;*
- *Corresponding with laboratories to ensure delivery of proper sample containers, appropriate analysis, proper pricing, and timely reporting;*
- *Scheduling field work and preparing equipment and staff for field work;*
- *Compiling invoices and budget status reports;*
- *Compiling project completion reports and annual monitoring reports.*

*Project Manager, Arsenic Removal, Various Residential Properties, Minneapolis, MN* – Prepared detailed work plans and completed extensive soil sampling, oversight, direction, administrative support, and documentation of arsenic removal activities on 66 residential properties in Minneapolis, MN.

*Technical Lead/Field Team Leader, Multi-acre Property Site Assessment, St. Louis Park, MN* – Developed a work plan, coordinated subcontractors, and served as field lead to assess a multi-acre property in St. Louis Park contaminated with lithium process waste. Also scoped and assisted with completion of a magnetometer survey on the same property to assess the site for buried containers and debris.

*Due Diligence, Various Phase I ESAs* – Completed over 100 due diligence projects for numerous private clients. Tasks associated with the Phase I ESAs included performing site reconnaissance, researching regulatory databases and historical records, contacting and interviewing property and regulatory representatives, writing technical reports, conducting asbestos inspections, and conducting noise surveys. Follow-up tasks with Phase II Investigations involved advancing soil probes and/or installing wells, collecting soil-gas samples, preparing Phase II Investigation reports, and working with the MPCA to obtain appropriate liability assurance letters, as applicable for each site.

*Twin Cities Army Ammunition Plant (TCAAP) Arden Hills, MN* – Mr. Van Allen prepared a complex Field Sampling Plan (FSP) and QAPP to direct field assessment activities at TCAAP on behalf of a private developer client. After a rigorous approval process of the planning documents by Army, EPA Region 5, and the MPCA, Mr. Van Allen directed the subsequent field effort. The fieldwork included coordinating and overseeing 2 simultaneous drilling crews and associated environmental staff as they completed more than 300 borings and collected more than 600 soil, groundwater, and soil-gas samples. A multi-volume environmental assessment report was prepared summarizing the history of the TCAAP transfer property, and the results of the assessment work completed, which included conclusions and recommendations based on the proposed land use.

*Project Manager, Fort Bragg Multi-Site Environmental Investigation* – Mr. Van Allen managed the investigation at multiple sites on Fort Bragg located in Fayetteville, NC. Four sites were UST- or spill-related petroleum releases that required hollow stem auger drilling and monitoring well installation and sampling to define the extent and magnitude of the releases. Three out of the four sites were successfully closed in the State's petroleum program within one year. The third UST site qualifies for closure but was not funded under the contract. Mr. Van Allen also developed and implemented a work plan and QAPP to conduct a Remedial Investigation and Feasibility Study on a pesticide release on the former installation golf course. A significant portion of the scope of work included assessing four former firing and bombing ranges on the installation for the presence of unexploded ordnance using EM-61 geophysical methods and visual surveys.

*Brownfield Redevelopment, Two Harbors, MN* – Mr. Van Allen managed the work plan, RAP development and implementation of soil response actions at the site of the Castle Danger Brewery in Two Harbors, MN. The property was the location of former railroad activities and demolished buildings with asbestos and lead-impacted soil that required excavation and off-site disposal to facilitate construction of the new brewery and subsequent expansion. The project was partially funded through the successful award of site investigation and cleanup grant funding from MN DEED and was nominated twice for Minnesota Brownfields awards in the Small City Impact category.





## Erik Nimlos, P.G.

PROJECT MANAGER/GEOLOGIST

### OVERVIEW

Mr. Nimlos has experience performing environmental field work including data collection, water quality and soil sampling and analysis. He has conducted all aspects of Phase I ESAs including historical data research and analysis, site reconnaissance and document preparation. He has served as field lead/site supervisor on numerous Phase II investigations on petroleum, metals, and solvent contaminated sites. Additional experience includes oversight of water well installation, brownfield redevelopment construction, groundwater and soil vapor remediation system installation, and pre-demolition building surveys.

### TECHNICAL EXPERIENCE

Mr. Nimlos has performed and managed Phase I ESAs and desktop property transaction screening, LECAs, Phase II ESAs, LSIs, RIs, and DRAPs for petroleum and chlorinated solvent investigations at multiple sites across Minnesota and throughout the US. He has assessed all types of properties including multi-unit residential properties, brownfields, commercial and industrial buildings, oil terminals, landfills, and large highway corridors. He has compiled and analyzed data from soil, groundwater, soil gas, and geological databases.

### PROJECT EXPERIENCE

Scientist II, TH95 Corridor Phase II ESA, Bayport, MN – In preparation of a new storm sewer and traffic signals to be constructed within the ROW, Bay West completed a Phase II to assist MnDOT with soil and groundwater management decisions during construction. 13 sites were reviewed and ranked to identify potentially contaminated properties. Bay West then advanced 9 soil borings at locations throughout the Project Area to determine the presence and magnitude of soil and groundwater contamination. Mr. Nimlos was responsible for preparing and managing the writing and production of the Phase II ESA report and deliverables.

Project Geologist (Terracon), VIC/PBP Program Enrollment, Park Plaza Hotel, Bloomington, MN – During property acquisition, Mr. Nimlos provided due-diligence services for the buyer. Services included Phase I & II ESAs, VIC/PBP application, past and proposed actions letters, additional assessment for soil vapor and indoor air, and requests for file closure and no association assurances.

Senior Staff Geologist (Terracon), Excavation Report, Holiday Station #218 – Burnsville, MN – Project work included oversight for remedial efforts during former storage tank removal and new tank upgrades. Remedial actions included soil screening, soil excavation oversight and vapor barrier installation oversight. Report was prepared for client and the Minnesota Pollution Control Agency detailing excavation and requesting regulatory spill closure.

Senior Staff Geologist (Terracon), Due-diligence Services, undisclosed commercial properties – La Crosse, WI – Project work included site reconnaissance and Phase I ESA report for three adjacent properties in former industrial area. Phase II subsurface ESA investigation oversight involved work plan preparation, sub-contractor coordination and reporting on findings and conclusions. Wisconsin Department of Natural Resources was contacted for regulatory guidance and assistance.

### Training/Certifications

- 40-hour HAZWOPER Training w/Current Refresher

### Education

- MS, Geological Sciences, State University of New York at Buffalo, 2009
- BS, Geology, Wheaton College, IL, 2006

### Registrations & Licenses

- PG (#53949/MN)
- Asbestos Inspector (#AI12856/MN)

### Professional Experience

- 14 years of experience
- 4 years with Bay West

#### Primary Role Qualifications

Mr. Nimlos has 10 years' experience performing environmental field work and project management activities including:

- Geophysical and laboratory analytical sample data collection and interpretation;
- Groundwater sampling using multiple technologies;
- Compiling work plans and field sampling plans;
- Scheduling field work and preparing equipment and staff for field work;
- Compiling invoices and budget status reports; and
- Compiling project completion reports and annual monitoring reports.



Geologist (AKRF, Inc.), New City Plaza Brownfields Site – New City, NY – Project work included contaminant plume delineation through groundwater sampling, sub-slab depressurization maintenance, sub-slab soil vapor sampling, new groundwater monitoring well installation and soil screening. Groundwater sampling data and plume delineation investigation results and recommendations for additional remediation work were reported to the client and NYSDEC.

Staff Professional (Antea Group), On-going Remedial Investigation, BP Brooklyn Terminal – Greenpoint-Brooklyn, NY – Project work included remediation system O & M for a multi-well pump-and-treat system; remedial investigation including soil characterization and soil vapor sampling; reporting including quarterly remedial reports to the NYSDEC and free petroleum product in soil estimation.

Geophysical Technician (NAEVA Geophysics), Former Exxon Port Oil Terminal – Mount Vernon, NY – Project work included subsurface utility delineation using radio-frequency utility-locating instruments and ground-penetrating radar. Subsurface petroleum tank basins and infrastructure were mapped using EM-61 electromagnetic survey. Figures were created showing electromagnetic potential across the site using Surfer, AutoCAD, and Geosoft Oasis Montaj.

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