

536 Central Avenue
City of Rochester
Monroe County, New York

Soil & Groundwater Management Plan

Prepared for:



Owner
City of Rochester
30 Church St, Rm. 300B
Rochester, New York 14614

Prepared By:



280 East Broad Street, Suite 170
Rochester, NY 14604

August 2023

Revision to Soil and Groundwater Management Plan:

Revision #	Approval Date	Summary of Revision

Table of Contents

1.0 Introduction 1

 1.1 Project Description and Previous Environmental Work 1

 1.2 Statement of Purpose 1

2.0 Project Entities and Responsibilities 1

 2.1 Notifications 3

3.0 Soil and Groundwater Management Plan 3

 3.1 Potential Environmentally Impacted Material 3

 3.1.1 In-field Identification 4

 3.1.2 Handling 5

 3.1.3 Characterization 6

 3.1.4 Disposal Options 8

4.0 Health and Safety 9

5.0 Institutional Controls 9

Figures

- Figure 1– Project Location Map
- Figure 2– Site Plan

Appendices

- Appendix A – 536 Central Avenue Underground Storage Tank Closure Report - July 2023
- Appendix B – “Construction Site Materials Reuse Under 6NYCRR Part 360 (NYSDEC)”
- Appendix C – Health and Safety Plan
- Appendix D – Initial Environmental Impact Documentation Form

1.0 Introduction

Lu Engineers has prepared this Soil and Groundwater Management Plan (SGMP) on behalf of the City of Rochester, the current owner of the property. The property is located at 536 Central Avenue in Rochester, New York and is herein referred to as the Subject Property (Figure 1).

This SGMP should be implemented when work has the potential to disturb soil and/or groundwater that is environmentally impaired or that may contain regulated materials including, but not limited to Urban Fill. This plan should also be implemented in conjunction with Project Plans, Specifications and all applicable regulatory requirements relating to soils, groundwater, soil vapor and/or excavated materials management and disposal.

1.1 Project Description and Previous Environmental Work

It is understood that redevelopment of 536 Central Avenue into a multi-family and community services residential facility is planned by the future owner.

An environmental remediation project was completed on the southwestern portion of the Subject Property in June 2023. This project included the removal of seven (7) USTs and associated impacted soils due to the past use as a filling station prior to 1950. A copy of the Closure Report is included as Appendix A for reference. The remedial work focused on the southwestern portion of the property where the past presence of underground petroleum storage tanks had been documented. Urban Fill, demolition debris and other materials may be present related to the former presence of seven (7) residential and commercial buildings elsewhere within the parcel. Based on review of aerial photographs, plat maps, and Sanborn maps, it appears that the buildings were demolished between 1950 and the early 1990s.

1.2 Statement of Purpose

The purpose of this SGMP is to present procedures to evaluate and manage impacted soil, regulated materials, Urban Fill and/or groundwater that may be encountered during intrusive project activities.

2.0 Project Entities and Responsibilities

Various entities will be involved with the implementation of this SGMP. The entities and their responsibilities are summarized in Section 2.0 and further discussed in specific sections of the SGMP.

Owner

The Owner's Project Manager (PM) and/or Designated Representative (including Resident Project Representative (RPR)) will be responsible for:

- conducting a pre-excavation site visit of the specific work areas to identify any potential conditions or features indicating potential environmental impairment;
- project observation and documentation of conditions encountered; and
- approval of waste characterization profiles and off-site disposal of contaminated or regulated materials.

Resident Project Representative

Where a Resident Project Representative (RPR) is retained by the Owner, the on-site duties of the RPR will include, but not be limited to:

- project observations and documentation of conditions encountered;
- directing the contractor relative to staging and sampling of waste streams; and



- overseeing shipment activities associated with impacted or otherwise regulated materials.

The RPR may also be responsible for conducting pre-excavation site visits and/or research of the property and surrounding area to assist in the identification of conditions that may be encountered during the construction project.

Qualified Environmental Professional (QEP)

If environmental impacts to soil, fill or groundwater are known or encountered, the PM or RPR will be responsible for retaining a QEP, if necessary to:

- assist in environmental field monitoring;
- collect samples;
- observe segregation of impacted material from un-impacted material; and
- conduct periodic observation/review of site conditions, staged wastes, and related documentation.

The company retained to provide the QEP shall be an environmental consulting/engineering firm with experience in the design, investigation and cleanup of contaminated sites. The choice of the QEP and associated company shall be approved by the Owner.

At a minimum, the QEP shall meet the following qualifications:

- Completed 40-Hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training and 8-hour HAZWOPER refresher training (29 Code of Federal Regulations (CFR) 1910.120).
- Trained in the use and calibration of environmental monitoring equipment, including a photoionization detector (PID), aerosol (i.e., particulate, dust) meter, an oil/water interface probe meter, etc.
- Trained in the proper techniques for collecting samples of various environmental media (i.e., soil, groundwater, fill, etc.) for analytical laboratory sampling.
- Experienced in identifying the types of environmental impacts to soil, fill and groundwater that may be encountered.
- Maintain an understanding of Federal State and Local environmental laws, regulations and guidance documents, including, but not limited to, NYSDEC Division of Environmental Remediation (DER)-10, NYSDEC Spill Notification requirements, and Monroe County Sewer Use Law and Discharge Permit requirements.
- Maintain an understanding of the project health and safety plan requirements, including the community air monitoring program.

Contractor

The Contractor will be responsible for:

- Completing the scope of work agreed upon with the Owner and in accordance with this SGMP, the Contract Documents and all applicable regulations.
- Immediately notifying the Owner, RPR, and/or QEP upon encountering suspected environmental impacts to soil or groundwater.
- Stockpiling waste streams for characterization, providing necessary plastic sheeting and weights (i.e., sandbags or other) and maintaining the stockpile.
- Unless otherwise agreed upon with the Owner, trucking and disposal of impacted or regulated materials at a NYSDEC Part 364 Permitted landfill, as directed by the Owner, RPR, or QEP.



2.1 Notifications

In the event that suspected subsurface material (i.e., soil, groundwater, etc.) containing environmental impacts and/or regulated Urban Fill are encountered during ground intrusive activities, the following notification sequence should be followed:

Contractor

If the Contractor observes field evidence of environmental impact (i.e., visual, odors, fill, etc.), it shall stop work at the location and immediately notify the PM or RPR and will only resume work in that area as directed by the PM, RPR or QEP in accordance with this SGMP.

PM and RPR

If the PM or RPR observe field evidence of environmental impact and/or regulated Urban Fill, it shall stop work at the location until a QEP is present and a plan is in place to address the impact. The QEP will then notify and properly direct the Contractor to implement SGMP actions to address the impact (typically segregating the waste, staging, covering, etc.). The QEP shall complete an Initial Environmental Impact Documentation Form to document the impact. The Owner will be notified immediately to determine if the encountered impact appears to require reporting to the NYSDEC as a spill.

If the environmental impacts observed by the Contractor, PM, RPR or QEP include suspected non-aqueous phase liquid (i.e., floating petroleum free product), tanks or piping associated with underground storage systems, piping or other materials associated with in-situ remediation systems or engineering controls or monitoring wells, the work shall be stopped. In addition, the Owner shall be immediately notified, and an appropriate strategy for managing the material will be approved by the Owner prior to being implemented.

Owner

The Owner will determine if the environmental impact condition requires reporting to the NYSDEC as a spill, and shall contact the NYSDEC and document the call.

If a spill needs to be reported to the NYSDEC, contact:

Spills Hotline: (800) 457-7362, or
Region 8 Office: (585) 226-2466

3.0 Soil and Groundwater Management Plan

This SGMP provides procedures to recognize Urban Fill and environmental impacts that could be encountered during future intrusive construction projects. In addition, this SGMP provides guidance and options regarding the management and disposal of subsurface material. The procedures presented herein are intended to reduce potential exposure to workers conducting subsurface activities should impacted subsurface materials be encountered that require management.

3.1 Potential Environmentally Impacted Material

This section describes the types of environmentally impacted material that may be encountered and provides information on the identification, handling, analytical laboratory testing and disposal of these materials. For reference, Appendix B includes the following NYSDEC guidance document: "Construction Site Materials Reuse Under 6NYCRR Part 360".



3.1.1 In-field Identification

Petroleum-Impacted Material

Petroleum-impacted soil may be stained gray or black, contain a rainbow-type sheen and emit petroleum-type odor. Petroleum-impacted groundwater may emit a petroleum-type odor, and could contain a floating sheen. Free petroleum product, if encountered, would exhibit an oily type texture, emit a strong petroleum-type odor, likely amber to dark brown/black in color, and would be floating on the groundwater surface. Elevated PID readings exceeding background measurements on ambient air above soil or groundwater is also indicative of the presence of volatile organic compounds (VOCs) associated with petroleum impact.

Unknown VOC Impacted Material

VOC impacted soil or fill may be stained (i.e., gray, black, etc.), and emit a chemical, sweet, or ethereal odor depending upon the actual VOCs present. Any odor may dissipate quickly, even in severely impacted samples due to the volatile nature of the VOCs. VOC impacted groundwater may also emit a chemical, sweet or ethereal odor. Free product, if encountered, may exhibit a slippery type texture, emit a strong odor, likely present as amber to dark gray color and may sink in water. Elevated PID readings exceeding background measurements on ambient air above soil, fill or groundwater is also indicative of the potential presence of VOCs impact.

Fill Material

Various types of fill may be encountered during ground intrusive activities. Fill material may not exhibit elevated PID readings exceeding background measurements on ambient air unless they are also impacted with VOCs (i.e., petroleum, chlorinated solvents, etc.).

RUCARBS

Recognizable Uncontaminated Concrete, Asphalt, Rock, Bricks and Soil (RUCARBS). This includes reworked soil that occasionally may contain de minimus (very minor) amounts of other material.

Imported Geotechnical Fill

Geotechnical fill such as sand, bank run sand and gravel, and various sizes of crushed stone may have been imported during previous public ROW projects. Sand color is typically tan, brown, reddish brown, or grayish brown, and may be fine to coarse in size. Bank run sand and gravel is typically tan, brown, reddish brown, or grayish brown, with fine to coarse sand, small to large rounded to sub-angular gravel, and occasional small rounded to sub-angular cobble. Crushed stone generally consists of locally-mined and processed gray to dark grey dolostone.

Ash Fill

Layers, lenses, or pockets of fill material primarily consisting of ash may appear white, yellow, or gray in color, is relatively soft and has a gritty texture. It may or may not have exhibit an unusual odor. Other similar types of fill material include cinders, slag, coal, foundry sand, etc. All of these materials are considered to be a regulated industrial solid waste.

Unknown Fill/ Building Debris/Miscellaneous Debris

Fill material of unknown composition, may vary in color, contain odors, etc.



3.1.2 Handling

Impacted soil, fill and groundwater that are encountered must be managed in accordance with applicable federal, state, and local regulations, including 6 New York Code, Rules, and Regulations (NYCRR) Part 360, Part 375 and the requirements set forth in NYSDOT Standard Specification Sections 107-10 and 200. During intrusive work where suspected or known impacted media are present, soil, railroad ties and bedding, fill and liquids (i.e., water) being disturbed or removed must be assessed for field evidence of impact (i.e., petroleum and/or chemical-type odors, staining, free product, sheen, fill types considered to be regulated waste, etc.) by the QEP. In addition, the ambient air above removed or excavated media must be screened for VOCs using visual, olfactory and/or environmental monitoring equipment (i.e. PID, dust meter, etc.).

Wastes are to be segregated by type and/or location to limit comingling of various waste streams, to the extent possible. The following is general guidance for the handling of materials that are potentially impacted with petroleum, fill and/or chlorinated solvents that may be encountered during subsurface work.

Generation of impacted groundwater should be avoided and/or minimized whenever possible. Excavations should not be left open if inclement weather is anticipated. Diversion sumps or channels should be used to divert water from work area. Water should be allowed to drain back into the ground whenever possible. If staging of groundwater becomes necessary to avoid project delays, properly control impacted media or for other reasons agreed upon with the QEP and/or RPR, the Owner shall be immediately notified. No staging of groundwater shall be conducted without the approval of the Owner.

If impacted materials are staged on-site, any disposal, etc. must be conducted within 60 days, unless otherwise authorized by Owner and/or NYSDEC. Impacted soil or fill that is excavated or disturbed should remain on-the subject property and be segregated from non-impacted media, and handled in one (1) or more of the following methods:

- Place on, and cover with, 6-millimeter plastic sheeting. Secure plastic sheeting with sandbags or other suitable inert weights, and replace as needed if damaged by wind, site activities or other factors.
- Place in NYSDOT-approved 55-gallon drums with secure lids. Label drums with date, contents, and generator.
- Place in one (1) or more lined roll-off with secure cover.

The Contractor performing the work will be responsible for providing the necessary materials, labor and equipment to segregate, handle, and maintain the stockpiled impacted material. The NYSDEC has developed a reference matrix (“Construction Site Materials Reuse Under 6NYCRR Part 360: Quick Reference Guide”) to outline regulatory compliance considerations relative to soil and fill materials typically encountered during construction projects. This matrix is available from the NYSDEC. NYSDOT Section 205 – “Contaminated Soil” also outlines procedures that must be followed for handling and disposal of contaminated materials encountered on NYSDOT construction projects.

The following include general descriptions of types of impacted soil and fill that may be encountered.



Petroleum and/or Unknown VOC-Impacted Soil or Fill

Soil or fill should be considered to be petroleum and/or chlorinated solvent-impacted if: 1) PID readings on ambient air above a sample of the soil exceed 10 parts per million (ppm) above background; and/or 2) the soil exhibits a petroleum or chemical nuisance odor, sheen or free product.

Urban Fill Material

Handling requirements are dependent upon the type of fill being encountered. During intrusive work, fill material that is being disturbed or removed should be categorized by type. The following is general guidance for the handling of various types of fill material that may be encountered during subsurface work:

Ash/Cinders/Slag/Coal/Foundry Sand Fill: Fill material containing these materials in quantities that are not considered de minimis must be managed in accordance with applicable federal, state and local regulations. Fill material containing ash should be segregated from non-impacted media, and handled as described above.

Unknown Fill/Building Debris/Miscellaneous Debris: If these fill materials are encountered, they should be managed in accordance with applicable federal, state and local regulations. Unknown fill material/debris should be segregated from other media, and handled as described above.

Petroleum and/or Unknown VOC-Impacted Liquids

Petroleum and/or chlorinated solvent-impacted groundwater, standing water, or free product that must be removed from the subsurface (i.e., excavations, etc.), must be containerized (i.e., placed in new or clean and unused reconditioned sealed NYSDOT-approved 55-gallon drums, holding tanks or frac tanks) prior to characterization and disposal. A suitable pump will need to be utilized to pump the free product, petroleum and/or chlorinated solvent-impacted water from the work areas (i.e., excavation) until such time that the work is completed. To the extent practicable, free product should be segregated/removed from impacted water, and stored separately. In addition, petroleum and/or chlorinated solvent-impacted groundwater may require pre-treatment prior to waste characterization sampling and testing.

3.1.3 Characterization

The PM, RPR or QEP will coordinate with the Owner on all waste characterization (including sampling and laboratory analysis) and waste profiling. Petroleum or chlorinated solvent impacted soil, fill and groundwater, and certain other fill material, must be characterized in accordance with applicable federal, state and local regulations, as well as disposal facility requirements. The following is general guidance for characterizing these materials.

Petroleum and/or Unknown VOC-Impacted Soil or Fill

Representative samples of the stockpiled Urban Fill, petroleum or chlorinated solvent impacted soil will be collected, and the samples will be submitted to a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified analytical laboratory for testing of appropriate waste characterization parameters.

The proposed waste disposal company will identify the number of samples and the test parameters required. However, based on typical disposal facility requirements in the Greater



Rochester area, it is anticipated that the waste characterization sampling and analysis program required by the disposal facility may include, but not be limited to, one (1) or more of the following:

- Collect one (1) sample for the first 500-tons of soil or fill, and one (1) sample for each 1,000-tons thereafter.
- Test each sample at a NYSDOH ELAP-certified analytical laboratory for:
 - United States Environmental Protection Agency (USEPA) target compound list (TCL) VOCs using USEPA Method 8260;
 - USEPA TCL semi-volatile organic compounds (SVOCs) using USEPA Method 8270;
 - Resource Conservation and Recovery Act (RCRA) Metals using USEPA Methods 6010;
 - Flashpoint using USEPA Method 1010 or 1030;
 - Corrosivity (pH) using USEPA Method 9045D; and
 - Reactivity using USEPA Method 7.3.

Urban Fill Material

Characterization requirements are dependent upon the type of fill material encountered. The following is general guidance for fill materials that may be encountered during subsurface work and require analytical laboratory testing as part of their characterization.

Ash/Cinders/Slag/Coal/Foundry Sand Fill: Fill material containing these materials in quantities that are not considered de minimis will require one (1) or more samples to be collected and subsequently tested by an ELAP-certified analytical laboratory.

Unknown Fill/Building Debris/Miscellaneous Debris: If unknown fill material is encountered, it will require one (1) or more samples to be collected and subsequently tested by an ELAP-certified analytical laboratory.

Representative samples of the stockpiled fill material consisting of ash fill or unknown fill will be collected, and the samples will be submitted to a NYSDOH ELAP-certified analytical laboratory for testing of the appropriate characterization parameters. If the waste requires off-site disposal, the proposed waste disposal company will identify the number of samples and the test parameters required. However, based on the disposal facility requirements in the Greater Rochester area it is anticipated that the waste characterization sampling and analysis program required may include, but not be limited to, one (1) or more of the following:

- Collect one (1) sample for the first 500-tons of fill, and one (1) sample for each 1,000-tons thereafter.
- Test each sample at a NYSDOH ELAP-certified analytical laboratory for one (1) or more of the following parameters:
 - USEPA TCL VOCs using USEPA Method 8260.
 - USEPA TCL SVOCs using USEPA Method 8270.
 - Total RCRA metals using USEPA Methods 6010 and 7471.
 - Toxicity Characteristic Leaching Procedure (TCLP) metals using USEPA Method 13110, 6010 and 7470 (only if exceedances noted on initial total analyses).
 - Pesticides and Herbicides Methods 8081 and 8151
 - Flashpoint using USEPA Method 1010 or 1030.
 - Corrosivity (pH) using USEPA Method 9045D.
 - Reactive sulfide and reactive cyanide using USEPA Method 7.3.



- Polychlorinated Biphenyls using USEPA Method 8082.

Petroleum and/or Unknown VOC-Impacted Liquids

Representative samples of each type of liquid (i.e., water, free product) will be collected, and the samples will be submitted to a NYSDOH ELAP-certified analytical laboratory for testing of appropriate waste characterization parameters. The proposed waste disposal company or wastewater treatment facility will identify the number of samples and the test parameters required. However, it is anticipated that the waste characterization sampling and analysis program that is required for petroleum and/or chlorinated solvent-impacted water and free product may include, but not be limited to, one (1) or more of the following:

- Collect one (1) sample for each type of liquid media (i.e., water, free product).
- Test each sample at a NYSDOH ELAP-certified analytical laboratory for one (1) or more of the following:
 - Purgeable organic VOCs using USEPA Method 624;
 - SVOCs using USEPA Method 625;
 - Total lead using USEPA Method 200.7;
 - and Flashpoint using USEPA Method 1010 or 1030.

3.1.4 Disposal Options

This section addresses disposal for fill materials, and petroleum and/or unknown VOC-impacted soil, fill and liquids. The Owner will be responsible for providing approval of proposed disposal facilities and waste transporters; reviewing and signing waste profiles, reviewing and signing waste shipping papers, waste characterization sampling and coordinating waste characterization and disposal. The Contractor will be responsible for waste loading, transport and disposal and providing documentation to PM/RPR. **[Note: Environmentally impacted material must not be taken off-site without Owner approval.]**

Petroleum and/or Unknown VOC-Impacted Soil or Fill

The petroleum and/or unknown VOC-impacted soil or fill is to be disposed of at a permitted disposal facility. A waste profile will be prepared by the RPR or QEP based on discussions with the Owner and/or NYSDEC, and submitted, in draft, to the Owner for review and approval prior to any submission to the selected disposal facility. Subsequently, the draft profile will be submitted to the waste disposal company to obtain approval for disposal.

Once approved, the petroleum and/or otherwise impacted soil or fill, and any plastic sheeting or drums, shall be loaded onto NYSDEC Part 364 permitted trucks or trailers, and transported to the approved waste disposal facility for disposal by the contractor.

For areas with known contamination, waste characterization samples can be collected and analyzed, and waste profiling can be approved for a designated waste disposal facility (i.e., regulated landfill) prior to excavation allowing the materials to be direct loaded onto NYSDEC Part 364 permitted trucks and transported to the designated waste disposal facility for disposal.

Urban Fill Material Disposal

Options for disposal of ash fill or unknown fill material may include, but not limited to the following:



Ash/Cinders/Slag/Coal/Foundry Sand Fill: Due to its tendency to contain elevated levels of heavy metals, its poor geotechnical quality, and it being considered a regulated waste, fill material that contains greater than de minimis quantities of ash shall be disposed at an appropriate waste disposal facility (i.e., regulated landfill).

Unknown Fill/Building Debris/Miscellaneous Debris: Unknown/Miscellaneous fill that is determined to be a regulated solid waste shall be disposed at an appropriate waste disposal facility (i.e., regulated landfill).

Petroleum and/or Unknown VOC-Impacted Liquids

Options for addressing petroleum and/or chlorinated solvent-impacted liquids (i.e., groundwater, stormwater, snowmelt) may include:

- Obtain a permit in order to discharge to a Publicly Owned Treatment Works (POTW) sanitary or combined sewer system in Monroe County, NY.

If the water contains free product, a sheen or exceeds Monroe County sewer use limits or other criteria, it will require pre-treatment and re-testing prior to discharge under a sewer use permit.

- Off-site transport, and treatment or disposal, in accordance with applicable regulations.

Options for addressing free product may include off-site transport, and recycling or disposal, in accordance with applicable regulations. As discussed in Section 3.1.2, prevention and mitigation of the generation of impacted groundwater must be considered during all excavation-related activities.

4.0 Health and Safety

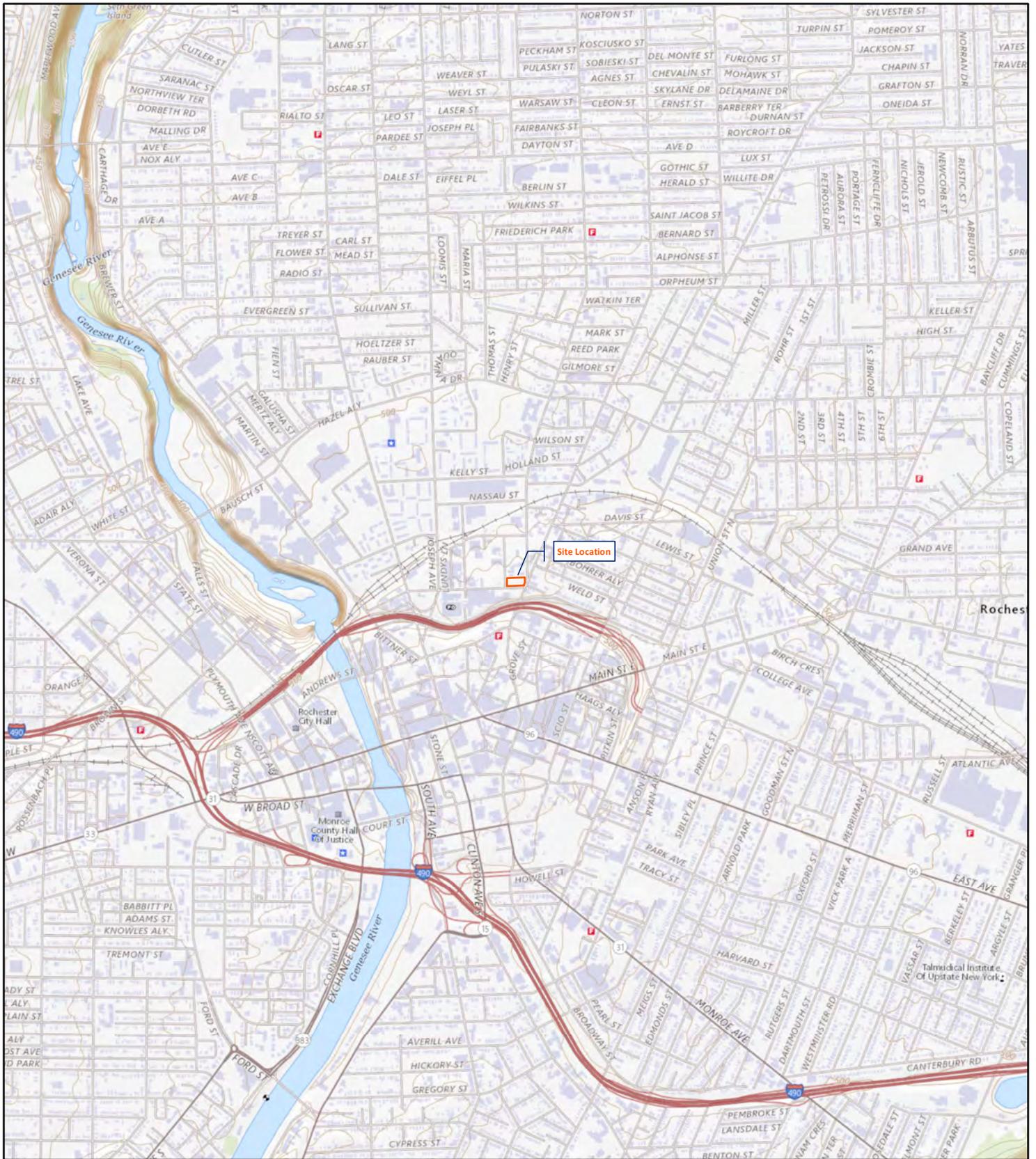
The site Owner is responsible for making site workers involved with intrusive activities (i.e., excavation, dewatering, etc.) aware of the potential harmful exposures that may be present in subsurface media on the Project Corridor. This SGMP should be provided to site workers for their review. The Owner will discuss with the site workers the proper identification, handling and disposal methods described herein, and will caution the site workers to avoid or minimize disturbance of impacted material in order to reduce or eliminate exposure to contaminants. Areas that have been disturbed (i.e., excavated, etc.) that contain petroleum- contaminated material should be restored (i.e., backfilled/covered with clean soil/fill cover, paved, etc.).

The entity conducting intrusive activities (i.e., excavation, dewatering, etc.) that have the potential to disturb petroleum-contaminated media must conduct its work in accordance with a NYSDEC-accepted Health and Safety Plan (HASP). A NYSDEC-accepted HASP should contain on-site air monitoring requirements and a Community Air Monitoring Plan (CAMP) (see Appendix C). The entity can implement this HASP during intrusive project activities.

5.0 Institutional Controls

Institutional controls ensure that environmental conditions at the site/project are evaluated prior to new construction. If a permit is approved that has the potential to result in encountering impacted material, the Owner will provide a copy of this SGMP to the involved parties, notify the involved parties of the environmental conditions at the site, and require the work to be completed in accordance with the SGMP.





Scale 1: 24,000

Contour Interval: 10-feet

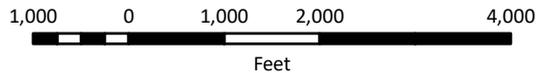


Figure 1. Site Location Map
536 Central Avenue
City of Rochester, NY



DATE: August 2023
PROJECT #: 4258-20
DRAWN/CHECKED: BGS/GLA
DATA SOURCE: ESRI Online Basemap

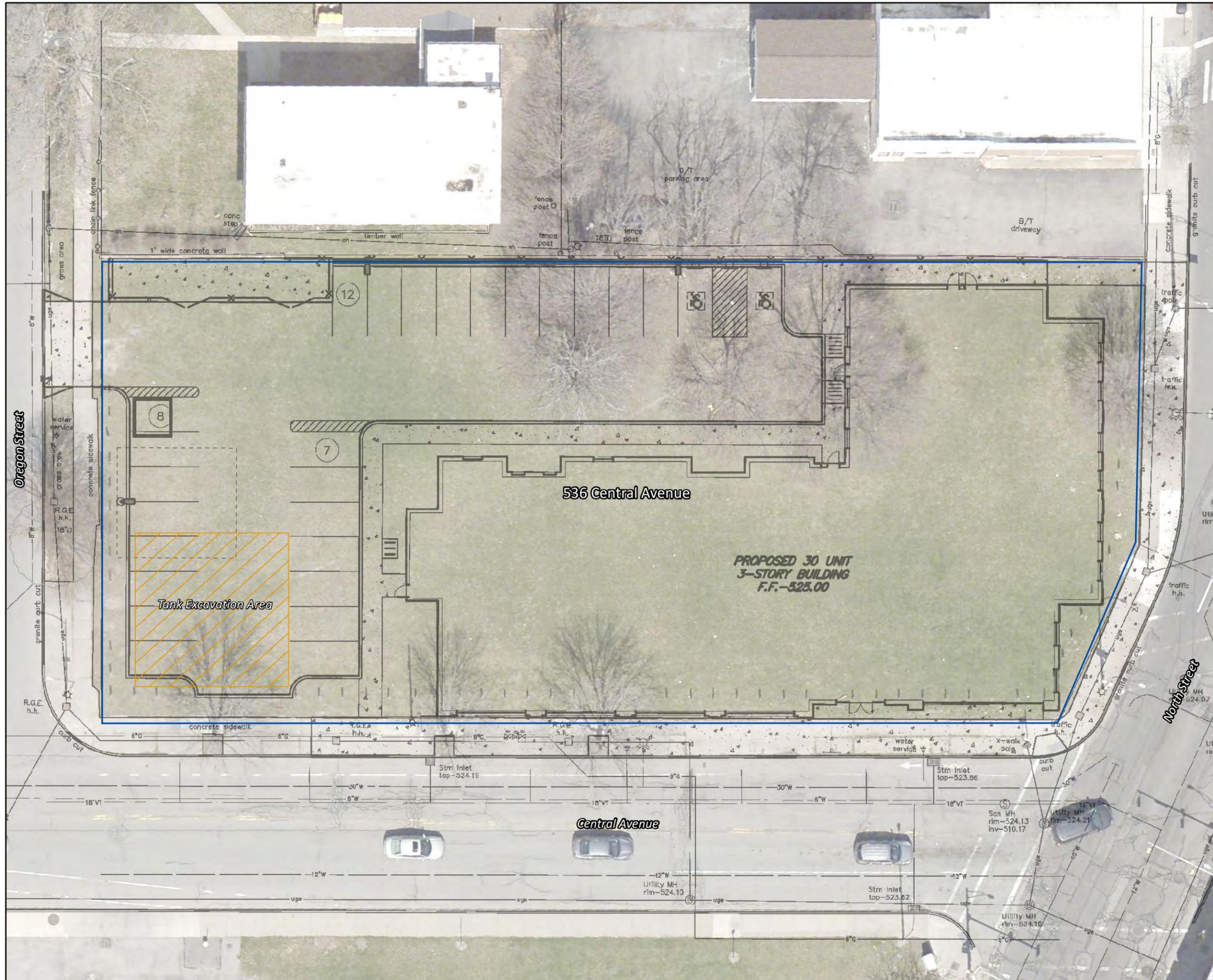
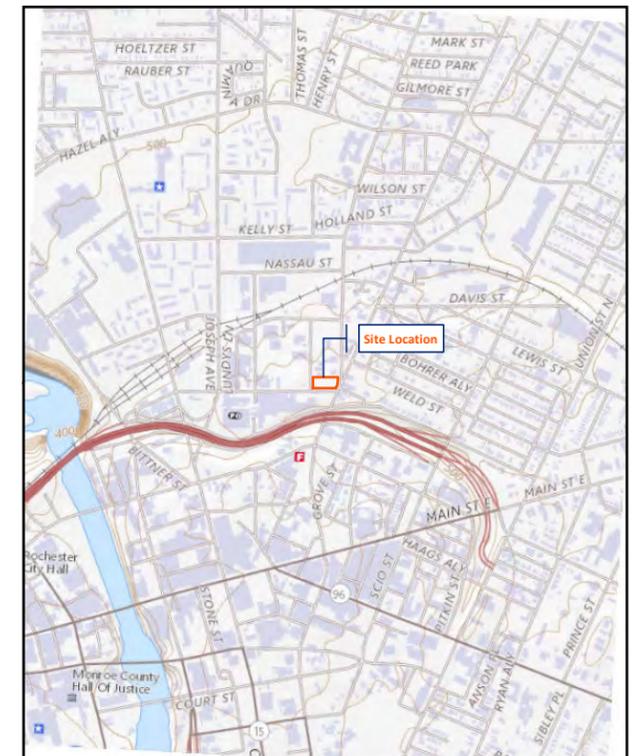


Figure 2.
 Site Plan

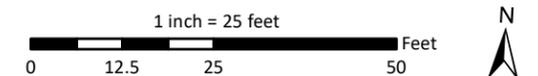
Project:
 City of Rochester
 Soil and Groundwater Management Plan



Location:
 536 Central Avenue
 City of Rochester, Monroe County, NY

Legend

- Site Boundary
- Former UST Excavation



Drawn/Checked By: BGS/GLA

Lu Project Number: 4258-20

Date: August 2023

Notes:

1. Coordinate System: NAD 1983 State Plane NY West FIPS 3103 Feet
2. Orthoimagery (April 2021) downloaded from Pictometry, topo from Monroe County GIS
3. Scale: 1:300 (original document size 11"x17")

536 Central Avenue
City of Rochester
Monroe County, New York

Underground Storage Tank Closure Report

Prepared for:



City of Rochester
Division of Environmental Quality
30 Church Street Room 300 B
Rochester, New York 14614

Prepared By:



Joseph C. Lu Engineering PC
280 East Broad Street, Suite 170
Rochester, NY 14604

July 2023

Table of Contents

1.0 Introduction 1
 1.1 Background 1
2.0 Scope of Work..... 2
3.0 Tank Closure..... 2
 3.1 Closure Restrictions 2
 3.2 Tank Sampling..... 2
 3.3 Backfill Import..... 4
 3.4 Tank Excavation 4
 3.5 Tank Closure..... 4
 3.6 Tank Removal & Cleaning 5
4.0 Excavation of Contaminated Soils..... 7
 4.1 Confirmatory Sampling 7
6.0 Remedial Activities..... 8
7.0 Backfill & Restoration..... 8
8.0 Transportation & Disposal of Hazardous Waste 9
9.0 Waste Disposal Summary..... 9

Figures

- Figure 1 – Site Plan
- Figure 2 – Remedial Staging Figure
- Figure 3 – Precautionary Sample Results
- Figure 4 – Confirmatory Results

Tables

- Table 1 – UST Water Sample Results
- Table 2 – UST Sludge Sample Results
- Table 3 – Precautionary Bottom Sample Results
- Table 4 – Final Confirmatory Sample Results

Attachments

- | | |
|---|---|
| Attachment A – Tank Registration Documents | Attachment D-1 – Tank Recycling Documentation |
| Attachment B-1 – Water Lab Report | Attachment D-2 – Non-hazardous Soil Disposal Documentation |
| Attachment B-2 – Sludge Lab Report | Attachment D-3 – Non-hazardous Water Disposal Documentation |
| Attachment B-3 – Tank Bottom Soils Lab Report | Attachment D-4 – Hazardous Sludge Disposal |
| Attachment B-4 – Confirmatory Sample Lab Report | |
| Attachment C – Photo Pages | |

Appendices

- Appendix A – May 2022 Investigation Summary Letter
- Appendix B – Soil Importation Summary Letter

1.0 Introduction

Lu Engineers has completed observation and documentation relating to closure of seven (7) underground storage tanks (USTs) for the City of Rochester (the City) Department of Environmental Services, located at 536 Central Avenue in the City of Rochester, Monroe County, New York (Figure 1).

This report summarizes the closure of three (3) 500-gallon and four (4) 1,000-gallon USTs in accordance with 6 New York Code Rule Regulations (6 NYCRR) Subpart 613-2.6 and New York State Department of Environmental Conservation (NYSDEC) 'Permanent Closure of Storage Tanks Memorandum', modified December 3, 2003, and applicable New York State Department of Transportation shipping protocols. This report also provides copies of closure and disposal documentation.

1.1 Background

The site is an undeveloped 0.73-acre parcel currently owned by the City of Rochester. A Phase I Environmental Site Assessment (ESA) conducted for the property in September 2021 determined the site was historically used as a gas station and automotive repair facility (among other uses). Records indicated that multiple gasoline underground storage tanks (USTs) were installed in 1956; however, no NYSDEC removal/closure documentation was identified.

Initial Phase II ESA and geophysical evaluations (February 2022) identified an anomalous subsurface feature in the vicinity of the historically mapped USTs, located near the southwest corner of the site. NYSDEC active spill No. 2109562 was assigned to the site when a soil boring installed as part of the Phase II was advanced through an orphan tank and a small quantity of soils containing heavily degraded petroleum product was observed during screening.

Lu Engineers was contracted by the City in May 2022 to conduct the closure of the orphan tank encountered during Phase II work and evaluate the site for potential additional USTs. Upon expansion of the excavation to uncover the known tank, six (6) additional USTs were identified. Exploratory excavation and inspection of the seven (7) USTs did not indicate evidence of petroleum-impacted soils; it is noted that the limited excavations (maximum depth of approximately 5-feet) performed did not allow access to tank contents or surrounding underlying soils. Based on direct observations made in the field, comparison to the Highland Tank Chart (2021) indicated each was a 1,000-gallon UST; however, the volume of potential remaining product and contents of the tanks could not be determined (refer to Appendix A).

An additional, limited subsurface soil boring investigation (December 2022) in the vicinity of the tanks indicated evidence of petroleum residues likely associated with a past release(s). Impacted soils were associated with strong gasoline/degraded petroleum odors. No free-phase petroleum was observed during the investigation. Photoionization Detector (PID) screening throughout the soil boring program detected volatile organic vapor concentrations ranging from 0 to 1655 parts per million (ppm), with the peak reading being observed topographically downgradient (southwest) of the identified USTs. Upgradient borings (northeast) exhibited significantly lesser signs of subsurface petroleum impacts.

The City registered the seven (7) USTs and notified the NYSDEC prior to initiating tank closure. Registration documents are included as Attachment A. The area of inferred impacted soils was delineated using data observed during subsurface investigations (Figure 2) and a Corrective Action Plan (CAP) was developed for closure of the USTs.



2.0 Scope of Work

The scope of work for this project included uncovering, emptying, purging/inerting, removing, cleaning, transporting, and disposing of seven (7) USTs. Each tank was closed in accordance with the requirements set forth in NYSDEC memorandum 'Permanent Closure of Petroleum Storage Tanks' dated December 2003 as well as 6 New York Code Rules and Regulations (NYCRR) 613.9(b) 'Closure of Tanks Permanently Out-of-Service'. All work was conducted in accordance with Lu Engineers' approved CAP dated February 2023.

3.0 Tank Closure

UST closure was conducted from May 15-24, 2023. The following sections summarize completed field activities.

3.1 Closure Restrictions

The following safety protocols were adhered to during all tank closure operations (including sampling and inspection, product removal, and tank cutting):

- The work area was secured by construction fencing to create a controlled access perimeter around the tank pit.
- No open-flame or spark-producing equipment was allowed within the work area.
- No electrical or internal combustion equipment, unless designed to be "explosion proof" or "intrinsically safe", was allowed within the work area.
- Only "non-sparking" tools were used.
- Static electricity was controlled through grounding and related precautions in accordance with all National Fire Protection Association (NFPA) and Rochester Fire Department (RFD) requirements as well as applicable industry standards.
- Smoking was prohibited in the work area.
- Air monitoring for volatile organic compounds (VOCs) was conducted throughout the UST closure process.

Additionally, all work was conducted in accordance with the approved CAP and Health and Safety Plan (HASP).

3.2 Tank Sampling

Prior to mobilization for UST closure, Lu Engineers and Trec Environmental Inc. (Trec) visited the site to excavate, inspect, sample, and verify the contents of each UST. Trec began by utilizing an excavator to remove overburden soils and locate the western sides of the tanks. It is noted that previous investigations uncovered the eastern sides of the seven (7) USTs; complete excavation and inspection of the USTs was not previously conducted.

Overburden soils/fill were stockpiled in order to expose the top of each tank. Large quantities of RUCARBs (recognizable, uncontaminated concrete, asphalt, brick, glass, rock, and general fill), including concrete, brick, and masonry, were observed. Various inactive fill ports, dispenser lines, and appurtenances were encountered during excavation.

Prior to accessing the tank interiors for sampling, the RFD Fire Marshall was on-site to inspect the work area and review and approve the proposed UST closure program.



The following table summarizes the apparent residual contents and volume identified within each UST. Samples were collected for laboratory analysis as indicated in the following table:

Assigned Tank ID	Tank Sizes	Contents	Residual Content Volume	Laboratory Analysis
UST-01	48" x 10'9" (1,000-gallon)	Empty; trace amounts of sediment/soil	--	--
UST-02		Water	~827-gallons	Composite Sample - Benzene - Lead - Flashpoint
UST-03		Black, highly viscous, oily sludge with strong degraded petroleum odor	~165-gallons	- TCL VOCs - TCLP RCRA Metals - PCBs - Ignitability
UST-04		Black, highly viscous, oily sludge with strong degraded petroleum odor	~220-gallons	- TCL VOCs - TCLP RCRA Metals - PCBs - Ignitability
UST-05	48" x 5'5" (500-gallon)	Water and sediment	~161-gallons	Composite Sample - Benzene - Lead - Flashpoint
UST-06		Water and sediment	~135-gallons	
UST-07		Water and sediment	~334-gallons	

All analysis was coordinated and performed in accordance with the receiving facility's requirements. The following presents a summary of analytical results:

Water Sample Results

A single composite water sample was collected for analysis of benzene, lead, and flashpoint from UST-02, 05, 06 & 07 (sample ID: UST-Water-01):

- Lead was detected at a concentration of 4.77 ppm.
- Benzene was not identified above minimum laboratory quantitation levels (non-detect).
- The sample was determined to not be ignitable.

Based on the analytical results, water from within the tanks was handled as non-regulated/non-hazardous, petroleum impacted water. A copy of the laboratory analytical report is included as Attachment B-1 and a summary of the results is presented as Table 1.

Sludge Sample Results

Two (2) grab samples were collected for analysis of VOCs, toxicity characteristic leachate procedure (TCLP) RCRA metals, PCBs, and ignitability from UST-03 & 04, respectively:

Sample UST-03:

- Lead was detected in exceedance of federal TCLP regulatory limits (5.0 ppm) at a concentration of 434 ppm.
- Elevated concentrations of chlorinated VOCs (1,2-dichlorobenzene). Petroleum-related VOCs were also identified in the sludge sample at various concentrations.
- PCBs were also identified at concentrations ranging from 4.78 to 9.25 ppm.
- The sample was determined to not be ignitable.



Sample UST-04:

- Lead was detected in exceedance of federal TCLP regulatory limits (5.0 ppm) at a concentration of 203 ppm.
- Elevated concentrations of petroleum-related VOCs were identified in the sludge sample at various concentrations.
- PCBs were also identified at concentrations ranging from 4.78 to 9.25 ppm.
- The sample was determined to not be ignitable.

Based on the analytical results, sludge from within tanks UST-03 & 04 was characterized as hazardous for lead. The City applied for a United States Environmental Protection Agency (USEPA) site identification number in accordance with federal regulatory requirements for hazardous waste. USEPA ID No. NYR000261578 was issued, and the site was classified as a short-term, Large Quantity Generator (LQG) in accordance with the Resource Conservation and Recovery Act (RCRA).

It is noted that per the Toxic Substances Control Act (TSCA) concentrations of PCBs detected below 10 ppm preclude the need for handling and disposal as toxic waste. Sludge was not identified in UST-01, 03, or 04 which precluded additional sampling. A copy of the laboratory analytical report is included as Attachment B-2 and a summary of the results is presented as Table 2.

Following sampling, all tank access points were covered, and the excavation area was restored using excavated overburden material.

3.3 Backfill Import

On April 21, 2023, approximately 118-yards of fill material generated during storm drain rehabilitation at the City of Rochester's Central Vehicle Maintenance Facility (CVMF) complex, located at 945 Mount Read Boulevard, was imported to 536 Central Avenue for use as backfill. The material consisted primarily of soils and crushed stone, with lesser proportions of clean concrete and various RUCARBs.

Following characterization sampling and coordination with the NYSDEC, the City filed a 'Notification of Fill Material Reuse' (sample analytical results included) with the NYSDEC in accordance with 6 NYCRR Part 360.13. A detailed summary of backfill importation is included as Appendix B.

3.4 Tank Excavation

Overburden soils were excavated and staged in stockpiles segregated from potentially impacted material during tank exposure. Soils were continuously screened for VOCs using a MiniRAE 3000® PID by qualified Lu Engineers personnel. No visual or field monitoring evidence of impacted soils was observed during overburden removal.

Approximately 639-yards of clean overburden soils/fill were staged for backfill and restoration following tank closure.

3.5 Tank Closure

Following notification of the NYSDEC and RFD, tank closure consisted of the following elements:

- A combustible gas indicator (CGI) or an explosimeter and an oxygen meter were utilized to monitor the work area throughout tank closure.



- An appropriately permitted vacuum truck (subcontracted by KBH Environmental, LLC) was used to extract water from tanks UST-02 & UST-05 to 07. Approximately 1,200-gallons of water was extracted during closure work.
- Residual product was containerized via vacuum extraction using a drum vac in addition to manual removal methods (hand shoveling). A total of seven (7) drums of sludge, three (3) drums of solids, and one (1) drum of impacted poly was generated during closure work. Drums were immediately labeled in accordance with EPA requirements which included the following information:

Name: City of Rochester
Mailing Address: 30 Church Street Rm. 300B, Rochester, NY 14614
Contact: Jane Forbes
Phone Number: (585)428-7892
Site Address: 536 Central Avenue, Rochester, NY 14605
Accumulation Date: 05/16/2023
Manifest Tracking No. 016455119FLE
EPA Site ID No. NYR000261578
DOT Shipping Name: UN3077, Waste; environmentally
hazardous substances (non TSCA tank
sludge). Class 9

- Following removal of contents, tank atmospheres were inerted using dry ice until rendered safe by purging the flammable vapors from the confined space to below 5% of the lower explosive limit (LEL) and the oxygen level to below 7%.
- After inerting, removal, and containerization of all accessible liquids, all tanks with the exception of UST-03 and UST-04 were placed directly onto a flatbed trailer for off-site transportation and cleaning. Each tank was positioned with the vents aligned at the top of the tank (the 12 o'clock position) and blocked/chocked and secured in accordance with all applicable regulatory requirements to prevent rolling.
- Due to hazardous concentrations of lead identified within the sludge characterization samples, UST-03 & 04 were cleaned within the on-site excavation and were not removed until all accessible (at least 90%) of the contents had been manually removed as described in Section 3.6.

Photos of the tank closure process are included as Attachment C.

3.6 Tank Removal & Cleaning

After a safe atmosphere was confirmed, all remaining sludge and residue was removed from the interiors of UST-03 & 04 by vacuuming and sweeping with dry absorbents. Only trained and properly equipped personnel were permitted to enter the tank. Permit-required confined space entry procedures in accordance with 29 CFR 1910.120 were adhered to during all tank entries. It is noted that due to the hazardous waste classification of sludge, UST-03 & 04 remained within the tank pit and were not removed until interior cleaning was complete; UST-01, 02, & 05-07 were transported off-site for cleaning in accordance with applicable regulatory criteria.



The following table presents a summary of the physical condition of each tank following inspection after removal from the tank pit:

Assigned Tank ID	Tank Sizes	Condition
UST-01	48" x 10'9" (1,000-gallon)	Moderate corrosion and pitting/holes along the top side of the tank. Bottom and sides of the tank appeared slightly corroded but free of obvious holes.
UST-02		Moderate corrosion and pitting/holes along the top side of the tank. Bottom and sides of the tank appeared slightly corroded but free of obvious holes.
UST-03		Moderate corrosion and pitting/holes along the top side of the tank. Bottom and sides of the tank appeared slightly corroded. Suspected Geoprobe boring damage present on the south side of the tank. Refer to Photo No. 20 (Attachment C) for more detail.
UST-04		Moderate corrosion and pitting/holes along the top side of the tank. Bottom and sides of the tank appeared slightly corroded but free of obvious holes.
UST-05	48" x 5'5" (500-gallon)	Heavy corrosion and pitting/holes along the top side of the tank. Sides of the tank appeared highly corroded but free of obvious holes. Bottom has multiple corrosion pinholes.
UST-06		Heavy corrosion and pitting/holes along the top side of the tank. Bottom and sides of the tank appeared highly corroded but free of obvious holes.
UST-07		Heavy corrosion and pitting/holes along the top side of the tank. Bottom and sides of the tank appeared highly corroded but free of obvious holes.

The seven (7) cleaned tanks were recycled at Metalico Rochester, Inc. located at 1515 Scottsville Road, Rochester, NY 14623. Documentation of acceptance of the tanks by a qualified recycler is included as Attachment D-1.

Observations made after the tanks were removed from the excavation (refer to table above) suggest UST-03 was the tank damaged by the Geoprobe boring as described in Section 1.1. Due to the presence of hazardous sludge within UST-03, precautionary bottom samples were collected from directly underneath the tanks to evaluate whether a potential release occurred prior to expanding the excavation limits.

Sample Results

Three (3) grab samples were collected for analysis of TCL VOCs, RCRA metals, TCLP RCRA metals, and PCBs from directly beneath UST-01, 03 & 06.

Sample T-1:

- Acetone was detected in exceedance of Unrestricted Use criteria at a concentration of 0.117 ppm.
- No other exceedances of NYSDEC Part 375 and/or CP-51 Soil Cleanup Objectives (SCOs) were observed.

Sample T-3:

- Lead was detected in exceedance of Unrestricted Use criteria at a concentration of 143 ppm; TCLP lead results were not identified above minimum laboratory quantitation levels (non-detect).



- Acetone, m/p-xylene, and o-xylene were detected in exceedance of Unrestricted Use criteria.
- No other exceedances of NYSDEC Part 375 and/or CP-51 SCOs were observed.

Sample T-6:

- Acetone was detected in exceedance of Unrestricted Use criteria at a concentration of 0.112 ppm.
- No other exceedances of NYSDEC Part 375 and/or CP-51 SCOs were observed.

No exceedances of federal hazardous waste regulatory levels were observed in the above referenced analytical results. The results do not suggest the release of hazardous materials following damage to UST-03. Acetone levels identified during sampling are presumed to be indicative of background soil conditions of the urban site setting (and/or laboratory artifact), as opposed to a contaminant from tank contents.

A copy of the laboratory analytical report is included as Attachment B-3 and a summary of the results is presented as Table 3.

4.0 Excavation of Contaminated Soils

In accordance with the NYSDEC-approved CAP, petroleum-contaminated soils (indicated by physical observations, PID readings < 25 ppm, and, as directed by the City), were removed from the excavation and live-loaded in accordance with pre-profiling and arrangements made with the receiving facility. Clean, non-contaminated soils (exhibiting < 25 ppm and no visual or other indications), were segregated from contaminated material for re-use as backfill. Groundwater was not encountered during tank excavation

Per City correspondence with the NYSDEC, soil boring samples collected during the December 2022 subsurface investigation that did not indicate evidence of impairment or exceedances of applicable regulatory criteria, were acceptable for use to delineate the lateral extent of the excavation area. The approximate final dimensions of the excavation were 40-feet by 40-feet with a maximum depth of 16-feet bgs.

A total of 331.77-tons (approximately 220-yards) of petroleum-contaminated soils were disposed of at Mill Seat Landfill as non-hazardous waste under profile #126492NY. It is noted that an excess of approximately 33.5-yards of soil was imported from CVMF for use as backfill, which accounts for 50.18 of the 331.77-tons of material disposed under profile #126492NY.

Disposal records including weight tickets and trucking manifests are included as Attachment D-2.

4.1 Confirmatory Sampling

Sample frequency was conducted based on correspondence with the NYSDEC and City. In addition to previous subsurface characterization samples used to delineate the maximum extent of presumed impacts, four (4) confirmatory samples, including two (2) excavation bottom samples, and two (2) sidewall samples were collected for laboratory analysis of CP-51 VOCs.



In accordance with applicable NYSDEC protocols, all samples were stored on ice until relinquished for laboratory analysis at Paradigm Environmental Inc. a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) analytical laboratory.

Confirmatory Sample Results

Sample ID: Bottom-Tanks

Was collected from the excavation bottom from directly underneath former UST-03 & 04 at an approximate depth of 15.5 to 16-feet bgs.

- No exceedances of NYSDEC Part 375 and/or CP-51 SCOs were observed.

Sample ID: Bottom-SW

Was collected from the excavation bottom downgradient of the former USTs at an approximate depth of 13.5 to 14-feet bgs.

- No exceedances of NYSDEC Part 375 and/or CP-51 Soil Cleanup Objectives (SCOs) were observed.

Sample ID: Sidewall-W

Was collected from the western excavation sidewall at an approximate depth of 11 to 12-feet bgs.

- No exceedances of NYSDEC Part 375 and/or CP-51 Soil Cleanup Objectives (SCOs) were observed.

Sample ID: Sidewall-S

Was collected from the southern excavation sidewall at an approximate depth of 13 to 14-feet bgs.

- No exceedances of NYSDEC Part 375 and/or CP-51 Soil Cleanup Objectives (SCOs) were observed.

A copy of the laboratory analytical report is included as Attachment D-4 and a summary of the results is presented as Table 4. It is noted that groundwater was not encountered throughout the excavation and UST removal process, and therefore, sampling/evaluation was not conducted as part of this project.

6.0 Remedial Activities

Prior to backfilling, granular Regenes Inc. ORC[®] was spread along the side walls and bottom of the excavation to enhance microbial degradation of potential inaccessible residual petroleum impacts. ORC[®] is an engineered, oxygen release compound designed specifically for enhanced, in-situ aerobic bioremediation of petroleum hydrocarbons in groundwater or saturated soils. Residual impacted soils in the area will naturally attenuate, enhanced by the application of various remedial agents; refer to the ORC[®] spec sheet included as Attachment E.

A total of 640-pounds of ORC[®] was spread throughout the excavation area at varying depths for targeted remediation of residual petroleum-impacted soils.

7.0 Backfill & Restoration

Upon completion of UST removal and confirmatory sampling, excavated areas were backfilled with stockpiled clean soils, followed by a minimum of 18-inches of certified clean, imported crushed stone. Stone was imported from Iroquois Stone, a NYSDOT-approved source (Facility ID H0308) located at 5251 Sweden-Walker Road, in the Town of Brockport, NY. This imported stone meets the requirements set forth in DER-10, Section 5.4(e), and all backfilling was conducted in 6-inch lifts.



8.0 Transportation & Disposal of Hazardous Waste

On June 8, 2023, Sun Environmental Corp. an appropriately qualified and licensed handler and transporter of hazardous waste was retained by Lu Engineers to facilitate transportation of eleven (11) drums of hazardous sludge to Cycle Chem Inc., an appropriately permitted receiving facility located in Lewisberry, PA.

Transportation of waste was performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers were appropriately licensed and trucks properly placarded. Appropriate shipping documents were prepared for each waste shipment and reviewed by COR DEQ for signature.

9.0 Summary & Conclusions

The following table presents a summary of various waste and associated quantities generated during this project:



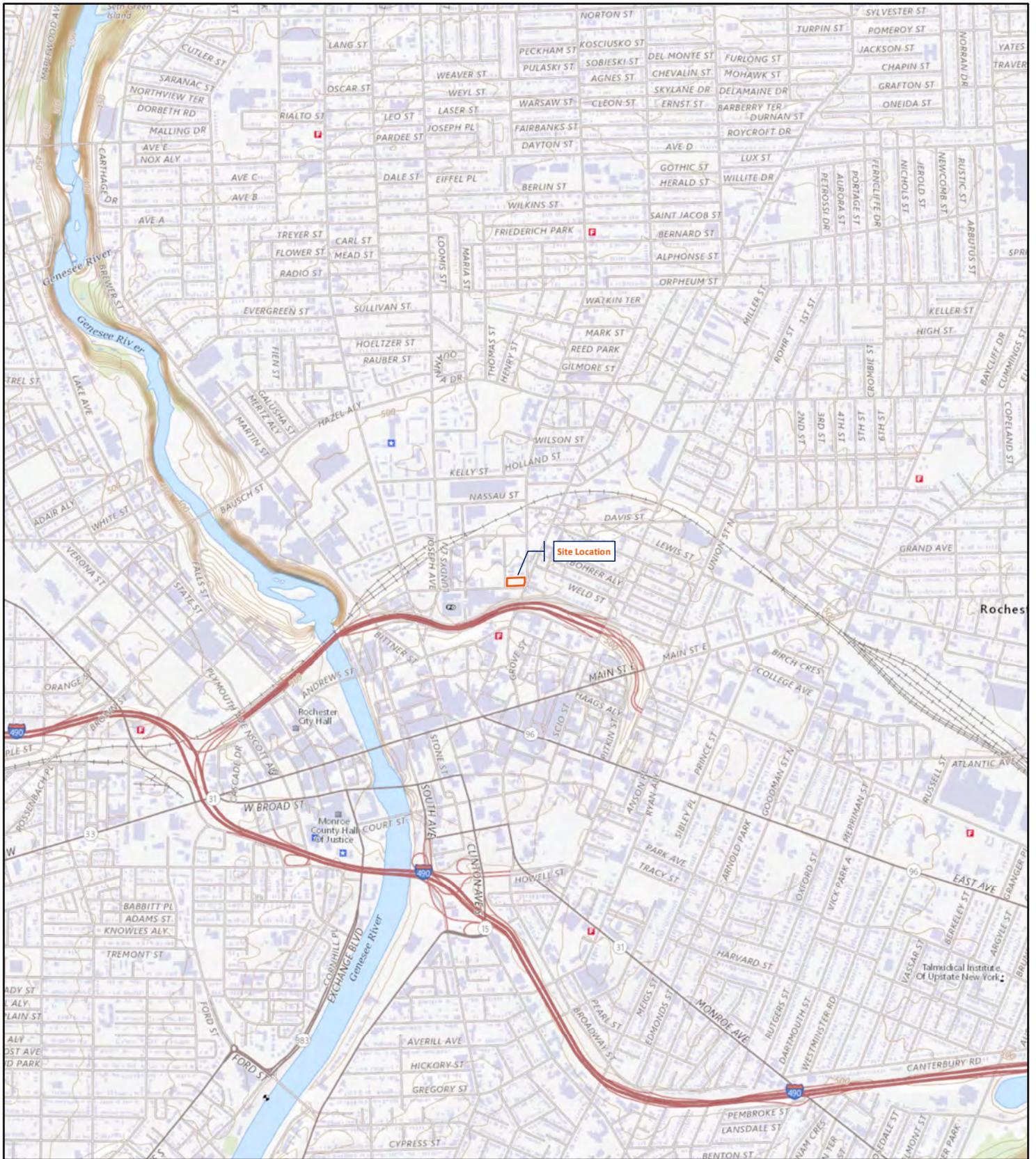
Waste Media	Summary	Disposal Documentation
UST Scrap Metal	<p>The excavated USTs, piping, and related appurtenances were recycled as part of tank closure.</p> <p><u>Transported By:</u> Trec Environmental</p> <p><u>Disposal Facility:</u> Metalico Rochester, Inc. 1515 Scottsville Road, Rochester, NY</p>	Refer to Attachment D-1
Non-hazardous petroleum-impacted soils/RUCARBS	<p>Soils/fill generated during excavation of the USTs with PID readings >25 ppm, as well as excess imported backfill material from CVMF.</p> <p><u>Transported By:</u> MJ Dreher Trucking, Inc. City of Rochester Water Bureau</p> <p><u>Disposal Facility:</u> Mill Seat Landfill 303 Brew Road, Bergen, NY</p> <p><u>Disposal Quantities:</u> Excavated Soils: 281.52-tons Excess Imported Soils: 50.18-tons</p>	Refer to Attachment D-2
Non-hazardous petroleum-impacted water	<p>Water from within UST-02, 05, 06 & 07 generated during vacuum extraction conducted as part of tank closure.</p> <p><u>Transported By:</u> KBH Environmental</p> <p><u>Disposal Facility:</u> Covanta Environmental Solutions 120 Dry Run Road, Oriskany, NY</p> <p><u>Disposal Quantity:</u> Water: 1,228-gallons</p>	Refer to Attachment D-3
Hazardous non-TSCA lead-impacted sludge	<p>Sludge from within UST-03 & 04 generated during vacuum extraction conducted as part of tank closure.</p> <p><u>Transported By:</u> Sun Environmental Corp.</p> <p><u>Disposal Facility:</u> Cycle Chem, Inc. 550 Industrial Drive, Lewisberry, PA</p> <p><u>Disposal Quantity:</u> Sludge: Seven (x7) 55-gallon drums Solids/Sludge: Three (x3) 55-gallon drums Sludge-impacted poly/waste: One (x1) 55-gallon drum</p>	Refer to Attachment D-4



Final site restoration was completed on May 24, 2023. ORC was strategically installed throughout the backfill process for targeted mitigation of residual impacted soils along the western and southern sidewalls of the excavation.

Residual petroleum impacts will continue to attenuate naturally with assistance from the installed remedial agents; downward percolation of oxygenated rainwater and snow melt will enhance microbial degradation of any residual petroleum impacts. It is also noted that the proposed redevelopment of the site includes a paved parking lot overtop the former USTs and excavated area. The potential for human exposure to residual impacts is considered minimal.





Scale 1: 24,000

Contour Interval: 10-feet

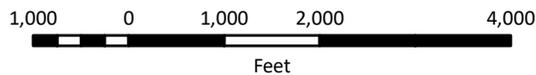
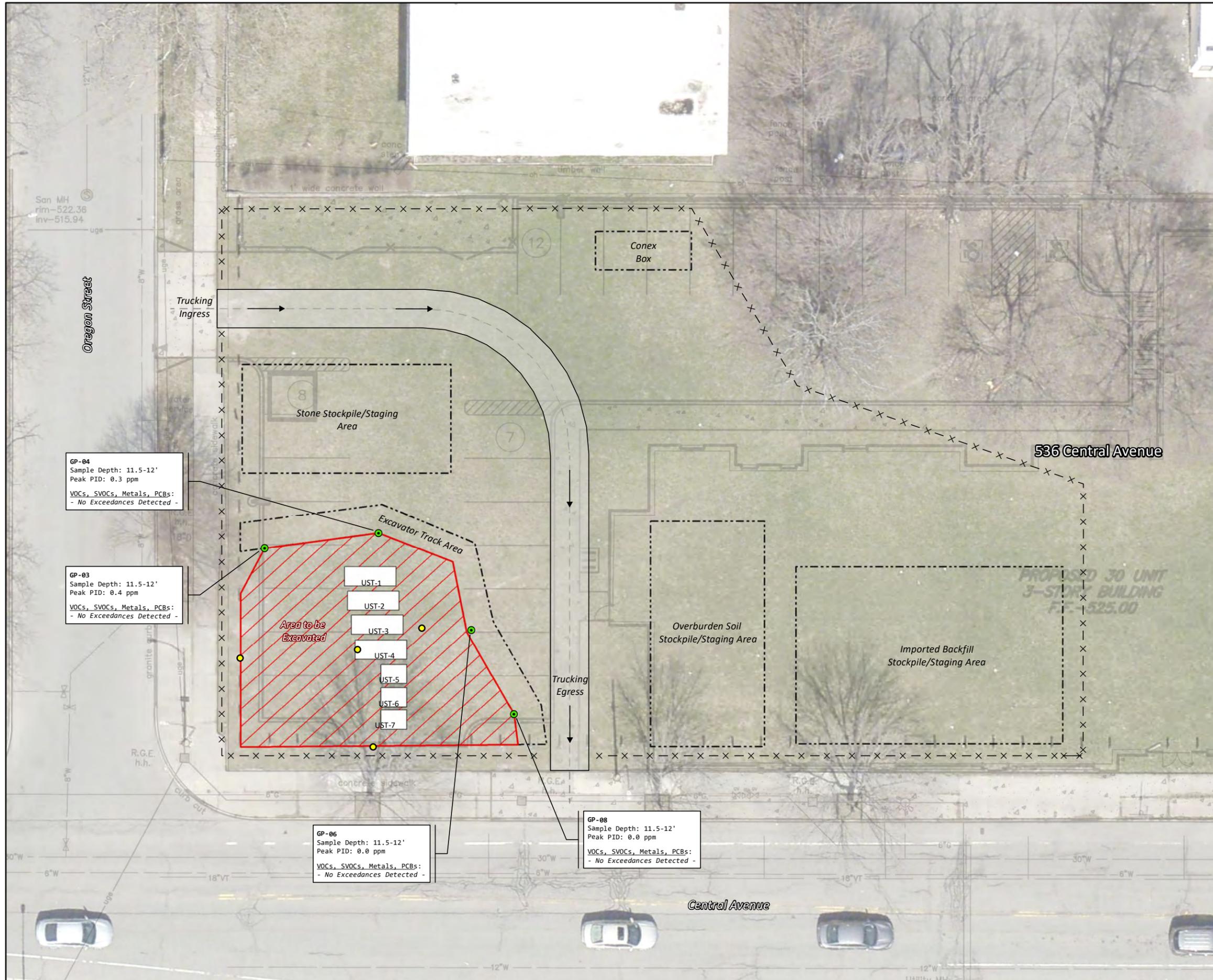
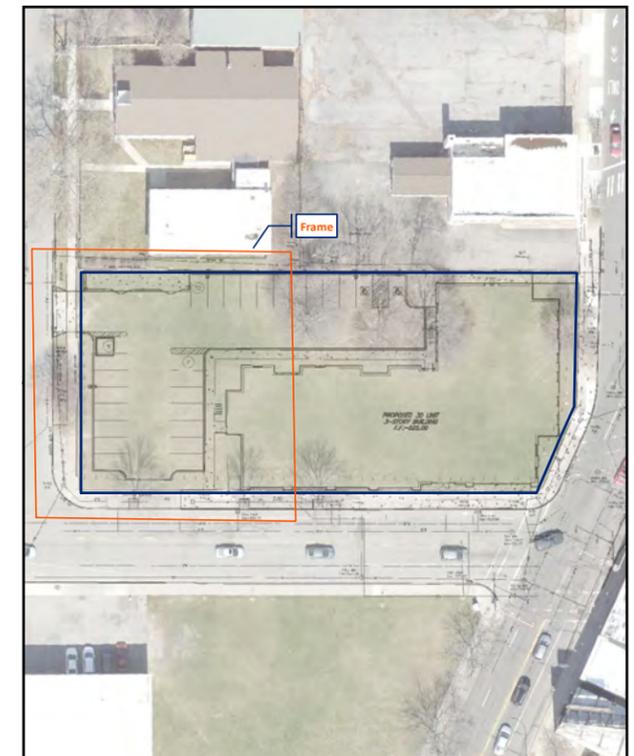


Figure 1. Site Location Map
 536 Central Avenue
 City of Rochester, NY



DATE: January 2023
PROJECT #: 4229-57
DRAWN/CHECKED: BGS/GLA
DATA SOURCE: ESRI Online Basemap



GP-04
 Sample Depth: 11.5-12'
 Peak PID: 0.3 ppm
 VOCs, SVOCs, Metals, PCBs:
 - No Exceedances Detected -

GP-03
 Sample Depth: 11.5-12'
 Peak PID: 0.4 ppm
 VOCs, SVOCs, Metals, PCBs:
 - No Exceedances Detected -

GP-06
 Sample Depth: 11.5-12'
 Peak PID: 0.0 ppm
 VOCs, SVOCs, Metals, PCBs:
 - No Exceedances Detected -

GP-08
 Sample Depth: 11.5-12'
 Peak PID: 0.0 ppm
 VOCs, SVOCs, Metals, PCBs:
 - No Exceedances Detected -

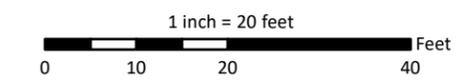
Figure 2.
 Remedial Implementation and Staging Plan

Project:
 City of Rochester
 536 Central Avenue UST Closure

Location:
 536 Central Avenue
 City of Rochester, Monroe County, NY



- Legend**
- Site Boundary
 - Proposed Fence
 - Proposed Confirmatory Sample
 - Subsurface Characterization Sample to Be Used As Final Confirmatory Sample
 - Approximate Excavation Extent
 - Approximate UST Location



Drawn/Checked By: BGS/GLA
 Lu Project Number: 4229-57
 Date: July 2023

Notes:

1. Coordinate System: NAD 1983 State Plane NY West FIPS 3103 Feet
2. Orthoimagery (April 2021) downloaded from Pictometry, topo from Monroe County GIS
3. Scale: 1:240 (original document size 11"x17")

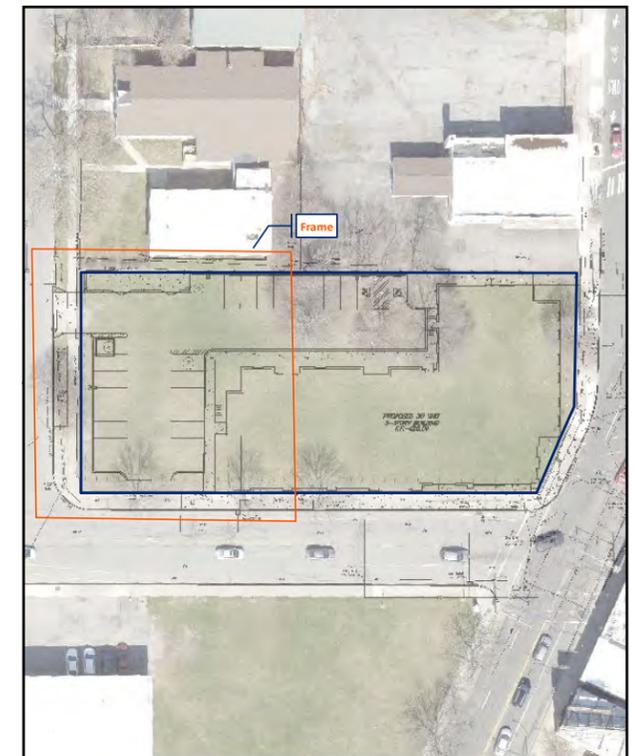


Figure 3.
 Precautionary Excavation Bottom Sample Results

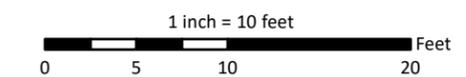
Project:
 City of Rochester
 536 Central Avenue UST Closure

Location:
 536 Central Avenue
 City of Rochester, Monroe County, NY

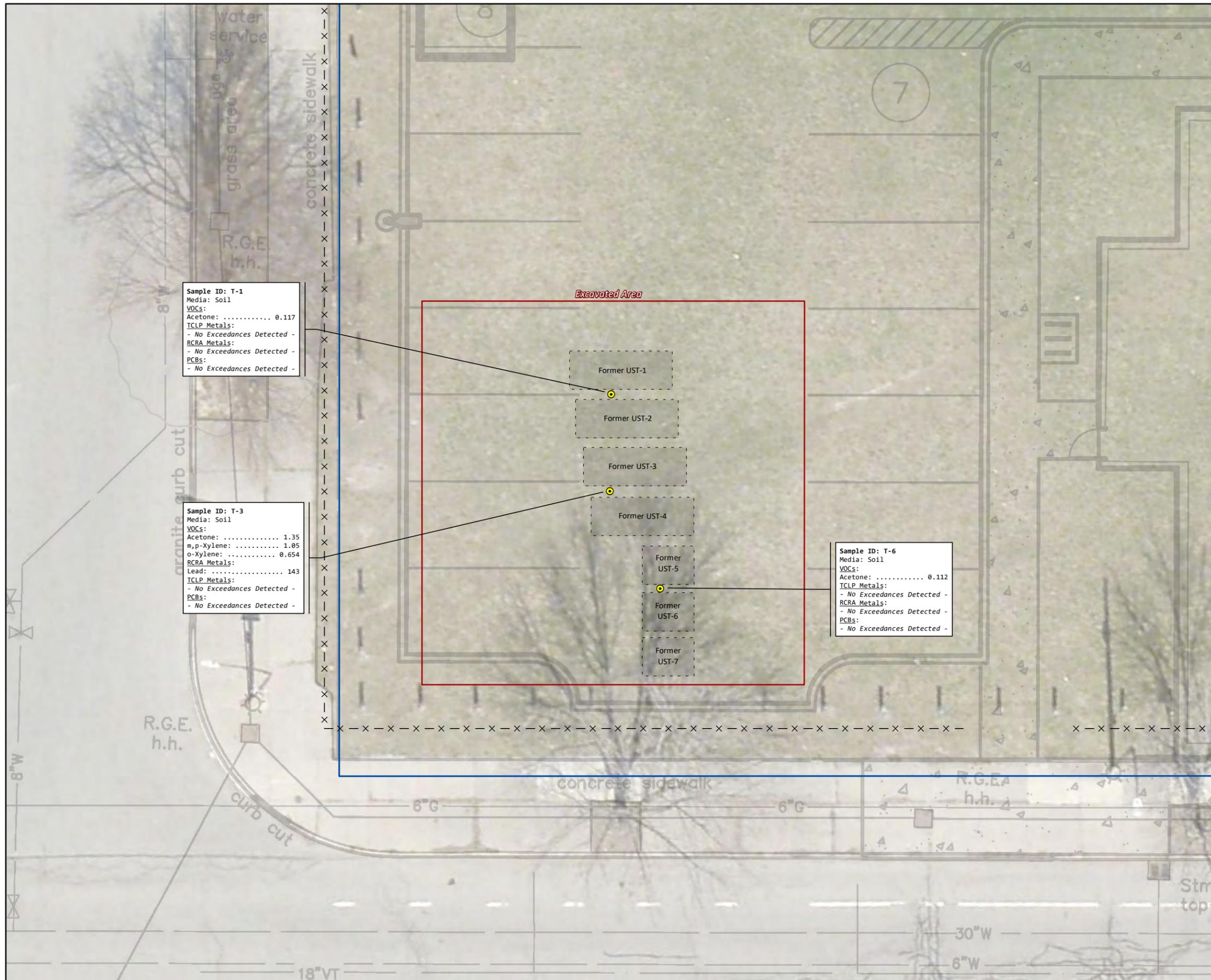


Legend

- Site Boundary
- × — × Fence
- Tank Bottom Sample
- Approximate Excavation Extent
- Former UST Location



Drawn/Checked By: BGS/GLA
Lu Project Number: 4229-57
Date: July 2023
Notes:
1. Coordinate System: NAD 1983 State Plane NY West FIPS 3103 Feet
2. Orthoimagery (April 2021) downloaded from Pictometry, topo from Monroe County GIS
3. Scale: 1:240 (original document size 11"x17")



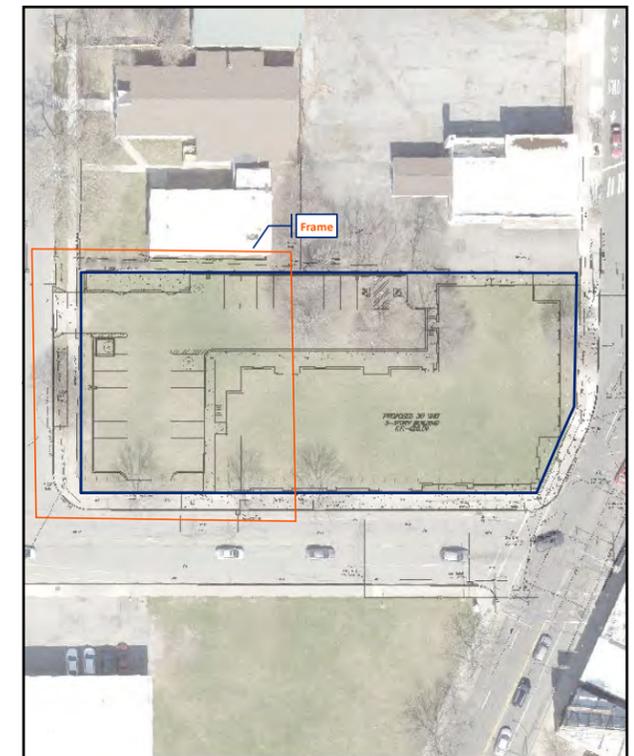


Figure 4.
 Confirmatory Sample Results

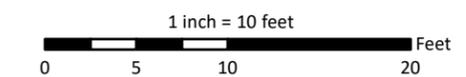
Project:
 City of Rochester
 536 Central Avenue UST Closure

Location:
 536 Central Avenue
 City of Rochester, Monroe County, NY



Legend

- Site Boundary
- × — × Proposed Fence
- Proposed Confirmatory Sample
- Subsurface Characterization Sample to Be Used As Final Confirmatory Sample
- Approximate Excavation Extent
- Approximate UST Location



Drawn/Checked By: BGS/GLA
Lu Project Number: 4229-57
Date: July 2023
Notes:
1. Coordinate System: NAD 1983 State Plane NY West FIPS 3103 Feet
2. Orthoimagery (April 2021) downloaded from Pictometry, topo from Monroe County GIS
3. Scale: 1:120 (original document size 11"x17")

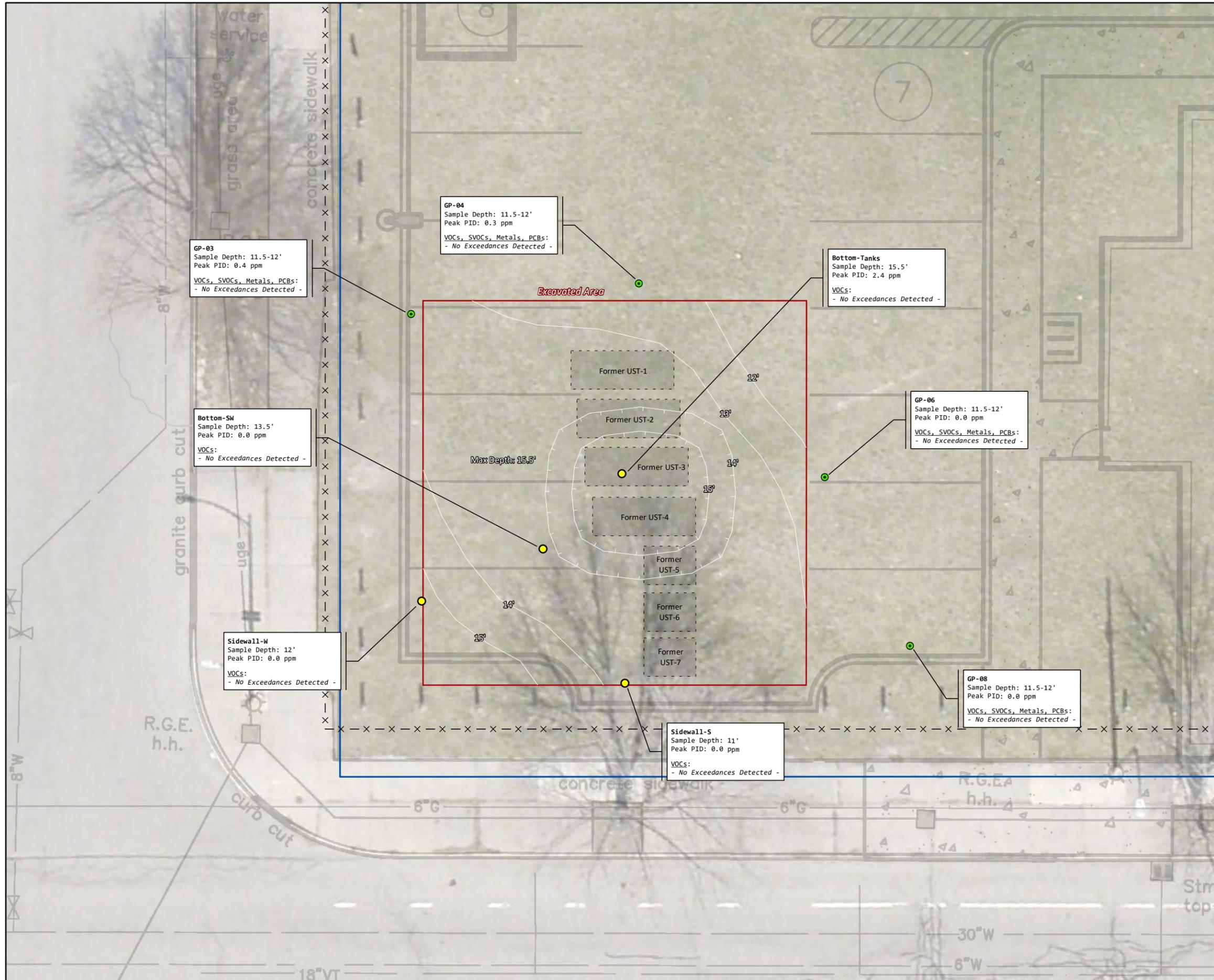


Table 1 – Water Sample Analytical Results

City of Rochester - 536 Central Avenue Tank Closure

Soil Sample Analytical Results Detected Parameters¹:	Sample ID:	UST-01	
	Sample Type:	Water	
	Date:	4/20/2023	
EPA 8260 - VOCs	Regulatory Limit	Result	Q
	40 CFR 261.24		
Benzene	0.5	<	0.001
EPA 6010 - Metals			
Lead	5.0		4.77
EPA 1010-Flashpoint			
Temperature (°C)	--	>	70.0

Notes:

1 - All values presented in parts per million (ppm)

2 - 40 Code of Federal Regulations Section 261.24

< Substance not identified above the minimum laboratory quantitation limit

 Exceeds Regulatory Limit

Table 2 – Sludge Sample Analytical Results

City of Rochester - 536 Central Avenue Tank Closure

Soil Sample Analytical Results Detected Parameters ¹ :	Sample ID:	UST-03			UST-04		
	Sample Type:	Sludge			Sludge		
	Date:	4/20/2023			4/20/2023		
EPA 8260 - TCL VOCs	Regulatory Limit	Result	Q	Dilution (1/20)	Result	Q	Dilution (1/20)
	40 CFR 261.24						
1,1,1-Trichloroethane	--	<	1.46	--	<	11.6	--
1,1,2,2-Tetrachloroethane	--	<	1.46	--	<	11.6	--
1,1,2-Trichloroethane	--	<	1.46	--	<	11.6	--
1,1-Dichloroethane	--	<	1.46	--	<	11.6	--
1,1-Dichloroethene	0.7	<	1.46	--	<	11.6	--
1,2,3-Trichlorobenzene	--	<	3.66	--	<	29.0	--
1,2,4-Trichlorobenzene	--	<	3.66	--	<	29.0	--
1,2-Dibromo-3-Chloropropane	--	<	7.32	--	<	57.9	--
1,2-Dibromoethane	--	<	1.46	--	<	11.6	--
1,2-Dichlorobenzene	--	<	1.84	0.092	<	11.6	--
1,2-Dichloroethane	0.5	<	1.46	--	<	11.6	--
1,2-Dichloropropane	--	<	1.46	--	<	11.6	--
1,3-Dichlorobenzene	--	<	1.46	--	<	11.6	--
1,4-Dichlorobenzene	7.5	<	1.46	--	<	11.6	--
1,4-Dioxane	--	<	7.32	--	<	57.9	--
2-Butanone	200	<	7.32	--	<	57.9	--
2-Hexanone	--	<	3.66	--	<	29.0	--
4-Methyl-2-pentanone	--	<	3.66	--	<	29.0	--
Acetone	--	<	7.32	--	<	57.9	--
Benzene	0.5	<	1.46	--	<	11.6	--
Bromochloromethane	--	<	3.66	--	<	29.0	--
Bromodichloromethane	--	<	1.46	--	<	11.6	--
Bromoform	--	<	3.66	--	<	29.0	--
Bromomethane	--	<	1.46	--	<	11.6	--
Carbon disulfide	--	<	1.46	--	<	11.6	--
Carbon Tetrachloride	0.5	<	1.46	--	<	11.6	--
Chlorobenzene	100	<	1.46	--	<	11.6	--
Chloroethane	--	<	1.46	--	<	11.6	--
Chloroform	6.0	<	1.46	--	<	11.6	--
Chloromethane	--	<	1.46	--	<	11.6	--
cis-1,2-Dichloroethene	--	<	1.46	--	<	11.6	--
cis-1,3-Dichloropropene	--	<	1.46	--	<	11.6	--
Cyclohexane	--	<	7.32	--	<	57.9	--
Dibromochloromethane	--	<	1.46	--	<	11.6	--
Dichlorodifluoromethane	--	<	1.46	--	<	11.6	--
Ethylbenzene	--	<	11.5	0.58	<	33.7	1.69
Freon 113	--	<	1.46	--	<	11.6	--
Isopropylbenzene	--	<	6.05	0.30	<	18.8	0.94
m,p-Xylene	--	<	122	6.10	<	377	18.9
Methyl acetate	--	<	1.46	--	<	11.6	--
Methyl tert-butyl Ether	--	<	1.46	--	<	11.6	--
Methylcyclohexane	--	<	21.2	1.06	<	65.9	3.30
Methylene chloride	--	<	3.66	--	<	29.0	--
o-Xylene	--	<	65.3	3.27	<	262	13.1
Styrene	--	<	3.66	--	<	29.0	--
Tetrachloroethene	0.7	<	1.46	--	<	11.6	--
Toluene	--	<	14.5	0.73	<	59.8	2.99
trans-1,2-Dichloroethene	--	<	1.46	--	<	11.6	--
trans-1,3-Dichloropropene	--	<	1.46	--	<	11.6	--
Trichloroethene	0.5	<	1.46	--	<	11.6	--
Trichlorofluoromethane	--	<	1.46	--	<	11.6	--
Vinyl chloride	0.2	<	1.46	--	<	11.6	--

Notes:

1 - All values presented in parts per million (ppm)

2 - 40 Code of Federal Regulations Section 261.24

< Substance not identified above the minimum laboratory quantitation limit

 Exceeds Regulatory Limit

Table 2 – Sludge Sample Analytical Results

City of Rochester - 536 Central Avenue Tank Closure

Soil Sample Analytical Results Detected Parameters ¹ :	Sample ID:	UST-03			UST-04		
	Sample Type:	Sludge			Sludge		
	Date:	4/20/2023			4/20/2023		
EPA 6010 - TCLP RCRA Metals	Regulatory Limit	Result	Q	Dilution (1/20)	Result	Q	Dilution (1/20)
	40 CFR 261.24						
Arsenic	5.0	<	0.50	--	<	0.50	--
Barium	100		10.2	--		11.9	--
Cadmium	1.0		0.645	--		0.164	--
Chromium	5.0	<	0.50	--	<	0.50	--
Lead	5.0		434	--		203	--
Selenium	1.0	<	0.20	--	<	0.20	--
Silver	5.0	<	0.50	--	<	0.50	--
Mercury	0.2	<	0.002	--	<	0.002	--
EPA 8082 - Total PCBs							
PCB-1016	--	<	1.35	--	<	2.07	--
PCB-1221	--	<	1.35	--	<	2.07	--
PCB-1232	--	<	1.35	--	<	2.07	--
PCB-1242	--	<	1.35	--	<	2.07	--
PCB-1248	--		4.78	0.24		6.08	0.30
PCB-1254	--	<	1.35	--	<	2.07	--
PCB-1260	--		9.25	0.46		6.79	0.34
PCB-1262	--	<	1.35	--	<	2.07	--
PCB-1268	--	<	1.35	--	<	2.07	--
EPA 1030-Ignitability							
Temperature (°C)	--		Not Ignitable	--		Not Ignitable	--

Notes:

1 - All values presented in parts per million (ppm)

2 - 40 Code of Federal Regulations Section 261.24

< Substance not identified above the minimum laboratory quantitation limit

Exceeds Regulatory Limit

Table 3 – Precautionary Bottom Sample Analytical Results

City of Rochester - 536 Central Avenue Tank Closure

Soil Sample Analytical Results Detected Parameters:	Sample ID:						T-1	T-3	T-6			
	Sample Type:						Soil	Soil	Soil			
	Date:						5/17/2023	5/17/2023	5/17/2023			
	NYSDEC Part 375 SCOs ²						Result	Q	Result	Q	Result	Q
EPA 8260 - TCL VOCs ¹	Unrestricted	Residential	Restricted Res.	Commercial	Industrial	Prot. of GW						
1,1,1-Trichloroethane	0.68	100	100	500	1,000	0.68	<	0.00725	<	0.0964	<	0.00672
1,1,2,2-Tetrachloroethane	--	--	--	--	--	--	<	0.00725	<	0.0964	<	0.00672
1,1,2-Trichloroethane	--	--	--	--	--	--	<	0.00725	<	0.0964	<	0.00672
1,1-Dichloroethane	0.27	19	26	240	480	0.27	<	0.00725	<	0.0964	<	0.00672
1,1-Dichloroethene	0.3	100.0	100.0	500	1,000	0.33	<	0.00725	<	0.0964	<	0.00672
1,2,3-Trichlorobenzene	--	--	--	--	--	--	<	0.0181	<	0.241	<	0.0168
1,2,4-Trichlorobenzene	--	--	--	--	--	--	<	0.0181	<	0.241	<	0.0168
1,2-Dibromo-3-Chloropropane	--	--	--	--	--	--	<	0.0363	<	0.482	<	0.0336
1,2-Dibromoethane	--	--	--	--	--	--	<	0.00725	<	0.0964	<	0.00672
1,2-Dichlorobenzene	1.1	100	100	500	1,000	1.1	<	0.00725	<	0.0964	<	0.00672
1,2-Dichloroethane	0.02	2.3	3.1	30	60	0.02	<	0.00725	<	0.0964	<	0.00672
1,2-Dichloropropane	--	--	--	--	--	--	<	0.00725	<	0.0964	<	0.00672
1,3-Dichlorobenzene	2.4	17	49	280	560	2.4	<	0.00725	<	0.0964	<	0.00672
1,4-Dichlorobenzene	1.8	9.8	13	130	250	1.8	<	0.00725	<	0.0964	<	0.00672
1,4-Dioxane	0.1	9.9	13	130	250	0.1	<	0.0363	<	0.482	<	0.0336
2-Butanone	0.12	100	100	500	1,000	0.12	<	0.0363	<	0.482	<	0.0336
2-Hexanone	--	--	--	--	--	--	<	0.0181	<	0.241	<	0.0168
4-Methyl-2-pentanone	--	--	--	--	--	--	<	0.0181	<	0.241	<	0.0168
Acetone	0.05	100	100	500	1,000	0.05	<	0.117	<	1.35	<	0.112
Benzene	0.06	2.9	4.8	44	89	0.06	<	0.00725	<	0.0964	<	0.00672
Bromochloromethane	--	--	--	--	--	--	<	0.0181	<	0.241	<	0.0168
Bromodichloromethane	--	--	--	--	--	--	<	0.00725	<	0.0964	<	0.00672
Bromoform	--	--	--	--	--	--	<	0.0181	<	0.241	<	0.0168
Bromomethane	--	--	--	--	--	--	<	0.00725	<	0.0964	<	0.00672
Carbon disulfide	--	--	--	--	--	--	<	0.00725	<	0.0964	<	0.00672
Carbon Tetrachloride	0.76	1.4	2.4	22	44	0.76	<	0.00725	<	0.0964	<	0.00672
Chlorobenzene	1.1	100	100	500	1,000	1.1	<	0.00725	<	0.0964	<	0.00672
Chloroethane	--	--	--	--	--	--	<	0.00725	<	0.0964	<	0.00672
Chloroform	0.37	10	49	350	700	0.37	<	0.00725	<	0.0964	<	0.00672
Chloromethane	--	--	--	--	--	--	<	0.00725	<	0.0964	<	0.00672
cis-1,2-Dichloroethene	0.25	59	100	500	1,000	0.25	<	0.00725	<	0.0964	<	0.00672
cis-1,3-Dichloropropene	--	--	--	--	--	--	<	0.00725	<	0.0964	<	0.00672
Cyclohexane	--	--	--	--	--	--	<	0.0363	<	2.82	<	0.0336
Dibromochloromethane	--	--	--	--	--	--	<	0.00725	<	0.0964	<	0.00672
Dichlorodifluoromethane	--	--	--	--	--	--	<	0.00725	<	0.0964	<	0.00672
Ethylbenzene	1.0	30	41	390	780	1.0	<	0.00725	<	0.336	<	0.00672
Freon 113	--	--	--	--	--	--	<	0.00725	<	0.0964	<	0.00672
Isopropylbenzene	--	--	--	--	--	--	<	0.00725	<	0.0964	<	0.00672
m,p-Xylene	0.26	100	100	500	1,000	1.6	<	0.00725	<	1.05	<	0.00672
Methyl acetate	--	--	--	--	--	--	<	0.00725	<	0.0964	<	0.00672
Methyl tert-butyl Ether	0.93	62	100	500	1,000	0.93	<	0.00725	<	0.0964	<	0.00672
Methylcyclohexane	--	--	--	--	--	--	<	0.00725	<	3.93	<	0.00672
Methylene chloride	0.05	51	100	500	1,000	0.05	<	0.0181	<	0.241	<	0.0168
o-Xylene	0.26	100	100	500	1,000	1.6	<	0.00725	<	0.654	<	0.00672
Styrene	--	--	--	--	--	--	<	0.0181	<	0.241	<	0.0168
Tetrachloroethene	1.3	5.5	19	150	300	1.3	<	0.00725	<	0.0964	<	0.00672
Toluene	0.7	100	100	500	1,000	0.7	<	0.00725	<	0.0964	<	0.00672
trans-1,2-Dichloroethene	0.19	100	100	500	1,000	0.19	<	0.00725	<	0.0964	<	0.00672
trans-1,3-Dichloropropene	--	--	--	--	--	--	<	0.00725	<	0.0964	<	0.00672
Trichloroethene	0.47	10	21	200	400	0.47	<	0.00725	<	0.0964	<	0.00672
Trichlorofluoromethane	--	3	--	--	--	--	<	0.00725	<	0.0964	<	0.00672
Vinyl chloride	--	--	--	--	--	--	<	0.00725	<	0.0964	<	0.00672

Notes:

1 - All values presented in milligram per kilogram (mg/kg) and/or parts per million (ppm)

2 - 6 NYCRR Part 375 Soil Cleanup Objectives

< Substance not identified above the minimum laboratory quantitation limit

	Exceeds Unrestricted Use SCOs
	Exceeds Residential Use SCOs
	Exceeds Restricted Residential Use SCOs
	Exceeds Commercial Use SCOs
	Exceeds Industrial Use SCOs

Table 3 – Precautionary Bottom Sample Analytical Results

City of Rochester - 536 Central Avenue Tank Closure

Soil Sample Analytical Results Detected Parameters:	Sample ID:						T-1	T-3	T-6			
	Sample Type:						Soil	Soil	Soil			
	Date:						5/17/2023	5/17/2023	5/17/2023			
EPA 6010 - RCRA Metals ¹	Part 375 SCOs ⁴						Result	Q	Result	Q	Result	Q
	Unrestricted	Residential	Restricted Res.	Commerical	Industrial	Prot. of GW						
Arsenic	13	16	16	16	16	16	1.81		3.13		3.87	
Barium	350	350	400	400	10,000	820	80.1		30.7		37.5	
Cadmium	2.5	2.5	4.3	9.3	60	7.5	< 0.295	<	0.259	<	0.272	
Chromium	30	36	180	1,500	6,800	--	4.61	<	7.42	<	8.73	
Lead	63	400	400	1,000	3,900	450	56.4		143		11.3	
Selenium	3.9	36	180	1,500	6,800	4.0	< 1.18	<	1.04	<	1.09	
Silver	2.0	36	180	1,500	6,800	8.3	< 0.589	<	0.52	<	0.544	
Mercury	0.18	0.81	0.81	2.8	5.7	0.73	0.0517		0.00975		0.00854	
EPA 6010 - TCLP RCRA Metals ¹	Regulatory Limit ³						Result	Q	Result	Q	Result	Q
	40 CFR 261.24											
Arsenic	5.0						< 0.50	<	0.50	<	0.50	<
Barium	100						0.506		1.20		0.50	
Cadmium	1.0						< 0.025	<	0.025	<	0.025	<
Chromium	5.0						< 0.50	<	0.50	<	0.50	<
Lead	5.0						0.514	<	0.50	<	0.50	<
Selenium	1.0						< 0.20	<	0.20	<	0.20	<
Silver	5.0						< 0.50	<	0.50	<	0.50	<
Mercury	0.2						< 0.0020	<	0.002	<	0.002	<
EPA 8082 - Total PCBs ¹	Part 375 SCOs ⁴						Result	Q	Result	Q	Result	Q
	Unrestricted	Residential	Restricted Res.	Commerical	Industrial	Prot. of GW						
PCB-1016	0.1	1.0	1.0	1.0	25	3.2	< 0.132	<	0.168	<	0.177	
PCB-1221	0.1	1.0	1.0	1.0	25	3.2	< 0.132	<	0.168	<	0.177	
PCB-1232	0.1	1.0	1.0	1.0	25	3.2	< 0.132	<	0.168	<	0.177	
PCB-1242	0.1	1.0	1.0	1.0	25	3.2	< 0.132	<	0.168	<	0.177	
PCB-1248	0.1	1.0	1.0	1.0	25	3.2	< 1.132	<	0.168	<	0.177	
PCB-1254	0.1	1.0	1.0	1.0	25	3.2	< 2.132	<	0.168	<	0.177	
PCB-1260	0.1	1.0	1.0	1.0	25	3.2	< 3.132	<	0.168	<	0.177	
PCB-1262	0.1	1.0	1.0	1.0	25	3.2	< 0.132	<	0.168	<	0.177	
PCB-1268	0.1	1.0	1.0	1.0	25	3.2	< 0.132	<	0.168	<	0.177	

Notes:

1 - All values presented in miligram per kilogram (mg/kg) and/or parts per million (ppm)

2 - All values presented in miligram per liter (mg/L) and/or parts per million (ppm)

3 - 40 Code of Federal Regulations Section 261.24

4 - 6 NYCRR Part 375 Soil Cleanup Objectives

< Substance not identified above the minimum laboratory quantitation limit

	Exceeds Unrestricted Use SCOs
	Exceeds Residential Use SCOs
	Exceeds Restricted Residential Use SCOs
	Exceeds Commercial Use SCOs
	Exceeds Industrial Use SCOs
	Exceeds Hazardous Waste Regulatory Limit

Table 4 – Confirmatory Sample Analytical Results
 City of Rochester - 536 Central Avenue Tank Closure

Soil Sample Analytical Results Detected Parameters:	Sample ID:						Bottom-Tanks	Bottom-SW	Sidewall-W	Sidewall-S
	Sample Type:						Soil	Soil	Soil	Soil
	Date:						5/23/2023	5/24/2023	5/25/2023	5/23/2023
	NYSDEC Part 375 SCOs ²						Result	Q	Result	Q
EPA 8260 - TCL VOCs ¹	Unrestricted	Residential	Restricted Res.	Commerical	Industrial	Prot. of GW				
1,2,4-Trimethylbenzene	3.6	47	52	190	380	3.6	0.0234	0.0219	< 0.00803	< 0.00858
1,3,5-Trimethylbenzene	8.4	47	52	190	380	8.40	< 0.00743	0.0109	0.0132	0.0179
Benzene	0.06	2.9	4.8	44	89	0.06	< 0.00743	< 0.00848	< 0.00803	< 0.00858
Ethylbenzene	1.0	30	41	390	780	1.00	< 0.00743	< 0.00848	< 0.00803	< 0.00858
Isopropylbenzene	--	100	--	--	--	2.3	< 0.00743	< 0.00848	< 0.00803	< 0.00858
m,p-Xylene	0.26	100	100	500	1000	1.6	< 0.00743	< 0.00848	< 0.00803	< 0.00858
Methyl tert-butyl Ether	0.93	62	100	500	1000	0.93	< 0.00743	< 0.00848	< 0.00803	< 0.00858
Naphthalene	12	100	100	500	1000	12	< 0.01860	0.0228	< 0.02010	< 0.02140
n-Butylbenzene	12	--	--	--	--	--	< 0.00743	< 0.00848	< 0.00803	< 0.00858
n-Propylbenzene	3.9	100	100	500	1000	3.9	< 0.00743	< 0.00848	< 0.00803	< 0.00858
o-Xylene	0.26	100	100	500	1000	1.6	< 0.00743	< 0.00848	< 0.00803	< 0.00858
p-Isopropyltoluene	--	--	--	--	--	10.0	< 0.00743	< 0.00848	< 0.00803	< 0.00858
sec-Butylbenzene	11	100	100	500	1000	11	< 0.00743	< 0.00848	< 0.00803	< 0.00858
tert-Butylbenzene	5.9	100	100	500	1,000	5.90	< 0.00743	< 0.00848	< 0.00803	< 0.00858
Toluene	0.7	100	100	500	1000	0.7	< 0.00743	< 0.00848	< 0.00803	< 0.00858

Notes:

1 - All values presented in milligram per kilogram (mg/kg) and/or parts per million (ppm)

2 - 6 NYCRR Part 375 Soil Cleanup Objectives

< Substance not identified above the minimum laboratory quantitation limit

	Exceeds Unrestricted Use SCOs
	Exceeds Residential Use SCOs
	Exceeds Restricted Residential Use SCOs
	Exceeds Commercial Use SCOs
	Exceeds Industrial Use SCOs

Attachment A

Tank Registration Documents

New York State Department of Environmental Conservation
Pre-Work Notification for Bulk Storage (PBS or CBS) Tank Installation or Closure



This form provides notice to the Department of an upcoming tank installation and/or closure per 6 NYCRR Sections 613-1.9(h) and (f), 613-2.6(b) (1), 613-3.5 (b) (1) and 613-4.5 (b) (1) of the Petroleum Bulk Storage (PBS) Regulations, or 6 NYCRR Sections 596.2(f) and (h) of the Chemical Bulk Storage (CBS) Regulations. Submit the completed form to the DEC regional office at least 30 days prior to the scheduled start of work for PBS tank installation * and permanent closure** ; at least 3 days prior for CBS tank installation *** . For CBS permanent tank closure, a minimum of 3 day prior notice is recommended. **If the schedule for work changes you must notify the Department's Regional Office before work begins. Once the work is complete, the facility (property) owner is responsible for submitting a PBS or CBS application to the Department with the complete tank information including the date the action was completed.** The Owner is also responsible to ensure that all work is completed in compliance with the applicable PBS or CBS regulations (i.e., Parts 613 or 598/599). Any questions, call the Regional Office to which notice was submitted. Information on the Chemical and Petroleum Bulk Storage Programs be found at: <http://www.dec.ny.gov/chemical/287.html>

*not required for temporary tank system ** unless in response to corrective action *** unless immediate action is required

Check Applicable Program: PBS CBS Facility PBS or CBS Registration No. _____ or unregistered

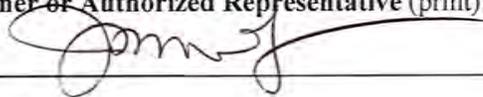
Site Name: 536 CENTRAL AVENUE	Contractor: TREC ENVIRONMENTAL
Site Address: 536 CENTRAL AVENUE	Address: 1018 WASHINGTON STREET
Site Address (cont): ROCHESTER, NY 14605	Address(cont): SPENCERPORT, NY 14459
Site Contact: JANE FORBES	Contact: KEITH HAMBLEY
Phone Number: 585-428-7892 Cell Number: 585-314-1719	Phone Number: 585-594-5545 Cell Number: 585-314-6189
Email Address: Jane.Forbes@CityofRochester.Gov	Email Address: khambley@trecenv.com

Tank Number	Type of Action (Close & Remove, Close in Place, Install)	Proposed Date**** (mm/dd/yy)	Tank Type (AST/ UST, Single-wall/ Double-wall)	Product Stored	Capacity (Gallons)	Spill Number (if applicable)	Reason for Action
001	CLOSE & REMOVE	05/17/2023	UST single-walled	gasoline	1000	2109562	abandoned, out of service
002	CLOSE & REMOVE	05/17/2023	UST single-walled	gasoline	1000	2109562	abandoned, out of service
003	CLOSE & REMOVE	05/17/2023	UST single walled	gasoline	1000	2109562	abandoned, out of service
004	CLOSE & REMOVE	05/17/2023	UST single walled	gasoline	1000	2109562	abandoned, out of service
Comments (i.e. piping/dispenser upgrade, preliminary site work for tank removal)							

**** Please notify the DEC regional office at least 3 days prior to the work beginning or if the proposed date changes.

I hereby certify under penalty of law that the information provided on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Name of Owner or Authorized Representative (print): JANE FORBES Title: Associate Environmental Specialist

Signature:  Date: 04/07/2023

p1262

New York State Department of Environmental Conservation Pre-Work Notification for Bulk Storage (PBS or CBS) Tank Installation or Closure



This form provides notice to the Department of an upcoming tank installation and/or closure per 6 NYCRR Sections 613-1.9(h) and (f), 613-2.6(b) (1), 613-3.5 (b) (1) and 613-4.5 (b) (1) of the Petroleum Bulk Storage (PBS) Regulations, or 6 NYCRR Sections 596.2(f) and (h) of the Chemical Bulk Storage (CBS) Regulations. Submit the completed form to the DEC regional office at least 30 days prior to the scheduled start of work for PBS tank installation * and permanent closure** ; at least 3 days prior for CBS tank installation *** . For CBS permanent tank closure, a minimum of 3 day prior notice is recommended. **If the schedule for work changes you must notify the Department's Regional Office before work begins. Once the work is complete, the facility (property) owner is responsible for submitting a PBS or CBS application to the Department with the complete tank information including the date the action was completed.** The Owner is also responsible to ensure that all work is completed in compliance with the applicable PBS or CBS regulations (i.e., Parts 613 or 598/599). Any questions, call the Regional Office to which notice was submitted. Information on the Chemical and Petroleum Bulk Storage Programs be found at: <http://www.dec.ny.gov/chemical/287.html>

*not required for temporary tank system ** unless in response to corrective action *** unless immediate action is required

Check Applicable Program: PBS CBS Facility PBS or CBS Registration No. _____ or unregistered

Site Name: 536 CENTRAL AVENUE	Contractor: TREC ENVIRONMENTAL
Site Address: 536 CENTRAL AVENUE	Address: 1018 WASHINGTON STREET
Site Address (cont): ROCHESTER, NY 14605	Address(cont): SPENCERPORT, NY 14459
Site Contact: JANE FORBES	Contact: KEITH HAMBLEY
Phone Number: 585-428-7892 Cell Number: 585-314-1719	Phone Number: 585-594-5545 Cell Number: 585-314-6189
Email Address: Jane.Forbes@CityofRochester.Gov	Email Address: khambley@trecenv.com

Tank Number	Type of Action (Close & Remove, Close in Place, Install)	Proposed Date**** (mm/dd/yy)	Tank Type (AST/UST, Single-wall/Double-wall)	Product Stored	Capacity (Gallons)	Spill Number (if applicable)	Reason for Action
005	CLOSE & REMOVE	05/17/2023	UST single-walled	gasoline	1000	2109562	abandoned, out of service
006	CLOSE & REMOVE	05/17/2023	UST single-walled	gasoline	1000	2109562	abandoned, out of service
007	CLOSE & REMOVE	05/17/2023	UST single walled	gasoline	1000	2109562	abandoned, out of service
Comments (i.e. piping/dispenser upgrade, preliminary site work for tank removal)							

**** Please notify the DEC regional office at least 3 days prior to the work beginning or if the proposed date changes.

I hereby certify under penalty of law that the information provided on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Name of Owner or Authorized Representative (print): JANE FORBES Title: Associate Environmental Specialist

Signature: *Jane Forbes* Date: 04/07/2023

p2 of 2



PBS # :
8-601933

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Petroleum Bulk Storage Program
Facility Information Report

Printed : 5/31/2023

pbsfacrpt_foil.rpt

Site Information

536 CENTRAL AVENUE
536 CENTRAL AVE
ROCHESTER, NY 14605

Site Phone: (585) 428-7892

Town: Rochester (c) County: Monroe

Facility Operator: CITY OF ROCHESTER - DEQ

Emergency Contact: JANE MH FORBES

Tax Map Information

Boro/Sec.:
Block:
Lot:

Site Owner Information

CITY OF ROCHESTER
30 CHURCH STREET ROOM 300B
ROCHESTER, NY 14614

(585) 428-7892

Owner Type : Local Government

Mail Correspondent Information

CITY OF ROCHESTER
30 CHURCH STREET ROOM 300B
ROCHESTER, NY 14614

ATTN: JANE MH FORBES

(585) 428-7892

Authorized Representative: JANE MH FORBES

Emergency Phone: (585) 428-7892

Site Status : Unregulated/Closed

Reg Expires : 05/31/2028 Cert Printed:

Total Active Tanks : 0

Last Inspected:

Site Type: Municipality (Incl. Waste Water Treatment Plants

Cert Issued: 05/31/2023

Total Active Capacity : 0

Inspected By:

(2) Tank No	(3) Tank Loc	(4) Status	(5) Date Instal	(5) Date Closed	(6) Capacity (gals)	(7) Product	(8) Tank Type	(9) Tank IP	(10) Tank EP	(11) Tank SC	(12) Tank LD	(13) Tank OP	(14) Tank SP	(15) Tank Disp	(16) Pipe Loc	(17) Pipe Type	(18) Pipe EP	(19) Pipe SC	(20) Pipe LD	(21) UDC	Next Tank Test	Next Line Test	Tank Owner
001	5	3	11/03/1950	05/18/2023	1,000	0009	01	00	00	00	00	00	00	00	00	00	00	00	00	00			CITY OF ROCHESTER
Subpart: 2		Category: 1																					
002	5	3	11/03/1950	05/08/2023	1,000	0009	01	00	00	00	00	00	00	00	00	00	00	00	00	00			CITY OF ROCHESTER
Subpart: 2		Category: 1																					
003	5	3	11/03/1950	05/08/2023	1,000	0009	01	00	00	00	00	00	00	00	00	00	00	00	00	00			CITY OF ROCHESTER
Subpart: 2		Category: 1																					
004	5	3	11/03/1950	05/08/2023	1,000	0009	01	00	00	00	00	00	00	00	00	00	00	00	00	00			CITY OF ROCHESTER
Subpart: 2		Category: 1																					
005	5	3	11/03/1950	05/08/2023	550	0009	01	00	00	00	00	00	00	00	00	00	00	00	00	00			CITY OF ROCHESTER
Subpart: 2		Category: 1																					
006	5	3	11/03/1950	05/08/2023	550	0009	01	00	00	00	00	00	00	00	00	00	00	00	00	00			CITY OF ROCHESTER
Subpart: 2		Category: 1																					
007	5	3	11/03/1950	05/08/2023	550	0009	01	00	00	00	00	00	00	00	00	00	00	00	00	00			CITY OF ROCHESTER
Subpart: 2		Category: 1																					

(See Reverse Side or Last Page for Code Keys)

PETROLEUM BULK STORAGE APPLICATION - SECTION B - TANK INFORMATION - CODE KEY

Action (1)

1. Initial Listing
2. Add Tank
3. Close/Remove Tank
4. Information Correction
5. Repair/Reline Tank

Tank Location (3)

1. Aboveground-contact w/soil
2. Aboveground-contact w/impervious barrier
3. Aboveground on saddles, leggs, stilts, rack or cradle
4. Partially buried tank (tank with 10% or more below ground)
5. Underground including vaulted with no access for inspection
6. Aboveground in Subterranean Vault w/access for inspections

Status (4)

1. In-service
2. Out-of-service
3. Closed-Removed
4. Closed- In Place
5. Tank converted to Non-Regulated use
6. Closed prior to 03/1991

Products Stored (7)

Heating Oils: On-Site

Consumption

- 0001. #2 Fuel Oil
- 0002. #4 Fuel Oil
- 0259. #5 Fuel Oil
- 0003. #6 Fuel Oil
- 0012. Kerosene
- 0591. Clarified Oil
- 2711. Biofuel Oil

2642. Used Oil (Heating)

Heating Oils: Resale/

Redistribution

- 2718. #2 Fuel Oil
- 2719. #4 Fuel Oil
- 2720. #5 Fuel Oil
- 2721. #6 Fuel Oil
- 2722. Kerosene
- 2723. Clarified Oil
- 2724. Biofuel Oil

Motor Fuels

- 0009. Gasoline
- 2712. Gasoline/Ethanol
- 0008. Diesel
- 2710. Biodiesel
- 0011. Jet Fuel
- 1044. Jet Fuel (Biofuel)
- 2641. Aviation Gasoline

Emergency Generator Fuels

- 0001. #2 Fuel Oil
- 2730. Biodiesel (E-Gen)
- 2731. Diesel (E-Gen)

Lubricating/Cutting Oils

- 0013. Lube Oil
- 0015. Motor Oil
- 1045. Gear/Spindle Oil
- 0010. Hydraulic Oil
- 0007. Cutting Oil
- 0021. Transmission Fluid
- 1836. Turbine Oil
- 0308. Petroleum Grease

Oils Used as Building Materials

- 2626. Asphaltic Emulsions
- 0748. Form Oil

Petroleum Spirits

- 0014. White/Mineral Spirits
- 1731. Naptha

Mineral/Insulating Oils

- 0020. Insulating Oil (e.g., Transformer, Cable Oil)
- 2630. Mineral Oil

Waste/Used/Other Oils

- 0022 Waste/Used Oil
- 9999. Other-Please list:*

Crude Oil

- 0006. Crude Oil
- 0701. Crude Oil Fractions

Tank Type (8)

01. Steel/Carbon Steel/Iron
02. Galvanized Steel Alloy
03. Stainless Steel Alloy
04. Fiberglass Coated Steel
05. Steel Tank in Concrete
06. Fiberglass Reinforced Plastic (FRP)
07. Plastic
08. Equivalent Technology

10. Urethane Clad Steel

99 Other-Please list:*

Internal Protection (9)

- 00. None
- 01 Epoxy Liner
- 02. Rubber Liner
- 03. Fiberglass Liner (FRP)
- 04. Glass Liner
- 99. Other-Please list:*

External Protection (10/18)

- 00. None
- 01. Painted/Asphalt Coating
- 02. Original Sacrificial Anode
- 03. Original Impressed Current
- 04. Fiberglass
- 05. Jacketed
- 06. Wrapped (Piping)
- 07 Retrofitted Sacrificial Anode
- 08. Retrofitted Impressed Current
- 09. Urethane
- 99. Other-Please list:*

Tank Secondary Containment (11)

- 00. None
- 01. Diking (AST Only)
- 02. Vault (w/access)
- 03. Vault (w/o access)
- 04. Double-Walled (UST Only)
- 05. Synthetic Liner
- 06. Remote Impounding Area
- 07. Excavation Liner
- 09. Modified Double-Walled (AST Only)
- 10. Impervious Underlayment (AST Only)**
- 11. Double Bottom (AST Only)**
- 12. Double-Walled (AST Only)

Tank Leak Detection (12)

- 00. None
- 01. Interstitial Electronic Monitoring
- 02. Interstitial Manual Monitoring
- 03. Vapor Well
- 04. Groundwater Well
- 05. In-Tank System (Auto Tank Gauge)
- 06. Impervious Barrier/Concrete Pad (AST Only)
- 07. Statistical Inventory Reconciliation (SIR)
- 08. Weep holes in vaults with no access for inspection.
- 99. Other-Please list:*

Overfill Protection (13)

- 00. None
- 01. Float Vent Valve
- 02. High Level Alarm
- 03. Automatic Shut-Off
- 04. Product Level Gauge (AST)
- 05. Vent Whistle
- 99. Other-Please list:*

Spill Prevention (14)

- 00. None
- 01. Catch Basin
- 99. Other-Please list:*

Pumping/Dispensing Method (15)

- 00. None
- 01. Pressurized Dispenser
- 02. Suction Dispenser
- 03. Gravity
- 04. On-Site Heating System (Suction)
- 05. On-Site Heating System (Supply/Return)
- 06. Tank-Mounted Dispenser
- 07. Loading Rack/Transfer Pump

Piping Location (16)

- 00. No Piping
- 01. Aboveground
- 02. Underground/On-ground
- 03. Aboveground/Underground Combination

Piping Type (17)

- 00. None
- 01. Steel/Carbon Steel/Iron
- 02. Galvanized Steel
- 03. Stainless Steel Alloy
- 04. Fiberglass Coated Steel
- 05. Steel Encased in Concrete
- 06. Fiberglass Reinforced Plastic (FRP)
- 07. Plastic
- 08. Equivalent Technology
- 09. Concrete
- 10. Copper
- 11. Flexible Piping
- 99. Other-Please list:*

Piping Secondary Containment (19)

- 00. None
- 01. Diking (Aboveground Only)
- 02. Vault (w/access)
- 04. Double-Walled (Underground Only)
- 06. Remote Impounding Area
- 07. Trench Liner
- 12. Double-Walled (Aboveground Only)
- 99. Other - Please List:*

Pipe Leak Detection (20)

- 00. None
- 01. Interstitial Electronic Monitoring
- 02. Interstitial Manual Monitoring
- 03. Vapor Well
- 04. Groundwater Well
- 07. Pressurized Piping Leak Detector
- 09. Exempt Suction Piping
- 10. Statistical Inventory Reconciliation (SIR)
- 99. Other-Please list:*

Under Dispenser Containment (UDC) (21)

Check.Box.if.Present.....

* If other, please list on a separate sheet including tank number,

** Each of these codes must be combined with code 01 or 06 to meet compliance requirements.



Petroleum Bulk Storage Application

Pursuant to the Environmental Conservation Law: Article 17, Title 10; and
Regulations 6 NYCRR Part 613 and 6 NYCRR Subpart 374-2

(Please Type or Print Clearly and Complete All Items for Sections A, B & C)

Return Completed Form & Fees To:

NYSDEC REGION 8
6274 EAST AVON-LIMA ROAD
AVON, NEW YORK 14414-8519
585-226-2466



PBS Number:

Section A - Facility/Property Owner/Contact Information

Expiration Date:

Transaction Type: 1/3 1) Initial/New Facility 2) Change of Ownership 3) Tank Installation, Closing, or Repair 4) Information Correction 5) Renewal	F A C I L I T Y	Facility Name: 536 CENTRAL AVENUE	Tax Map Info: 106.644	TYPE OF PETROLEUM FACILITY (Check only one)			
		Facility Address (Physical Address, No P.O. Boxes): 536 CENTRAL AVENUE	Block: 2	<input type="checkbox"/> 01=Storage Terminal/Petrol. Distributor	<input type="checkbox"/> 02=Retail Gasoline Sales	<input type="checkbox"/> 03=Other Retail Sales	<input type="checkbox"/> 04=Manufacturing
		Facility Address (cont.):	Lot: 70	<input type="checkbox"/> 05=Utility	<input type="checkbox"/> 06=Trucking/Transportation/Fleet	<input type="checkbox"/> 07=Apartment/Office Building	<input type="checkbox"/> 08=School
		City: ROCHESTER	State: NY	ZIP Code: 14605	<input type="checkbox"/> 09=Farm	<input type="checkbox"/> 10=Private Residence	<input type="checkbox"/> 11=Airline/Air Taxi/Airport
		County: MONROE	Township/City: ROCHESTER	Facility Phone Number: 585-428-7892	<input checked="" type="checkbox"/> 13=Municipality	<input type="checkbox"/> 12=Chemical Distributor	<input type="checkbox"/> 15=Railroad
Facility Operator: CITY OF ROCHESTER - DEQ				<input type="checkbox"/> 25=Auto Service/Repair (No Gasoline Sales)	<input type="checkbox"/> 28=Cemetery/Memorial		
				<input type="checkbox"/> 26=Religious (Church, Synagogue, Mosque, Temple, etc.)	<input type="checkbox"/> 52=Marina		
				<input type="checkbox"/> 27=Hospital/Nursing Home/Health Care	<input type="checkbox"/> 53=Nuclear Power Plant		
				<input type="checkbox"/> 99=Other (Specify):			
		Emergency Contact Name: JANE MH FORBES		Emergency Telephone Number: 585-428-7892			
NOTE: Fill in Property Owner information here...>>> Indicate Tank Owner in Section C.	O W N E R	Facility (Property) Owner (from Deed): CITY OF ROCHESTER		I hereby certify, under penalty of law, that all of the information provided on this form is true and correct. False statements made herein may be punishable as a criminal offense and/or a civil violation in accordance with applicable state and federal law.			
		Facility Owner Address (Street and/or P.O. Box): 30 CHURCH STREET ROOM 300B		Name of Owner or Authorized Representative: JANE MH FORBES		Amount Enclosed: \$ 500.00	
		City: ROCHESTER	State: NY	ZIP Code: 14614	Title: ASSOCIATE ENVIRONMENTAL SPECIALIST		
		Owner Telephone Number: 585-428-7892		Type of Owner (check only one):		Signature: <i>Jane Forbes</i>	
		1 <input type="checkbox"/> Private Resident		Date: 04/10/2023			
		2 <input type="checkbox"/> State Government					
		3 <input checked="" type="checkbox"/> Local Government					
		4 <input type="checkbox"/> Federal Government					
		5 <input type="checkbox"/> Corporate/Commercial/Other					
Official Use Only Date Received: ___/___/___ Date Processed: ___/___/___ Amount Received: \$ _____ Reviewed By: _____ Rev. 12/22/2022	C O R P O R A T E	(Please keep this information up to date.)					
		Facility Contact Person Name: JANE MH FORBES					
		Contact Person Company Name: JANE MH FORBES					
		Address: 30 CHURCH STREET ROOM 300B					
		Address (cont.):					
City/State/ZIP Code: ROCHESTER, NY 14614							
Tel. Number: 585-428-7892		eMail Address: Jane.Forbes@CityofRochester.Gov					

PBS Number:

Section B - Tank Information

(Please use the key located on the last page to complete each item/column)

Registration Expiration Date:

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
Action	Tank Number	Tank Location	Status	Installation, out-of-service, or Permanent ClosureDate (mm/dd/yyyy) Application will be returned if blank	Capacity (Gallons)	Product Stored (If Gasoline w/ethanol or Biodiesel, list % additive)	Tank Type	Tank Internal Protection	Tank External Protection	Tank Secondary Containment	Tank Leak Detection	Tank Overfill Prevention	Tank Spill Prevention	Pumping/Dispensing Method	Piping Location	Piping Type	Piping External Protection	Piping Secondary Containment	Piping Leak Detection	Under Dispenser Containment (UDC) (Check box if present)
1	001	5	2	11/03/1950	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	<input type="checkbox"/>
1	002	5	2	11/03/1950	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	<input type="checkbox"/>
1	003	5	2	11/03/1950	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	<input type="checkbox"/>
1	004	5	2	11/03/1950	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	<input type="checkbox"/>
1	005	5	2	11/03/1950	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	<input type="checkbox"/>
1	006	5	2	11/03/1950	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	<input type="checkbox"/>
1	007	5	2	11/03/1950	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	<input type="checkbox"/>
																				<input type="checkbox"/>
3	001	5	3	05/18/2023	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	<input type="checkbox"/>
3	002	5	3	05/18/2023	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	<input type="checkbox"/>
3	003	5	3	05/18/2023	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	<input type="checkbox"/>
3	004	5	3	05/18/2023	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	<input type="checkbox"/>
3	005	5	3	05/18/2023	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	<input type="checkbox"/>
3	006	5	3	05/18/2023	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	<input type="checkbox"/>
3	007	5	3	05/18/2023	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	<input type="checkbox"/>
																				<input type="checkbox"/>
																				<input type="checkbox"/>
																				<input type="checkbox"/>
																				<input type="checkbox"/>
																				<input type="checkbox"/>
																				<input type="checkbox"/>
																				<input type="checkbox"/>

Note: If you need to add tanks to your registration, write them in using blank lines above. Attach additional sheets as needed. Blank Section B is available at http://www.dec.ny.gov/docs/remediation_hudson_pdf/pbsrenewal.pdf

PBS Number:

Petroleum Bulk Storage Application

Section C - Tank Ownership Information (for PBS tanks listed in Section B)

Tank Owner Information <input checked="" type="checkbox"/> Check box if same as Facility (Property) Owner. If tank owner is different from property owner, fill out information below:		
Tank Owner Name (Company/Individual): CITY OF ROCHESTER		
Contact Person: JANE MH FORBES		
Tank Owner Address: CITY HALL 30 CHURCH STREET ROOM 300B		
City: ROCHESTER	State: NY	ZIP: 14614
Contact Person Telephone Number: 585-428-7892	Contact Person email: Jane.Forbes@CityofRochester.Gov	
Specific Tanks Owned <input checked="" type="checkbox"/> Check box if this owner owns all tanks at this facility. If not, list tanks owned by this owner below:		
Tank Number:		
Name of Class B (Daily On-Site) Operator: N/A	Authorization No:	
Name of Class A (Primary) Operator: N/A	Authorization No:	

Tank Owner Information <input type="checkbox"/> Check box if same as Facility (Property) Owner. If tank owner is different from property owner, fill out information below:		
Tank Owner Name (Company/Individual):		
Contact Person:		
Tank Owner Address:		
City:	State:	ZIP:
Contact Person Telephone Number:	Contact Person email:	
Specific Tanks Owned <input type="checkbox"/> Check box if this owner owns all tanks at this facility. If not, list tanks owned by this owner below:		
Tank Number:		
Name of Class B (Daily On-Site) Operator:	Authorization No:	
Name of Class A (Primary) Operator:	Authorization No:	

PETROLEUM BULK STORAGE APPLICATION - SECTION B - TANK INFORMATION - CODE KEY

Action (1)

1. Initial Listing
2. Add Tank
3. Close/Remove Tank
4. Information Correction
5. Repair/Reline Tank

Tank Location (3)

1. Aboveground-contact w/soil
2. Aboveground-contact w/impervious barrier
3. Aboveground on saddles, legs, stilts, rack or cradle
4. Partially buried tank (tank with 10% or more below ground)
5. Underground including vaulted with no access for inspection
6. Aboveground in Subterranean Vault w/access for inspections

Status (4)

1. In-service
2. Out-of-service
3. Closed-Removed
4. Closed- In Place
5. Tank converted to Non-Regulated use

Products Stored (7)

Heating Oils: On-Site Consumption

- 0001. #2 Fuel Oil
- 0002. #4 Fuel Oil
- 0259. #5 Fuel Oil
- 0003. #6 Fuel Oil
- 0012. Kerosene
- 0591. Clarified Oil
- 2711. Biodfuel Oil
- 2642. Used Oil (Heating)

Heating Oils: Resale/Redistribution

- 2718. #2 Fuel Oil
- 2719. #4 Fuel Oil
- 2720. #5 Fuel Oil
- 2721. #6 Fuel Oil
- 2722. Kerosene
- 2723. Clarified Oil
- 2724. Biofuel Oil

Motor Fuels

- 0009. Gasoline
- 2712. Gasoline/Ethanol

- 0008. Diesel
- 2710. Biodiesel
- 0011. Jet Fuel
- 1044. Jet Fuel (Biofuel)
- 2641. Aviation Gasoline

Emergency Generator Fuels

- 0001. #2 Fuel Oil
- 2730. Biodiesel (E-Gen)
- 2731. Diesel (E-Gen)

Lubricating/Cutting Oils

- 0013. Lube Oil
- 0015. Motor Oil
- 1045. Gear/Spindle Oil
- 0010. Hydraulic Oil
- 0007. Cutting Oil
- 0021. Transmission Fluid
- 1836. Turbine Oil
- 0308. Petroleum Grease

Oils Used as Building Materials

- 2626. Asphaltic Emulsions
- 0748. Form Oil

Petroleum Spirits

- 0014. White/Mineral Spirits
- 1731. Naptha

Mineral/Insulating Oils

- 0020. Insulating Oil (e.g., Transformer, Cable Oil)
- 2630. Mineral Oil

Waste/Used/Other Oils

- 0022. Waste/Used Oil
- 9999. Other-Please list:*

Crude Oil

- 0006. Crude Oil
- 0701. Crude Oil Fractions

Tank Type (8)

- 01. Steel/Carbon Steel/Iron
- 02. Galvanized Steel Alloy
- 03. Stainless Steel Alloy
- 04. Fiberglass Coated Steel
- 05. Steel Tank in Concrete
- 06. Fiberglass Reinforced Plastic (FRP)
- 07. Plastic
- 08. Equivalent Technology

- 09. Concrete
- 10. Urethane Clad Steel
- 99. Other-Please list:*

Internal Protection (9)

- 00. None
- 01. Epoxy Liner
- 02. Rubber Liner
- 03. Fiberglass Liner (FRP)
- 04. Glass Liner
- 99. Other-Please list:*

External Protection (10/18)

- 00. None
- 01. Painted/Asphalt Coating
- 02. Original Sacrificial Anode
- 03. Original Impressed Current
- 04. Fiberglass
- 05. Jacketed
- 06. Wrapped (Piping)
- 07. Retrofitted Sacrificial Anode
- 08. Retrofitted Impressed Current
- 09. Urethane
- 99. Other-Please list:*

Tank Secondary Containment (11)

- 00. None
- 01. Diking (AST Only)
- 02. Vault (w/access)
- 03. Vault (w/o access)
- 04. Double-Walled (UST Only)
- 05. Synthetic Liner
- 06. Remote Impounding Area
- 07. Excavation Liner
- 09. Modified Double-Walled (AST Only)
- 10. Impervious Underlayment (AST Only)**
- 11. Double Bottom (AST Only)**
- 12. Double-Walled (AST Only)
- 99. Other - Please list*

Tank Leak Detection (12)

- 00. None
- 01. Interstitial Electronic Monitoring
- 02. Interstitial Manual Monitoring
- 03. Vapor Well
- 04. Groundwater Well
- 05. In-Tank System (Auto Tank

- 06. Impervious Barrier/Concrete Pad (AST Only)
- 07. Statistical Inventory Reconciliation (SIR)
- 08. Weep holes in vaults with no access for inspection
- 99. Other-Please list: *

Overfill Protection (13)

- 00. None
- 01. Float Vent Valve
- 02. High Level Alarm
- 03. Automatic Shut-Off
- 04. Product Level Gauge (AST Only)
- 05. Vent Whistle
- 99. Other-Please list:*

Spill Prevention (14)

- 00. None
- 01. Catch Basin
- 99. Other-Please list:*

Pumping/Dispensing Method (15)

- 00. None
- 01. Pressurized Dispenser
- 02. Suction Dispenser
- 03. Gravity
- 04. On-Site Heating System (Suction)
- 05. On-Site Heating System (Supply/Return)
- 06. Tank-Mounted Dispenser
- 07. Loading Rack/Transfer Pump

Piping Location (16)

- 00. No Piping
- 01. Aboveground
- 02. Underground/On-ground
- 03. Aboveground/Underground Combination

Piping Type (17)

- 00. None
- 01. Steel/Carbon Steel/Iron
- 02. Galvanized Steel
- 03. Stainless Steel Alloy
- 04. Fiberglass Coated Steel
- 05. Steel Encased in Concrete

- 06. Fiberglass Reinforced Plastic (FRP)
- 07. Plastic
- 08. Equivalent Technology
- 09. Concrete
- 10. Copper
- 11. Flexible Piping
- 99. Other-Please list:*

Piping Secondary Containment (19)

- 00. None
- 01. Diking (Aboveground Only)
- 02. Vault (w/access)
- 04. Double-Walled (Underground Only)
- 06. Remote Impounding Area
- 07. Trench Liner
- 12. Double-Walled (Aboveground Only)
- 99. Other-Please list: *

Pipe Leak Detection (20)

- 00. None
- 01. Interstitial Electronic Monitoring
- 02. Interstitial Manual Monitoring
- 03. Vapor Well
- 04. Groundwater Well
- 07. Pressurized Piping Leak Detector
- 09. Exempt Suction Piping
- 10. Statistical Inventory Reconciliation (SIR)
- 99. Other-Please list:*

Under Dispenser Containment (UDC) (21)

Check Box if Present

.....
* If other, please list on a separate sheet including tank number.

** Each of these codes must be combined with code 01 or 06 to meet compliance requirements.



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Lu Engineers, Inc.

For Lab Project ID

231720

Referencing

Central Ave 4229-57

Prepared

Thursday, May 4, 2023

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Emily Faumen

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, May 4, 2023

Page 1 of 6



Client: Lu Engineers, Inc.

Project Reference: Central Ave 4229-57

Sample Identifier: UST - Water - 01

Lab Sample ID: 231720-01

Date Sampled: 4/20/2023 11:20

Matrix: Water

Date Received 4/27/2023

Flash Point

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Flash Point, Celsius	> 70.0	C		5/3/2023

Method Reference(s): EPA 1010A

ELAP does not offer this test for approval as part of their laboratory certification program.

Metals

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Lead	4.77	mg/L		5/2/2023 06:23

Method Reference(s): EPA 6010C
EPA 3005A

Preparation Date: 4/28/2023

Data File: 230501A

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Benzene	< 1.00	ug/L		4/28/2023 15:34

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	111	79.7 - 118		4/28/2023 15:34
4-Bromofluorobenzene	96.4	80.1 - 112		4/28/2023 15:34
Pentafluorobenzene	97.5	88 - 115		4/28/2023 15:34
Toluene-D8	104	88.2 - 113		4/28/2023 15:34

Method Reference(s): EPA 8260C
EPA 5030C

Data File: z16487.D



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"H" = Denotes a parameter analyzed outside of holding time.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Chain of Custody Supplement

Client: LU Completed by: ZF
 Lab Project ID: 231720 Date: 4/27/23

Sample Condition Requirements
 Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Preservation	<input checked="" type="checkbox"/> VOA	<input checked="" type="checkbox"/> Met	<input checked="" type="checkbox"/>
Comments	<u>added HNO₃ pH 2.2 @ 1122 4/27/23</u>		
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Lead
Comments	<u>0.8°C</u>		
Compliant Sample Quantity/Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Lu Engineers, Inc.

For Lab Project ID

231666

Referencing

Central Ave 4229-57

Prepared

Thursday, May 4, 2023

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Emily Faumen

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, May 4, 2023

Page 1 of 13



Client: Lu Engineers, Inc.

Project Reference: Central Ave 4229-57

Sample Identifier: UST-03

Lab Sample ID: 231666-01

Date Sampled: 4/20/2023 11:45

Matrix: Sludge

Date Received 4/25/2023

Ignitability

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Ignitability	No Burn	mm / sec		5/2/2023
Method Reference(s): EPA 1030				

PCBs

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
PCB-1016	< 1.35	mg/Kg		5/3/2023 08:34
PCB-1221	< 1.35	mg/Kg		5/3/2023 08:34
PCB-1232	< 1.35	mg/Kg		5/3/2023 08:34
PCB-1242	< 1.35	mg/Kg		5/3/2023 08:34
PCB-1248	4.78	mg/Kg		5/3/2023 08:34
PCB-1254	< 1.35	mg/Kg		5/3/2023 08:34
PCB-1260	9.25	mg/Kg		5/3/2023 08:34
PCB-1262	< 1.35	mg/Kg		5/3/2023 08:34
PCB-1268	< 1.35	mg/Kg		5/3/2023 08:34

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Tetrachloro-m-xylene	NC	10 - 110		5/3/2023 08:34
Method Reference(s): EPA 8082A EPA 3546				
Preparation Date: 4/27/2023				

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1,1-Trichloroethane	< 1460	ug/Kg		5/1/2023 15:06
1,1,2,2-Tetrachloroethane	< 1460	ug/Kg		5/1/2023 15:06
1,1,2-Trichloroethane	< 1460	ug/Kg		5/1/2023 15:06
1,1-Dichloroethane	< 1460	ug/Kg		5/1/2023 15:06
1,1-Dichloroethene	< 1460	ug/Kg		5/1/2023 15:06
1,2,3-Trichlorobenzene	< 3660	ug/Kg		5/1/2023 15:06
1,2,4-Trichlorobenzene	< 3660	ug/Kg		5/1/2023 15:06

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Lab Project ID: 231666

Client: Lu Engineers, Inc.

Project Reference: Central Ave 4229-57

Sample Identifier: UST-03

Lab Sample ID: 231666-01

Date Sampled: 4/20/2023 11:45

Matrix: Sludge

Date Received 4/25/2023

1,2-Dibromo-3-Chloropropane	< 7320	ug/Kg	5/1/2023 15:06
1,2-Dibromoethane	< 1460	ug/Kg	5/1/2023 15:06
1,2-Dichlorobenzene	1840	ug/Kg	5/1/2023 15:06
1,2-Dichloroethane	< 1460	ug/Kg	5/1/2023 15:06
1,2-Dichloropropane	< 1460	ug/Kg	5/1/2023 15:06
1,3-Dichlorobenzene	< 1460	ug/Kg	5/1/2023 15:06
1,4-Dichlorobenzene	< 1460	ug/Kg	5/1/2023 15:06
1,4-Dioxane	< 7320	ug/Kg	5/1/2023 15:06
2-Butanone	< 7320	ug/Kg	5/1/2023 15:06
2-Hexanone	< 3660	ug/Kg	5/1/2023 15:06
4-Methyl-2-pentanone	< 3660	ug/Kg	5/1/2023 15:06
Acetone	< 7320	ug/Kg	5/1/2023 15:06
Benzene	< 1460	ug/Kg	5/1/2023 15:06
Bromochloromethane	< 3660	ug/Kg	5/1/2023 15:06
Bromodichloromethane	< 1460	ug/Kg	5/1/2023 15:06
Bromoform	< 3660	ug/Kg	5/1/2023 15:06
Bromomethane	< 1460	ug/Kg	5/1/2023 15:06
Carbon disulfide	< 1460	ug/Kg	5/1/2023 15:06
Carbon Tetrachloride	< 1460	ug/Kg	5/1/2023 15:06
Chlorobenzene	< 1460	ug/Kg	5/1/2023 15:06
Chloroethane	< 1460	ug/Kg	5/1/2023 15:06
Chloroform	< 1460	ug/Kg	5/1/2023 15:06
Chloromethane	< 1460	ug/Kg	5/1/2023 15:06
cis-1,2-Dichloroethene	< 1460	ug/Kg	5/1/2023 15:06
cis-1,3-Dichloropropene	< 1460	ug/Kg	5/1/2023 15:06
Cyclohexane	< 7320	ug/Kg	5/1/2023 15:06
Dibromochloromethane	< 1460	ug/Kg	5/1/2023 15:06
Dichlorodifluoromethane	< 1460	ug/Kg	5/1/2023 15:06
Ethylbenzene	11500	ug/Kg	5/1/2023 15:06
Freon 113	< 1460	ug/Kg	5/1/2023 15:06

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave 4229-57

Sample Identifier: UST-03

Lab Sample ID: 231666-01

Date Sampled: 4/20/2023 11:45

Matrix: Sludge

Date Received 4/25/2023

Isopropylbenzene	6050	ug/Kg	5/1/2023	15:06
m,p-Xylene	122000	ug/Kg	5/1/2023	15:06
Methyl acetate	< 1460	ug/Kg	5/1/2023	15:06
Methyl tert-butyl Ether	< 1460	ug/Kg	5/1/2023	15:06
Methylcyclohexane	21200	ug/Kg	5/1/2023	15:06
Methylene chloride	< 3660	ug/Kg	5/1/2023	15:06
o-Xylene	65300	ug/Kg	5/1/2023	15:06
Styrene	< 3660	ug/Kg	5/1/2023	15:06
Tetrachloroethene	< 1460	ug/Kg	5/1/2023	15:06
Toluene	14500	ug/Kg	5/1/2023	15:06
trans-1,2-Dichloroethene	< 1460	ug/Kg	5/1/2023	15:06
trans-1,3-Dichloropropene	< 1460	ug/Kg	5/1/2023	15:06
Trichloroethene	< 1460	ug/Kg	5/1/2023	15:06
Trichlorofluoromethane	< 1460	ug/Kg	5/1/2023	15:06
Vinyl chloride	< 1460	ug/Kg	5/1/2023	15:06

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	116	72.3 - 128		5/1/2023 15:06
4-Bromofluorobenzene	98.5	70 - 123		5/1/2023 15:06
Pentafluorobenzene	97.1	80.7 - 124		5/1/2023 15:06
Toluene-D8	107	82.1 - 121		5/1/2023 15:06

Method Reference(s): EPA 8260C
EPA 5035A -- H
Data File: z16512.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Lu Engineers, Inc.

Project Reference: Central Ave 4229-57

Sample Identifier: UST-03

Lab Sample ID: 231666-01A

Date Sampled: 4/20/2023 11:45

Matrix: TCLP Extract

Date Received 4/25/2023

TCLP Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Regulatory Limit</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	< 0.00200	mg/L	0.2		5/3/2023 08:41
Method Reference(s):	EPA 7470A EPA 1311				
Preparation Date:	5/2/2023				
Data File:	Hg230503A				

TCLP RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Regulatory Limit</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Arsenic	< 0.500	mg/L	5		4/28/2023 07:36
Barium	10.2	mg/L	100		4/28/2023 07:36
Cadmium	0.645	mg/L	1		4/28/2023 07:36
Chromium	< 0.500	mg/L	5		4/28/2023 07:36
Lead	434	mg/L	5		5/2/2023 07:28
Selenium	< 0.200	mg/L	1		4/28/2023 07:36
Silver	< 0.500	mg/L	5		4/28/2023 07:36
Method Reference(s):	EPA 6010C EPA 1311 / 3005A				
Preparation Date:	4/27/2023				
Data File:	230428A				



Client: Lu Engineers, Inc.

Project Reference: Central Ave 4229-57

Sample Identifier: UST-04

Lab Sample ID: 231666-02

Date Sampled: 4/20/2023 12:00

Matrix: Sludge

Date Received: 4/25/2023

Ignitability

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Ignitability	No Burn	mm / sec		5/2/2023
Method Reference(s): EPA 1030				

PCBs

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
PCB-1016	< 2.07	mg/Kg		5/3/2023 08:57
PCB-1221	< 2.07	mg/Kg		5/3/2023 08:57
PCB-1232	< 2.07	mg/Kg		5/3/2023 08:57
PCB-1242	< 2.07	mg/Kg		5/3/2023 08:57
PCB-1248	6.08	mg/Kg		5/3/2023 08:57
PCB-1254	< 2.07	mg/Kg		5/3/2023 08:57
PCB-1260	6.79	mg/Kg		5/3/2023 08:57
PCB-1262	< 2.07	mg/Kg		5/3/2023 08:57
PCB-1268	< 2.07	mg/Kg		5/3/2023 08:57

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Tetrachloro-m-xylene	NC	10 - 110		5/3/2023 08:57
Method Reference(s): EPA 8082A EPA 3546				
Preparation Date: 4/27/2023				

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1,1-Trichloroethane	< 11600	ug/Kg		5/2/2023 12:01
1,1,2,2-Tetrachloroethane	< 11600	ug/Kg		5/2/2023 12:01
1,1,2-Trichloroethane	< 11600	ug/Kg		5/2/2023 12:01
1,1-Dichloroethane	< 11600	ug/Kg		5/2/2023 12:01
1,1-Dichloroethene	< 11600	ug/Kg		5/2/2023 12:01
1,2,3-Trichlorobenzene	< 29000	ug/Kg		5/2/2023 12:01
1,2,4-Trichlorobenzene	< 29000	ug/Kg		5/2/2023 12:01

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Lab Project ID: 231666

Client: Lu Engineers, Inc.

Project Reference: Central Ave 4229-57

Sample Identifier: UST-04

Lab Sample ID: 231666-02

Date Sampled: 4/20/2023 12:00

Matrix: Sludge

Date Received 4/25/2023

1,2-Dibromo-3-Chloropropane	< 57900	ug/Kg	5/2/2023 12:01
1,2-Dibromoethane	< 11600	ug/Kg	5/2/2023 12:01
1,2-Dichlorobenzene	< 11600	ug/Kg	5/2/2023 12:01
1,2-Dichloroethane	< 11600	ug/Kg	5/2/2023 12:01
1,2-Dichloropropane	< 11600	ug/Kg	5/2/2023 12:01
1,3-Dichlorobenzene	< 11600	ug/Kg	5/2/2023 12:01
1,4-Dichlorobenzene	< 11600	ug/Kg	5/2/2023 12:01
1,4-Dioxane	< 57900	ug/Kg	5/2/2023 12:01
2-Butanone	< 57900	ug/Kg	5/2/2023 12:01
2-Hexanone	< 29000	ug/Kg	5/2/2023 12:01
4-Methyl-2-pentanone	< 29000	ug/Kg	5/2/2023 12:01
Acetone	< 57900	ug/Kg	5/2/2023 12:01
Benzene	< 11600	ug/Kg	5/2/2023 12:01
Bromochloromethane	< 29000	ug/Kg	5/2/2023 12:01
Bromodichloromethane	< 11600	ug/Kg	5/2/2023 12:01
Bromoform	< 29000	ug/Kg	5/2/2023 12:01
Bromomethane	< 11600	ug/Kg	5/2/2023 12:01
Carbon disulfide	< 11600	ug/Kg	5/2/2023 12:01
Carbon Tetrachloride	< 11600	ug/Kg	5/2/2023 12:01
Chlorobenzene	< 11600	ug/Kg	5/2/2023 12:01
Chloroethane	< 11600	ug/Kg	5/2/2023 12:01
Chloroform	< 11600	ug/Kg	5/2/2023 12:01
Chloromethane	< 11600	ug/Kg	5/2/2023 12:01
cis-1,2-Dichloroethene	< 11600	ug/Kg	5/2/2023 12:01
cis-1,3-Dichloropropene	< 11600	ug/Kg	5/2/2023 12:01
Cyclohexane	< 57900	ug/Kg	5/2/2023 12:01
Dibromochloromethane	< 11600	ug/Kg	5/2/2023 12:01
Dichlorodifluoromethane	< 11600	ug/Kg	5/2/2023 12:01
Ethylbenzene	33700	ug/Kg	5/2/2023 12:01
Freon 113	< 11600	ug/Kg	5/2/2023 12:01

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave 4229-57

Sample Identifier: UST-04

Lab Sample ID: 231666-02

Date Sampled: 4/20/2023 12:00

Matrix: Sludge

Date Received 4/25/2023

Isopropylbenzene	18800	ug/Kg	5/2/2023 12:01
m,p-Xylene	377000	ug/Kg	5/2/2023 12:01
Methyl acetate	< 11600	ug/Kg	5/2/2023 12:01
Methyl tert-butyl Ether	< 11600	ug/Kg	5/2/2023 12:01
Methylcyclohexane	65900	ug/Kg	5/2/2023 12:01
Methylene chloride	< 29000	ug/Kg	5/2/2023 12:01
o-Xylene	262000	ug/Kg	5/2/2023 12:01
Styrene	< 29000	ug/Kg	5/2/2023 12:01
Tetrachloroethene	< 11600	ug/Kg	5/2/2023 12:01
Toluene	59800	ug/Kg	5/2/2023 12:01
trans-1,2-Dichloroethene	< 11600	ug/Kg	5/2/2023 12:01
trans-1,3-Dichloropropene	< 11600	ug/Kg	5/2/2023 12:01
Trichloroethene	< 11600	ug/Kg	5/2/2023 12:01
Trichlorofluoromethane	< 11600	ug/Kg	5/2/2023 12:01
Vinyl chloride	< 11600	ug/Kg	5/2/2023 12:01

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	118	72.3 - 128		5/2/2023 12:01
4-Bromofluorobenzene	111	70 - 123		5/2/2023 12:01
Pentafluorobenzene	95.5	80.7 - 124		5/2/2023 12:01
Toluene-D8	102	82.1 - 121		5/2/2023 12:01

Method Reference(s): EPA 8260C
EPA 5035A -- H
Data File: z16540.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Lu Engineers, Inc.

Project Reference: Central Ave 4229-57

Sample Identifier: UST-04

Lab Sample ID: 231666-02A

Date Sampled: 4/20/2023 12:00

Matrix: TCLP Extract

Date Received 4/25/2023

TCLP Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Regulatory Limit</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	< 0.00200	mg/L	0.2		5/3/2023 08:43
Method Reference(s):	EPA 7470A EPA 1311				
Preparation Date:	5/2/2023				
Data File:	Hg230503A				

TCLP RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Regulatory Limit</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Arsenic	< 0.500	mg/L	5		4/28/2023 07:40
Barium	11.9	mg/L	100		4/28/2023 07:40
Cadmium	0.164	mg/L	1		4/28/2023 07:40
Chromium	< 0.500	mg/L	5		4/28/2023 07:40
Lead	203	mg/L	5		4/28/2023 07:40
Selenium	< 0.200	mg/L	1		4/28/2023 07:40
Silver	< 0.500	mg/L	5		4/28/2023 07:40
Method Reference(s):	EPA 6010C EPA 1311 / 3005A				
Preparation Date:	4/27/2023				
Data File:	230428A				



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"H" = Denotes a parameter analyzed outside of holding time.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



2 of 2

Chain of Custody Supplement

Client: Lu Engineers Completed by: Glenn Pezzulo
 Lab Project ID: 231666 Date: 4/26/23

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 5035	<input type="checkbox"/>
Comments	_____		
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Preservation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	2°C iced - 4/25/23 3°C iced - 4/26/23		
Compliant Sample Quantity/Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		

Attachment B-3

Soil Bottom Samples Laboratory Report



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Lu Engineers, Inc.

For Lab Project ID

232065

Referencing

4229-57

Prepared

Thursday, May 18, 2023

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Emily Farmer

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, May 18, 2023

Page 1 of 23



Client: Lu Engineers, Inc.

Project Reference: 4229-57

Sample Identifier: T-1 Soil

Lab Sample ID: 232065-01

Date Sampled: 5/17/2023 15:40

Matrix: Soil

Date Received 5/17/2023

Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	0.0517	mg/Kg	DM	5/18/2023 08:55
Method Reference(s):	EPA 7471B			
Preparation Date:	5/17/2023			
Data File:	Hg230518A			

RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Arsenic	1.81	mg/Kg		5/18/2023 10:14
Barium	80.1	mg/Kg		5/18/2023 10:14
Cadmium	< 0.295	mg/Kg		5/18/2023 10:14
Chromium	4.61	mg/Kg		5/18/2023 10:14
Lead	56.4	mg/Kg		5/18/2023 10:14
Selenium	< 1.18	mg/Kg		5/18/2023 10:14
Silver	< 0.589	mg/Kg		5/18/2023 10:14
Method Reference(s):	EPA 6010C EPA 3050B			
Preparation Date:	5/17/2023			
Data File:	230518A			

PCBs

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
PCB-1016	< 0.132	mg/Kg		5/18/2023 10:30
PCB-1221	< 0.132	mg/Kg		5/18/2023 10:30
PCB-1232	< 0.132	mg/Kg		5/18/2023 10:30
PCB-1242	< 0.132	mg/Kg		5/18/2023 10:30
PCB-1248	< 0.132	mg/Kg		5/18/2023 10:30
PCB-1254	< 0.132	mg/Kg		5/18/2023 10:30
PCB-1260	< 0.132	mg/Kg		5/18/2023 10:30
PCB-1262	< 0.132	mg/Kg		5/18/2023 10:30
PCB-1268	< 0.132	mg/Kg		5/18/2023 10:30

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: 4229-57

Sample Identifier: T-1 Soil

Lab Sample ID: 232065-01

Date Sampled: 5/17/2023 15:40

Matrix: Soil

Date Received 5/17/2023

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Tetrachloro-m-xylene	32.8	10 - 110		5/18/2023 10:30

Method Reference(s): EPA 8082A

EPA 3546

Preparation Date: 5/17/2023

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1,1-Trichloroethane	< 7.25	ug/Kg		5/17/2023 20:39
1,1,2,2-Tetrachloroethane	< 7.25	ug/Kg		5/17/2023 20:39
1,1,2-Trichloroethane	< 7.25	ug/Kg		5/17/2023 20:39
1,1-Dichloroethane	< 7.25	ug/Kg		5/17/2023 20:39
1,1-Dichloroethene	< 7.25	ug/Kg		5/17/2023 20:39
1,2,3-Trichlorobenzene	< 18.1	ug/Kg		5/17/2023 20:39
1,2,4-Trichlorobenzene	< 18.1	ug/Kg		5/17/2023 20:39
1,2-Dibromo-3-Chloropropane	< 36.3	ug/Kg		5/17/2023 20:39
1,2-Dibromoethane	< 7.25	ug/Kg		5/17/2023 20:39
1,2-Dichlorobenzene	< 7.25	ug/Kg		5/17/2023 20:39
1,2-Dichloroethane	< 7.25	ug/Kg		5/17/2023 20:39
1,2-Dichloropropane	< 7.25	ug/Kg		5/17/2023 20:39
1,3-Dichlorobenzene	< 7.25	ug/Kg		5/17/2023 20:39
1,4-Dichlorobenzene	< 7.25	ug/Kg		5/17/2023 20:39
1,4-Dioxane	< 36.3	ug/Kg		5/17/2023 20:39
2-Butanone	< 36.3	ug/Kg		5/17/2023 20:39
2-Hexanone	< 18.1	ug/Kg		5/17/2023 20:39
4-Methyl-2-pentanone	< 18.1	ug/Kg		5/17/2023 20:39
Acetone	117	ug/Kg		5/17/2023 20:39
Benzene	< 7.25	ug/Kg		5/17/2023 20:39
Bromochloromethane	< 18.1	ug/Kg		5/17/2023 20:39
Bromodichloromethane	< 7.25	ug/Kg		5/17/2023 20:39
Bromoform	< 18.1	ug/Kg		5/17/2023 20:39

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Lab Project ID: 232065

Client: Lu Engineers, Inc.

Project Reference: 4229-57

Sample Identifier: T-1 Soil

Lab Sample ID: 232065-01

Date Sampled: 5/17/2023 15:40

Matrix: Soil

Date Received 5/17/2023

Bromomethane	< 7.25	ug/Kg	5/17/2023 20:39
Carbon disulfide	< 7.25	ug/Kg	5/17/2023 20:39
Carbon Tetrachloride	< 7.25	ug/Kg	5/17/2023 20:39
Chlorobenzene	< 7.25	ug/Kg	5/17/2023 20:39
Chloroethane	< 7.25	ug/Kg	5/17/2023 20:39
Chloroform	< 7.25	ug/Kg	5/17/2023 20:39
Chloromethane	< 7.25	ug/Kg	5/17/2023 20:39
cis-1,2-Dichloroethene	< 7.25	ug/Kg	5/17/2023 20:39
cis-1,3-Dichloropropene	< 7.25	ug/Kg	5/17/2023 20:39
Cyclohexane	< 36.3	ug/Kg	5/17/2023 20:39
Dibromochloromethane	< 7.25	ug/Kg	5/17/2023 20:39
Dichlorodifluoromethane	< 7.25	ug/Kg	5/17/2023 20:39
Ethylbenzene	< 7.25	ug/Kg	5/17/2023 20:39
Freon 113	< 7.25	ug/Kg	5/17/2023 20:39
Isopropylbenzene	< 7.25	ug/Kg	5/17/2023 20:39
m,p-Xylene	< 7.25	ug/Kg	5/17/2023 20:39
Methyl acetate	< 7.25	ug/Kg	5/17/2023 20:39
Methyl tert-butyl Ether	< 7.25	ug/Kg	5/17/2023 20:39
Methylcyclohexane	< 7.25	ug/Kg	5/17/2023 20:39
Methylene chloride	< 18.1	ug/Kg	5/17/2023 20:39
o-Xylene	< 7.25	ug/Kg	5/17/2023 20:39
Styrene	< 18.1	ug/Kg	5/17/2023 20:39
Tetrachloroethene	< 7.25	ug/Kg	5/17/2023 20:39
Toluene	< 7.25	ug/Kg	5/17/2023 20:39
trans-1,2-Dichloroethene	< 7.25	ug/Kg	5/17/2023 20:39
trans-1,3-Dichloropropene	< 7.25	ug/Kg	5/17/2023 20:39
Trichloroethene	< 7.25	ug/Kg	5/17/2023 20:39
Trichlorofluoromethane	< 7.25	ug/Kg	5/17/2023 20:39
Vinyl chloride	< 7.25	ug/Kg	5/17/2023 20:39

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: 4229-57

Sample Identifier: T-1 Soil

Lab Sample ID: 232065-01

Date Sampled: 5/17/2023 15:40

Matrix: Soil

Date Received 5/17/2023

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	105	72.3 - 128		5/17/2023 20:39
4-Bromofluorobenzene	92.4	70 - 123		5/17/2023 20:39
Pentafluorobenzene	100	80.7 - 124		5/17/2023 20:39
Toluene-D8	98.3	82.1 - 121		5/17/2023 20:39

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: z16945.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Lu Engineers, Inc.

Project Reference: 4229-57

Sample Identifier: T-1 Soil

Lab Sample ID: 232065-01A

Date Sampled: 5/17/2023 15:40

Matrix: TCLP Extract

Date Received 5/17/2023

TCLP Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Regulatory Limit</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	< 0.00200	mg/L	0.2		5/18/2023 13:08
Method Reference(s):	EPA 7470A EPA 1311				
Preparation Date:	5/18/2023				
Data File:	Hg230518B				

TCLP RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Regulatory Limit</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Arsenic	< 0.500	mg/L	5		5/18/2023 12:25
Barium	0.506	mg/L	100		5/18/2023 12:25
Cadmium	< 0.0250	mg/L	1		5/18/2023 12:25
Chromium	< 0.500	mg/L	5		5/18/2023 12:25
Lead	0.514	mg/L	5		5/18/2023 12:25
Selenium	< 0.200	mg/L	1		5/18/2023 12:25
Silver	< 0.500	mg/L	5		5/18/2023 12:25
Method Reference(s):	EPA 6010C EPA 1311 / 3005A				
Preparation Date:	5/18/2023				
Data File:	230518A				



Client: Lu Engineers, Inc.

Project Reference: 4229-57

Sample Identifier: T-3 Soil

Lab Sample ID: 232065-02

Date Sampled: 5/17/2023 15:35

Matrix: Soil

Date Received 5/17/2023

Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	0.00975	mg/Kg		5/18/2023 09:02
Method Reference(s):	EPA 7471B			
Preparation Date:	5/17/2023			
Data File:	Hg230518A			

RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Arsenic	3.13	mg/Kg		5/18/2023 10:24
Barium	30.7	mg/Kg		5/18/2023 10:24
Cadmium	< 0.259	mg/Kg		5/18/2023 10:24
Chromium	7.42	mg/Kg		5/18/2023 10:24
Lead	143	mg/Kg		5/18/2023 10:24
Selenium	< 1.04	mg/Kg		5/18/2023 10:24
Silver	< 0.519	mg/Kg		5/18/2023 10:24
Method Reference(s):	EPA 6010C EPA 3050B			
Preparation Date:	5/17/2023			
Data File:	230518A			

PCBs

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
PCB-1016	< 0.168	mg/Kg		5/18/2023 10:53
PCB-1221	< 0.168	mg/Kg		5/18/2023 10:53
PCB-1232	< 0.168	mg/Kg		5/18/2023 10:53
PCB-1242	< 0.168	mg/Kg		5/18/2023 10:53
PCB-1248	< 0.168	mg/Kg		5/18/2023 10:53
PCB-1254	< 0.168	mg/Kg		5/18/2023 10:53
PCB-1260	< 0.168	mg/Kg		5/18/2023 10:53
PCB-1262	< 0.168	mg/Kg		5/18/2023 10:53
PCB-1268	< 0.168	mg/Kg		5/18/2023 10:53

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: 4229-57

Sample Identifier: T-3 Soil

Lab Sample ID: 232065-02

Date Sampled: 5/17/2023 15:35

Matrix: Soil

Date Received 5/17/2023

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Tetrachloro-m-xylene	55.1	10 - 110		5/18/2023 10:53

Method Reference(s): EPA 8082A

EPA 3546

Preparation Date: 5/17/2023

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1,1-Trichloroethane	< 96.4	ug/Kg		5/17/2023 21:18
1,1,2,2-Tetrachloroethane	< 96.4	ug/Kg		5/17/2023 21:18
1,1,2-Trichloroethane	< 96.4	ug/Kg		5/17/2023 21:18
1,1-Dichloroethane	< 96.4	ug/Kg		5/17/2023 21:18
1,1-Dichloroethene	< 96.4	ug/Kg		5/17/2023 21:18
1,2,3-Trichlorobenzene	< 241	ug/Kg		5/17/2023 21:18
1,2,4-Trichlorobenzene	< 241	ug/Kg		5/17/2023 21:18
1,2-Dibromo-3-Chloropropane	< 482	ug/Kg		5/17/2023 21:18
1,2-Dibromoethane	< 96.4	ug/Kg		5/17/2023 21:18
1,2-Dichlorobenzene	< 96.4	ug/Kg		5/17/2023 21:18
1,2-Dichloroethane	< 96.4	ug/Kg		5/17/2023 21:18
1,2-Dichloropropane	< 96.4	ug/Kg		5/17/2023 21:18
1,3-Dichlorobenzene	< 96.4	ug/Kg		5/17/2023 21:18
1,4-Dichlorobenzene	< 96.4	ug/Kg		5/17/2023 21:18
1,4-Dioxane	< 482	ug/Kg		5/17/2023 21:18
2-Butanone	< 482	ug/Kg		5/17/2023 21:18
2-Hexanone	< 241	ug/Kg		5/17/2023 21:18
4-Methyl-2-pentanone	< 241	ug/Kg		5/17/2023 21:18
Acetone	1350	ug/Kg		5/17/2023 21:18
Benzene	< 96.4	ug/Kg		5/17/2023 21:18
Bromochloromethane	< 241	ug/Kg		5/17/2023 21:18
Bromodichloromethane	< 96.4	ug/Kg		5/17/2023 21:18
Bromoform	< 241	ug/Kg		5/17/2023 21:18

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Lab Project ID: 232065

Client: Lu Engineers, Inc.

Project Reference: 4229-57

Sample Identifier: T-3 Soil

Lab Sample ID: 232065-02

Date Sampled: 5/17/2023 15:35

Matrix: Soil

Date Received 5/17/2023

Bromomethane	< 96.4	ug/Kg	5/17/2023 21:18
Carbon disulfide	< 96.4	ug/Kg	5/17/2023 21:18
Carbon Tetrachloride	< 96.4	ug/Kg	5/17/2023 21:18
Chlorobenzene	< 96.4	ug/Kg	5/17/2023 21:18
Chloroethane	< 96.4	ug/Kg	5/17/2023 21:18
Chloroform	< 96.4	ug/Kg	5/17/2023 21:18
Chloromethane	< 96.4	ug/Kg	5/17/2023 21:18
cis-1,2-Dichloroethene	< 96.4	ug/Kg	5/17/2023 21:18
cis-1,3-Dichloropropene	< 96.4	ug/Kg	5/17/2023 21:18
Cyclohexane	2820	ug/Kg	5/17/2023 21:18
Dibromochloromethane	< 96.4	ug/Kg	5/17/2023 21:18
Dichlorodifluoromethane	< 96.4	ug/Kg	5/17/2023 21:18
Ethylbenzene	336	ug/Kg	5/17/2023 21:18
Freon 113	< 96.4	ug/Kg	5/17/2023 21:18
Isopropylbenzene	< 96.4	ug/Kg	5/17/2023 21:18
m,p-Xylene	1050	ug/Kg	5/17/2023 21:18
Methyl acetate	< 96.4	ug/Kg	5/17/2023 21:18
Methyl tert-butyl Ether	< 96.4	ug/Kg	5/17/2023 21:18
Methylcyclohexane	3930	ug/Kg	5/17/2023 21:18
Methylene chloride	< 241	ug/Kg	5/17/2023 21:18
o-Xylene	654	ug/Kg	5/17/2023 21:18
Styrene	< 241	ug/Kg	5/17/2023 21:18
Tetrachloroethene	< 96.4	ug/Kg	5/17/2023 21:18
Toluene	< 96.4	ug/Kg	5/17/2023 21:18
trans-1,2-Dichloroethene	< 96.4	ug/Kg	5/17/2023 21:18
trans-1,3-Dichloropropene	< 96.4	ug/Kg	5/17/2023 21:18
Trichloroethene	< 96.4	ug/Kg	5/17/2023 21:18
Trichlorofluoromethane	< 96.4	ug/Kg	5/17/2023 21:18
Vinyl chloride	< 96.4	ug/Kg	5/17/2023 21:18

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: 4229-57

Sample Identifier: T-3 Soil

Lab Sample ID: 232065-02

Date Sampled: 5/17/2023 15:35

Matrix: Soil

Date Received 5/17/2023

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	96.9	72.3 - 128		5/17/2023 21:18
4-Bromofluorobenzene	96.3	70 - 123		5/17/2023 21:18
Pentafluorobenzene	101	80.7 - 124		5/17/2023 21:18
Toluene-D8	102	82.1 - 121		5/17/2023 21:18

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: z16947.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Lu Engineers, Inc.

Project Reference: 4229-57

Sample Identifier: T-3 Soil

Lab Sample ID: 232065-02A

Date Sampled: 5/17/2023 15:35

Matrix: TCLP Extract

Date Received 5/17/2023

TCLP Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Regulatory Limit</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	< 0.00200	mg/L	0.2		5/18/2023 13:10
Method Reference(s):	EPA 7470A EPA 1311				
Preparation Date:	5/18/2023				
Data File:	Hg230518B				

TCLP RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Regulatory Limit</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Arsenic	< 0.500	mg/L	5		5/18/2023 12:28
Barium	1.20	mg/L	100		5/18/2023 12:28
Cadmium	< 0.0250	mg/L	1		5/18/2023 12:28
Chromium	< 0.500	mg/L	5		5/18/2023 12:28
Lead	< 0.500	mg/L	5		5/18/2023 12:28
Selenium	< 0.200	mg/L	1		5/18/2023 12:28
Silver	< 0.500	mg/L	5		5/18/2023 12:28
Method Reference(s):	EPA 6010C EPA 1311 / 3005A				
Preparation Date:	5/18/2023				
Data File:	230518A				



Client: Lu Engineers, Inc.

Project Reference: 4229-57

Sample Identifier: T-6 Soil

Lab Sample ID: 232065-03

Date Sampled: 5/17/2023 15:30

Matrix: Soil

Date Received 5/17/2023

Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	0.00854	mg/Kg		5/18/2023 09:04
Method Reference(s):	EPA 7471B			
Preparation Date:	5/17/2023			
Data File:	Hg230518A			

RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Arsenic	3.87	mg/Kg		5/18/2023 10:27
Barium	37.5	mg/Kg		5/18/2023 10:27
Cadmium	< 0.272	mg/Kg		5/18/2023 10:27
Chromium	8.73	mg/Kg		5/18/2023 10:27
Lead	11.3	mg/Kg		5/18/2023 10:27
Selenium	< 1.09	mg/Kg		5/18/2023 10:27
Silver	< 0.544	mg/Kg		5/18/2023 10:27
Method Reference(s):	EPA 6010C EPA 3050B			
Preparation Date:	5/17/2023			
Data File:	230518A			

PCBs

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
PCB-1016	< 0.177	mg/Kg		5/18/2023 11:16
PCB-1221	< 0.177	mg/Kg		5/18/2023 11:16
PCB-1232	< 0.177	mg/Kg		5/18/2023 11:16
PCB-1242	< 0.177	mg/Kg		5/18/2023 11:16
PCB-1248	< 0.177	mg/Kg		5/18/2023 11:16
PCB-1254	< 0.177	mg/Kg		5/18/2023 11:16
PCB-1260	< 0.177	mg/Kg		5/18/2023 11:16
PCB-1262	< 0.177	mg/Kg		5/18/2023 11:16
PCB-1268	< 0.177	mg/Kg		5/18/2023 11:16

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: 4229-57

Sample Identifier: T-6 Soil

Lab Sample ID: 232065-03

Date Sampled: 5/17/2023 15:30

Matrix: Soil

Date Received 5/17/2023

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Tetrachloro-m-xylene	47.4	10 - 110		5/18/2023 11:16

Method Reference(s): EPA 8082A

EPA 3546

Preparation Date: 5/17/2023

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1,1-Trichloroethane	< 6.72	ug/Kg		5/17/2023 20:58
1,1,2,2-Tetrachloroethane	< 6.72	ug/Kg		5/17/2023 20:58
1,1,2-Trichloroethane	< 6.72	ug/Kg		5/17/2023 20:58
1,1-Dichloroethane	< 6.72	ug/Kg		5/17/2023 20:58
1,1-Dichloroethene	< 6.72	ug/Kg		5/17/2023 20:58
1,2,3-Trichlorobenzene	< 16.8	ug/Kg		5/17/2023 20:58
1,2,4-Trichlorobenzene	< 16.8	ug/Kg		5/17/2023 20:58
1,2-Dibromo-3-Chloropropane	< 33.6	ug/Kg		5/17/2023 20:58
1,2-Dibromoethane	< 6.72	ug/Kg		5/17/2023 20:58
1,2-Dichlorobenzene	< 6.72	ug/Kg		5/17/2023 20:58
1,2-Dichloroethane	< 6.72	ug/Kg		5/17/2023 20:58
1,2-Dichloropropane	< 6.72	ug/Kg		5/17/2023 20:58
1,3-Dichlorobenzene	< 6.72	ug/Kg		5/17/2023 20:58
1,4-Dichlorobenzene	< 6.72	ug/Kg		5/17/2023 20:58
1,4-Dioxane	< 33.6	ug/Kg		5/17/2023 20:58
2-Butanone	< 33.6	ug/Kg		5/17/2023 20:58
2-Hexanone	< 16.8	ug/Kg		5/17/2023 20:58
4-Methyl-2-pentanone	< 16.8	ug/Kg		5/17/2023 20:58
Acetone	112	ug/Kg		5/17/2023 20:58
Benzene	< 6.72	ug/Kg		5/17/2023 20:58
Bromochloromethane	< 16.8	ug/Kg		5/17/2023 20:58
Bromodichloromethane	< 6.72	ug/Kg		5/17/2023 20:58
Bromoform	< 16.8	ug/Kg		5/17/2023 20:58

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Lab Project ID: 232065

Client: Lu Engineers, Inc.

Project Reference: 4229-57

Sample Identifier: T-6 Soil

Lab Sample ID: 232065-03

Date Sampled: 5/17/2023 15:30

Matrix: Soil

Date Received 5/17/2023

Bromomethane	< 6.72	ug/Kg	5/17/2023 20:58
Carbon disulfide	< 6.72	ug/Kg	5/17/2023 20:58
Carbon Tetrachloride	< 6.72	ug/Kg	5/17/2023 20:58
Chlorobenzene	< 6.72	ug/Kg	5/17/2023 20:58
Chloroethane	< 6.72	ug/Kg	5/17/2023 20:58
Chloroform	< 6.72	ug/Kg	5/17/2023 20:58
Chloromethane	< 6.72	ug/Kg	5/17/2023 20:58
cis-1,2-Dichloroethene	< 6.72	ug/Kg	5/17/2023 20:58
cis-1,3-Dichloropropene	< 6.72	ug/Kg	5/17/2023 20:58
Cyclohexane	< 33.6	ug/Kg	5/17/2023 20:58
Dibromochloromethane	< 6.72	ug/Kg	5/17/2023 20:58
Dichlorodifluoromethane	< 6.72	ug/Kg	5/17/2023 20:58
Ethylbenzene	< 6.72	ug/Kg	5/17/2023 20:58
Freon 113	< 6.72	ug/Kg	5/17/2023 20:58
Isopropylbenzene	< 6.72	ug/Kg	5/17/2023 20:58
m,p-Xylene	< 6.72	ug/Kg	5/17/2023 20:58
Methyl acetate	< 6.72	ug/Kg	5/17/2023 20:58
Methyl tert-butyl Ether	< 6.72	ug/Kg	5/17/2023 20:58
Methylcyclohexane	< 6.72	ug/Kg	5/17/2023 20:58
Methylene chloride	< 16.8	ug/Kg	5/17/2023 20:58
o-Xylene	< 6.72	ug/Kg	5/17/2023 20:58
Styrene	< 16.8	ug/Kg	5/17/2023 20:58
Tetrachloroethene	< 6.72	ug/Kg	5/17/2023 20:58
Toluene	< 6.72	ug/Kg	5/17/2023 20:58
trans-1,2-Dichloroethene	< 6.72	ug/Kg	5/17/2023 20:58
trans-1,3-Dichloropropene	< 6.72	ug/Kg	5/17/2023 20:58
Trichloroethene	< 6.72	ug/Kg	5/17/2023 20:58
Trichlorofluoromethane	< 6.72	ug/Kg	5/17/2023 20:58
Vinyl chloride	< 6.72	ug/Kg	5/17/2023 20:58

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: 4229-57

Sample Identifier: T-6 Soil

Lab Sample ID: 232065-03

Date Sampled: 5/17/2023 15:30

Matrix: Soil

Date Received 5/17/2023

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	101	72.3 - 128		5/17/2023 20:58
4-Bromofluorobenzene	92.0	70 - 123		5/17/2023 20:58
Pentafluorobenzene	96.6	80.7 - 124		5/17/2023 20:58
Toluene-D8	98.0	82.1 - 121		5/17/2023 20:58

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z16946.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Lu Engineers, Inc.

Project Reference: 4229-57

Sample Identifier: T-6 Soil

Lab Sample ID: 232065-03A

Date Sampled: 5/17/2023 15:30

Matrix: TCLP Extract

Date Received 5/17/2023

TCLP Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Regulatory Limit</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	< 0.00200	mg/L	0.2		5/18/2023 13:12
Method Reference(s):	EPA 7470A EPA 1311				
Preparation Date:	5/18/2023				
Data File:	Hg230518B				

TCLP RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Regulatory Limit</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Arsenic	< 0.500	mg/L	5		5/18/2023 12:31
Barium	< 0.500	mg/L	100		5/18/2023 12:31
Cadmium	< 0.0250	mg/L	1		5/18/2023 12:31
Chromium	< 0.500	mg/L	5		5/18/2023 12:31
Lead	< 0.500	mg/L	5		5/18/2023 12:31
Selenium	< 0.200	mg/L	1		5/18/2023 12:31
Silver	< 0.500	mg/L	5		5/18/2023 12:31
Method Reference(s):	EPA 6010C EPA 1311 / 3005A				
Preparation Date:	5/18/2023				
Data File:	230518A				



Method Blank Report

Client: Lu Engineers, Inc.
Project Reference: 4229-57
Lab Project ID: 232065
Matrix: Soil

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	<0.00750	mg/Kg		5/18/2023 08:49

Method Reference(s): EPA 7471B
Preparation Date: 5/17/2023
Data File: Hg230518A
QC Batch ID: QC230517Hgsoil2
QC Number: Blk 1



QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Lu Engineers, Inc.

Project Reference: 4229-57

Lab Project ID: 232065

Matrix: Soil

Mercury

Analyte	LCS	LCSD	Spike	LCS	LCSD	LCS %	LCSD %	% Rec	LCS	LCSD	Relative %	RPD	RPD	Date
Added	Added	Units	Result	Result	Recovery	Recovery	Limits	Outliers	Outliers	Difference	Limit	Outliers	Analyzed	
Mercury	0.0800	0.0787	mg/Kg	0.0834	0.0823	104	105	80 - 120			0.361	20		5/18/2023

Method Reference(s): EPA 7471B
 Preparation Date: 5/17/2023
 Data File: Hg230518A
 QC Number: 1
 QC Batch ID: QC230517Hgsoil2

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



QC Report for Sample Spike and Sample Duplicate

Client: Lu Engineers, Inc.

Lab Project ID: 232065

Project Reference: 4229-57

Lab Sample ID: 232065-01

Date Sampled: 5/17/2023

Sample Identifier: T-1 Soil

Date Received: 5/17/2023

Matrix: Soil

Mercury

Analyte	Sample Results	Result Units	Spike Added	Spike Result	Spike % Recovery	% Rec Limits	Spike Outliers	Duplicate Result	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Mercury	0.0517	mg/Kg	0.0874	0.297	281	75 - 125	*	0.0371	32.9	20	*	5/18/2023

Method Reference(s): EPA 7471B

Preparation Date: 5/17/2023

QC Batch ID: Hg230518A

QC230517Hgsoil2

NC = Not Calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, May 18, 2023



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"H" = Denotes a parameter analyzed outside of holding time.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES

REPORT TO: **INVOICE TO:**

COMPANY: **Ev Engineers** ADDRESS: **280 E Broad Street 170** CITY: **Rochester** STATE: **NY** ZIP: **14604**

PHONE: **585-385-7417** FAX: **585-385-7417** ATTN: **Ben Seibert Greg Andrus**

COMPANY: **SAME** ADDRESS: **STATE: ZIP:**

PHONE: **STATE: ZIP:** FAX: **ATTN:**

LAB PROJECT ID: **232005**

Quotation #: **232005**

EMAIL: **SAVVA**

PROJECT REFERENCE: **4229-57**

Matrix Codes: **AQ - Aqueous Liquid** **WA - Water** **DW - Drinking Water** **SO - Soil** **SD - Solid** **WP - Wipe** **OL - Oil**
NA - Non-Aqueous Liquid **WG - Groundwater** **WW - Wastewater** **SL - Sludge** **PT - Paint** **CK - Caulk** **AR - Air**

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRADES	SAMPLE IDENTIFIER	MATERIALS	NO. OF TESTS	NO. OF SAMPLES	TESTS	REMARKS	PARADIGM LAB SAMPLE NUMBER
5/17/23	15:40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	T-1 Soil		4	4	TEL VOC RZTA Metals PCBs TCLP RZTA M		01A
5/17/23	15:35	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	T-3 Soil		4	4			02A
5/17/23	15:30	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	T-6 Soil		4	4		A for TCLP EXTRACT ON 5/17/23	03A

Turnaround Time

Availability contingent upon lab approval; additional fees may apply.

Standard 5 day None Required None Required

10 day Batch QC Basic EDD

Rush 3 day Category A NYSDEC EDD

Rush 2 day Category B

Rush 1 day

Other Other Other EDD

please indicate date needed: **ASAP** please indicate package needed: please indicate EDD needed:

Report Supplements

Sampled By: **[Signature]** Date/Time: **05/17/23 15:50** Total Cost:

Requisitioned By: **[Signature]** Date/Time: **05/17/23 15:50**

Received By: **[Signature]** Date/Time: **5/17/23 1550**

Received @ Lab By: **[Signature]** Date/Time: **5/17/23 1553**

Other Other

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

2062



Chain of Custody Supplement

Client: LU

Completed by: ZF

Lab Project ID: 232065

Date: 5/17/23

Sample Condition Requirements Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> S035	<input type="checkbox"/>
Comments	_____		
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Preservation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Temperature	<input type="checkbox"/>	<input checked="" type="checkbox"/> Hg PCB	<input checked="" type="checkbox"/> Met
Comments	14°C _____		
Compliant Sample Quantity/Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Lu Engineers, Inc.

For Lab Project ID

232228

Referencing

4229-57

Prepared

Friday, June 2, 2023

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Emily Faumen

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Friday, June 2, 2023

Page 1 of 9



Client: Lu Engineers, Inc.

Project Reference: 4229-57

Sample Identifier: Sidewall - W

Lab Sample ID: 232228-01

Date Sampled: 5/23/2023 13:00

Matrix: Soil

Date Received 5/25/2023

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 8.03	ug/Kg		6/1/2023 16:15
1,3,5-Trimethylbenzene	13.2	ug/Kg		6/1/2023 16:15
Benzene	< 8.03	ug/Kg		6/1/2023 16:15
Ethylbenzene	< 8.03	ug/Kg		6/1/2023 16:15
Isopropylbenzene	< 8.03	ug/Kg		6/1/2023 16:15
m,p-Xylene	< 8.03	ug/Kg		6/1/2023 16:15
Methyl tert-butyl Ether	< 8.03	ug/Kg		6/1/2023 16:15
Naphthalene	< 20.1	ug/Kg		6/1/2023 16:15
n-Butylbenzene	< 8.03	ug/Kg		6/1/2023 16:15
n-Propylbenzene	< 8.03	ug/Kg		6/1/2023 16:15
o-Xylene	< 8.03	ug/Kg		6/1/2023 16:15
p-Isopropyltoluene	< 8.03	ug/Kg		6/1/2023 16:15
sec-Butylbenzene	< 8.03	ug/Kg		6/1/2023 16:15
tert-Butylbenzene	< 8.03	ug/Kg		6/1/2023 16:15
Toluene	< 8.03	ug/Kg		6/1/2023 16:15

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	111	72.3 - 128		6/1/2023 16:15
4-Bromofluorobenzene	101	70 - 123		6/1/2023 16:15
Pentafluorobenzene	101	80.7 - 124		6/1/2023 16:15
Toluene-D8	103	82.1 - 121		6/1/2023 16:15

Method Reference(s): EPA 8260C

EPA 5035A - L

Data File: z17273.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Lu Engineers, Inc.

Project Reference: 4229-57

Sample Identifier: Sidewall - S

Lab Sample ID: 232228-02

Date Sampled: 5/23/2023 13:00

Matrix: Soil

Date Received 5/25/2023

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 8.58	ug/Kg		6/1/2023 16:34
1,3,5-Trimethylbenzene	17.9	ug/Kg		6/1/2023 16:34
Benzene	< 8.58	ug/Kg		6/1/2023 16:34
Ethylbenzene	< 8.58	ug/Kg		6/1/2023 16:34
Isopropylbenzene	< 8.58	ug/Kg		6/1/2023 16:34
m,p-Xylene	< 8.58	ug/Kg		6/1/2023 16:34
Methyl tert-butyl Ether	< 8.58	ug/Kg		6/1/2023 16:34
Naphthalene	< 21.4	ug/Kg		6/1/2023 16:34
n-Butylbenzene	< 8.58	ug/Kg		6/1/2023 16:34
n-Propylbenzene	< 8.58	ug/Kg		6/1/2023 16:34
o-Xylene	< 8.58	ug/Kg		6/1/2023 16:34
p-Isopropyltoluene	< 8.58	ug/Kg		6/1/2023 16:34
sec-Butylbenzene	< 8.58	ug/Kg		6/1/2023 16:34
tert-Butylbenzene	< 8.58	ug/Kg		6/1/2023 16:34
Toluene	< 8.58	ug/Kg		6/1/2023 16:34

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	106	72.3 - 128		6/1/2023 16:34
4-Bromofluorobenzene	100	70 - 123		6/1/2023 16:34
Pentafluorobenzene	100	80.7 - 124		6/1/2023 16:34
Toluene-D8	105	82.1 - 121		6/1/2023 16:34

Method Reference(s): EPA 8260C

EPA 5035A - L

Data File: z17274.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Lu Engineers, Inc.

Project Reference: 4229-57

Sample Identifier: Bottom - SW

Lab Sample ID: 232228-03

Date Sampled: 5/23/2023 13:30

Matrix: Soil

Date Received 5/25/2023

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	21.9	ug/Kg		6/1/2023 16:53
1,3,5-Trimethylbenzene	10.9	ug/Kg		6/1/2023 16:53
Benzene	< 8.48	ug/Kg		6/1/2023 16:53
Ethylbenzene	< 8.48	ug/Kg		6/1/2023 16:53
Isopropylbenzene	< 8.48	ug/Kg		6/1/2023 16:53
m,p-Xylene	< 8.48	ug/Kg		6/1/2023 16:53
Methyl tert-butyl Ether	< 8.48	ug/Kg		6/1/2023 16:53
Naphthalene	22.8	ug/Kg		6/1/2023 16:53
n-Butylbenzene	< 8.48	ug/Kg		6/1/2023 16:53
n-Propylbenzene	< 8.48	ug/Kg		6/1/2023 16:53
o-Xylene	< 8.48	ug/Kg		6/1/2023 16:53
p-Isopropyltoluene	< 8.48	ug/Kg		6/1/2023 16:53
sec-Butylbenzene	< 8.48	ug/Kg		6/1/2023 16:53
tert-Butylbenzene	< 8.48	ug/Kg		6/1/2023 16:53
Toluene	< 8.48	ug/Kg		6/1/2023 16:53

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	104	72.3 - 128		6/1/2023 16:53
4-Bromofluorobenzene	93.6	70 - 123		6/1/2023 16:53
Pentafluorobenzene	99.5	80.7 - 124		6/1/2023 16:53
Toluene-D8	99.4	82.1 - 121		6/1/2023 16:53

Method Reference(s): EPA 8260C

EPA 5035A - L

Data File: z17275.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Lu Engineers, Inc.

Project Reference: 4229-57

Sample Identifier: Bottom - Tanks

Lab Sample ID: 232228-04

Date Sampled: 5/23/2023 13:40

Matrix: Soil

Date Received 5/25/2023

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	23.4	ug/Kg		6/1/2023 17:12
1,3,5-Trimethylbenzene	< 7.43	ug/Kg		6/1/2023 17:12
Benzene	< 7.43	ug/Kg		6/1/2023 17:12
Ethylbenzene	< 7.43	ug/Kg		6/1/2023 17:12
Isopropylbenzene	< 7.43	ug/Kg		6/1/2023 17:12
m,p-Xylene	< 7.43	ug/Kg		6/1/2023 17:12
Methyl tert-butyl Ether	< 7.43	ug/Kg		6/1/2023 17:12
Naphthalene	< 18.6	ug/Kg		6/1/2023 17:12
n-Butylbenzene	< 7.43	ug/Kg		6/1/2023 17:12
n-Propylbenzene	< 7.43	ug/Kg		6/1/2023 17:12
o-Xylene	< 7.43	ug/Kg		6/1/2023 17:12
p-Isopropyltoluene	< 7.43	ug/Kg		6/1/2023 17:12
sec-Butylbenzene	< 7.43	ug/Kg		6/1/2023 17:12
tert-Butylbenzene	< 7.43	ug/Kg		6/1/2023 17:12
Toluene	< 7.43	ug/Kg		6/1/2023 17:12

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	109	72.3 - 128		6/1/2023 17:12
4-Bromofluorobenzene	91.3	70 - 123		6/1/2023 17:12
Pentafluorobenzene	99.4	80.7 - 124		6/1/2023 17:12
Toluene-D8	97.6	82.1 - 121		6/1/2023 17:12

Method Reference(s): EPA 8260C

EPA 5035A - L

Data File: z17276.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"H" = Denotes a parameter analyzed outside of holding time.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

2082



Chain of Custody Supplement

Client: LU

Completed by: ZF

Lab Project ID: 23228

Date: SI 25/23

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<input type="checkbox"/>	<input checked="" type="checkbox"/> 9035	<input type="checkbox"/>
Comments	_____		
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Preservation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	2°C		
Compliant Sample Quantity/Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		

Attachment C

Photo Pages

Site Photographs
536 Central Avenue – UST Closure



Photo No. 1 Tank Bed Area Prior to Excavation



Photo No. 2 Start of UST Excavation



Photo No. 3 Excavation and Stockpiling of Clean Overburden



Photo No. 4 Uncovering USTs



Photo No. 5 Extraction of Water from Within UST-07



Photo No. 6 Inerting Tank Atmospheres with Dry Ice

Site Photographs
536 Central Avenue – UST Closure



Photo No. 7 Removal of UST-07



Photo No. 8 Non-impacted Soils from Beneath UST-07



Photo No. 9 Removal of UST-06



Photo No. 10 Non-impacted Soils from Beneath UST-06



Photo No. 11 Removal of UST-05 (UST-06 & 07 Pictured on Trailer)



Photo No. 12 Non-impacted Soils from Beneath UST-05

Site Photographs
536 Central Avenue – UST Closure



Photo No. 13 Sludge Extraction from UST-03 & 04



Photo No. 14 Interior Cleaning of UST-04 (UST-03 Pictured Left)



Photo No. 15 UST-04 After Interior Cleaning



Photo No. 16 UST-03 After Interior Cleaning



Photo No. 17 Removal of UST-04



Photo No. 18 Bottom of UST-04 in Good Condition

Site Photographs
536 Central Avenue – UST Closure



Photo No. 19 Removal of UST-03



Photo No. 20 Apparent Geoprobe Hole on the Side of UST-03



Photo No. 21 Soils from Beneath UST-03 & 04



Photo No. 22 Removal of UST-02



Photo No. 23 Removal of UST-01



Photo No. 24 Excavation of Soils Beneath the Former USTs

Site Photographs
536 Central Avenue – UST Closure



Photo No. 25 Live Loading of Soils from Beneath the Former USTs



Photo No. 26 ORC Powder Installed Beneath Former UST-05, 06 & 07



Photo No. 27 ORC Powder Installed Beneath Former UST-03 & 04



Photo No. 28 Excavation Expansion to Address Impacted Soils



Photo No. 29 ORC Installed in Southwest Corner of the Excavation



Photo No. 30 Stone Imported for Surface Restoration During Backfill

Site Photographs
536 Central Avenue – UST Closure



Photo No. 31 Excavation Backfill and Surface Restoration Process



Photo No. 32 Additional Stone Import



Photo No. 33 Loading Excess Overburden Soils for Disposal



Photo No. 34 Surface Restoration



Photo No. 35 Example Hazardous Waste Drum Labeling



Photo No. 36 Eleven Drums of Hazardous Waste Loaded for Transportation and Off-Site Disposal

SETTLEMENT

METALICO ROCHESTER, INC.

1515 SCOTTSVILLE RD.
 ROCHESTER, NY 14623

Account: TRE500
 TREC ENVIRONMENTAL
 1018 WASHINGTON STREET
 SPENCERPORT, NY 14559

06/05/2023

Page 1 of 1

Receiver #	Dispatch # Description	Recv Date	Reference				Net	Price / UM	Amount
				Gross	Tare	Deduct			
465773	465773 SHREDDER FEED Comment: .	05/17/2023	465773	14,360	12,120	0	2,240	195.00 / GT	195.00
							Invoice Totals		195.00
465795	465795 SHREDDER FEED Comment: .	05/17/2023	465795	14,780	12,100	0	2,680	195.00 / GT	233.30
							Invoice Totals		233.30
465811	465811 SHREDDER FEED	05/17/2023	465811	15,940	12,820	0	3,120	195.00 / GT	271.62
							Invoice Totals		271.62
							Grand Totals	8,040	699.92

Attachment D-2

Non-Hazardous Soil Disposal Documentation



Waste Management Mill Seat Landfill
 303 Brew Rd.
 Bergen, NY, 14416
 Ph: (585) 494-3000

Original
 Ticket# 1141280

Customer Name TRECENVIRONMENTAL-126492NY TR Carrier MJD M J DREHER TRUCKING, INC.
 Ticket Date 05/22/2023 Vehicle# 21 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver 12/21/2023
 Hauling Ticket# Check#
 Route Billing # 0002489
 State Waste Code Gen EPA ID
 Manifest 12696786
 Destination Grid X20
 PO
 Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)
 Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

	Time	Scale	Operator	Inbound	Gross	
In	05/22/2023 09:16:15	Scale1	tjacks10		Tare	77660 lb
Out	05/22/2023 09:16:15		tjacks10		Net	28820 lb
					Tons	48840 lb
						24.42

Comments This vehicle was over the legal weight limit .

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC-	100	24.42	Tons				MON

Total Tax
 Total Ticket

Driver's Signature _____



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of				
3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE FORBES 30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614	Generator's Site Address (if different than mailing): 536 CENTRAL AVE. ROCHESTER, NY 14605		A. Manifest Number WMNA 12696786				
4. Generator's Phone 585-428-7892			B. State Generator's ID				
5. Transporter 1 Company Name MJ Drive	6. US EPA ID Number	C. State Transporter's ID					
7. Transporter 2 Company Name	8. US EPA ID Number	D. Transporter's Phone					
9. Designated Facility Name and Site Address WM OF NEW YORK AT MILL SEAT LANDFILL 303 BREW RD. BERGEN, NY 14416	10. US EPA ID Number	E. State Transporter's ID					
		F. Transporter's Phone					
11. Description of Waste Materials		G. State Facility ID					
		H. State Facility Phone 585-494-3000					
a. NON DOT REGULATED MATERIAL WM Profile # 126492NY		12. Containers					
		No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments	
b. Waste Name		No.	Type	Total Qty.	Wt./Vol.		Comments
c. Waste Name		No.	Type	Total Qty.	Wt./Vol.	Comments	
d. Waste Name		No.	Type	Total Qty.	Wt./Vol.		Comments
J. Additional Descriptions for Materials Listed Above		K. Disposal Location					
		Cell		Level			
		Grid					
15. Special Handling Instructions and Additional Information 126492NY – GASOLINE CONTAMINATED URBAN FILL/DEBRIS WEIGHT IS ESTIMATED							
Purchase Order # EMERGENCY CONTACT / PHONE NO.:							
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name Jane Forbes		Signature <i>Jane Forbes</i>			Month 5	Day 22	Year 23
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name MARY Rowley			Signature <i>Mary Rowley</i>		
					Month 5	Day 22	Year 23
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name			Signature		
					Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name Termaine JACKSON		Signature <i>Termaine Jackson</i>			Month 5	Day 22	Year 23

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY

Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY

GENERATOR

TRANSPORTER

FACILITY

MJD 21



Waste Management Mill Seat Landfill
 303 Brew Rd.
 Bergen, NY, 14416
 Ph: (585) 494-3000

Original
 Ticket# 1141323

Customer Name TRECENVIRONMENTAL-126492NY TR Carrier MJD M J DREHER TRUCKING, INC.
 Ticket Date 05/22/2023 Vehicle# 21 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver 12/21/2023
 Hauling Ticket# Check#
 Route Billing # 0002489
 State Waste Code Gen EPA ID
 Manifest 12696788
 Destination Grid X20
 PO
 Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)
 Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

	Time	Scale	Operator	Inbound	Gross	72880 lb
In	05/22/2023 10:46:55	Scale1	tjacks10		Tare	28820 lb
Out	05/22/2023 10:46:55		tjacks10		Net	44060 lb
					Tons	22.03

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC-	100	22.03	Tons				MON

Total Tax
 Total Ticket

Driver's Signature _____



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. <small>Generator's ID</small>	Manifest Doc No. <small>Number</small>	2. Page 1 of <small>Page</small>	MJD - 21		
3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE FORBES 30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614		Generator's Site Address (If different than mailing): 536 CENTRAL AVE. ROCHESTER, NY 14605		A. Manifest Number WMNA	12696788		
4. Generator's Phone 585-428-7892				B. State Generator's ID <small>State department's ID</small>			
5. Transporter 1 Company Name MJD Decher		6. US EPA ID Number <small>US EPA ID Number</small>		C. State Transporter's ID <small>State Transporter ID</small>			
7. Transporter 2 Company Name <small>Transporter 2 Company Name</small>		8. US EPA ID Number <small>US EPA ID Number</small>		D. Transporter's Phone <small>Transporter 1 Phone</small>			
9. Designated Facility Name and Site Address WM OF NEW YORK AT MILL SEAT LANDFILL 303 BREW RD. BERGEN, NY 14416		10. US EPA ID Number <small>US EPA ID Number</small>		E. State Transporter's ID <small>State Transporter ID</small>			
				F. Transporter's Phone <small>Transporter 2 Phone</small>			
				G. State Facility ID <small>State Facility ID</small>			
				H. State Facility Phone 585-494-3000 Facility <small>Phone</small>			
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
	a. NON DOT REGULATED MATERIAL		No.	Type	Total Qty.	Wt./Vol.	
	WM Profile # 126492NY						
	b. Waste Name		No.	Type	Total Qty.	Wt./Vol.	Comments
	WM Profile # <small>WM Profile Number</small>						
	c. Waste Name		No.	Type	Total Qty.	Wt./Vol.	Comments
	WM Profile # <small>WM Profile Number</small>						
d. Waste Name		No.	Type	Total Qty.	Wt./Vol.	Comments	
WM Profile # <small>WM Profile Number</small>							
J. Additional Descriptions for Materials Listed Above			K. Disposal Location				
			Cell		Level		
			Grid				
15. Special Handling Instructions and Additional Information 126492NY - GASOLINE CONTAMINATED URBAN FILL/DEBRIS							
WEIGHT IS ESTIMATED <small>(Special)</small>							
Purchase Order # <small>Purchase Order Number</small>				EMERGENCY CONTACT / PHONE NO.: <small>Emergency Contact</small>			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name Jane Forbes		Signature <i>Jane Forbes</i>			Month 5	Day 22	Year 23
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed Name Gay Rowley		Signature <i>Gay Rowley</i>			Month 5	Day 22	Year 23
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed Name		Signature			Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name Thermaine Jackson		Signature <i>Thermaine Jackson</i>			Month 5	Day 22	Year 23

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY

Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Waste Management Mill Seat Landfill
 303 Brew Rd.
 Bergen, NY, 14416
 Ph: (585) 494-3000

Original
 Ticket# 1141250

Customer Name TRECENVIRONMENTAL-126492NY TR Carrier MJD M J DREHER TRUCKING, INC.
 Ticket Date 05/22/2023 Vehicle# 21 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver 12/21/2023
 Hauling Ticket# Check#
 Route Billing # 0002489
 State Waste Code Gen EPA ID
 Manifest 12696782
 Destination Grid X20
 PO
 Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)
 Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

	Time	Scale	Operator	Inbound	Gross	75220 lb
In	05/22/2023 08:00:20	Scale1	tjacks10		Tare	28820 lb
Out	05/22/2023 08:00:20		tjacks10		Net	46400 lb
					Tons	23.20

Comments This vehicle was over the legal weight limit .

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC-	100	23.20	Tons				MON

Total Tax
 Total Ticket

Driver's Signature _____



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. <i>126492NY</i>	Manifest Doc No. <i>8A-554</i>	2. Page 1 of <i>1</i>						
3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE FORBES 30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614		Generator's Site Address (if different than mailing): 536 CENTRAL AVE. ROCHESTER, NY 14605		A. Manifest Number WMNA 12696782						
4. Generator's Phone 585-428-7892		B. State Generator's ID <i>12696782</i>								
5. Transporter 1 Company Name <i>MS Drivers</i>		6. US EPA ID Number <i>126492NY</i>		C. State Transporter's ID <i>12696782</i>						
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone <i>585-428-7892</i>						
9. Designated Facility Name and Site Address WM OF NEW YORK AT MILL SEAT LANDFILL 303 BREW RD. BERGEN, NY 14416		10. US EPA ID Number <i>126492NY</i>		E. State Transporter's ID <i>12696782</i>						
				F. Transporter's Phone <i>585-428-7892</i>						
				G. State Facility ID <i>126492NY</i>						
				H. State Facility Phone 585-494-3000						
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments			
	a. NON DOT REGULATED MATERIAL		No.	Type	Total Qty.	WT./Vol.				
	WM Profile # 126492NY									
	b. Waste Name		No.	Type	Total Qty.	WT./Vol.	Comments			
	WM Profile # <i>126492NY</i>									
	c. Waste Name		No.	Type	Total Qty.	WT./Vol.	Comments			
WM Profile # <i>126492NY</i>										
d. Waste Name		No.	Type	Total Qty.	WT./Vol.	Comments				
WM Profile # <i>126492NY</i>										
J. Additional Descriptions for Materials Listed Above		K. Disposal Location								
		Cell					Level			
		Grid								
15. Special Handling Instructions and Additional Information 126492NY - GASOLINE CONTAMINATED URBAN FILL/DEBRIS WEIGHT IS ESTIMATED <i>Special</i> <i>Handling Instructions</i>										
Purchase Order # <i>126492NY</i>			EMERGENCY CONTACT / PHONE NO.: <i>585-428-7892</i>							
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.										
Printed Name <i>Jane Forbes</i>		Signature <i>Jane Forbes</i>			Month 05	Day 22	Year 23			
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name <i>ORRY Rowley</i>			Signature <i>Orry Rowley</i>			Month 5	Day 22	Year 23
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name			Signature			Month	Day	Year
19. Certificate of Final Treatment/Disposal		I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.										
Printed Name <i>BERMAINE JACKSON</i>		Signature <i>Bermaine Jackson</i>			Month 5	Day 22	Year 23			

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Waste Management Mill Seat Landfill
 303 Brew Rd.
 Bergen, NY, 14416
 Ph: (585) 494-3000

Original
 Ticket# 1141267

Customer Name TRECEENVIRONMENTAL-126492NY TR Carrier MJD M J DREHER TRUCKING, INC.
 Ticket Date 05/22/2023 Vehicle# 27 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver 03/07/2024
 Hauling Ticket# Check#
 Route Billing # 0002489
 State Waste Code Gen EPA ID
 Manifest 12696783
 Destination Grid X20
 PO
 Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)
 Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

	Time	Scale	Operator	Inbound	Gross	72740 lb
In	05/22/2023 08:44:44	Scale1	tjacks10		Tare	29900 lb
Out	05/22/2023 08:44:44		tjacks10		Net	42840 lb
					Tons	21.42

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC-	100	21.42	Tons				MON

Total Tax
 Total Ticket

Driver's Signature _____



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. <i>126492NY</i>	Manifest Doc No. <i>MJD-27</i>	2. Page 1 of <i>1</i>		
3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE FORBES 30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614		Generator's Site Address (if different than mailing): 536 CENTRAL AVE. ROCHESTER, NY 14605		A. Manifest Number WMNA	12696783	
4. Generator's Phone 585-428-7892				B. State Generator's ID <i>12696783</i>		
5. Transporter 1 Company Name <i>MJ Dreher</i>		6. US EPA ID Number <i>126492NY</i>		C. State Transporter's ID <i>12696783</i>	D. Transporter's Phone <i>585-428-7892</i>	
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID	F. Transporter's Phone	
9. Designated Facility Name and Site Address WM OF NEW YORK AT MILL SEAT LANDFILL 303 BREW RD. BERGEN, NY 14416		10. US EPA ID Number <i>126492NY</i>		G. State Facility ID <i>126492NY</i>	H. State Facility Phone 585-494-3000	
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	
	a. NON DOT REGULATED MATERIAL		No.	Type	14. Unit Wt./Vol.	
	WM Profile # 126492NY				Total Qty.	
	b. Waste Name		No.	Type	Total Qty.	15. Misc. Comments
	WM Profile # <i>WM Profile Number</i>					
	c. Waste Name		No.	Type	Total Qty.	Comments
WM Profile # <i>WM Profile Number</i>						
d. Waste Name		No.	Type	Total Qty.	Comments	
WM Profile # <i>WM Profile Number</i>						
J. Additional Descriptions for Materials Listed Above			K. Disposal Location			
			Cell	Level		
			Grid			
15. Special Handling Instructions and Additional Information 126492NY - GASOLINE CONTAMINATED URBAN FILL/DEBRIS WEIGHT IS ESTIMATED <i>Special</i> <i>Special Handling Instructions</i>						
Purchase Order # <i>Purchase Order Number</i>		EMERGENCY CONTACT / PHONE NO.: <i>Emergency Contact</i>				
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.						
Printed Name <i>Jane Forbes</i>		Signature <i>Jane Forbes</i>		Month 5	Day 22	
				Year 23		
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials					
	Printed Name <i>DAVID MARELLI</i>		Signature <i>David Marelli</i>		Month 5	
					Day 22	
				Year 23		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed Name		Signature		Month	Day	
				Year		
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.						
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.						
Printed Name <i>Terrence Jackson</i>		Signature <i>Terrence Jackson</i>		Month 5	Day 22	
				Year 23		

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Waste Management Mill Seat Landfill
 303
 Bergamot

Original
 Ticket# 1141277

Ph: (585) 494-3000

Customer Name TRECENVIRONMENTAL-126492 Carrier WAT WATER AUTHORITY
 Ticket Date 05/22/2023 Vehicle# 224593
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0002489
 Destination Grid X20
 Manifest 12696784
 Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)
 Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER
 PO#

	Time	Scale	Operator	Inbound	Gross	
In	05/22/2023 09:12:55	SCALE1	kking5		46180 lb	
Out	05/22/2023 09:28:33	SCALE2	kking5		24820 lb	
					Net	21360 lb
					Tons	10.68

Comments

Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1 Cont Soil Pet-RGC-Tons-	100	10.68	Tons				MON

Total Tax/Fees
 Total Ticket

Driver`s Signature



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. <i>126492NY</i>	Manifest Doc No. <i>126492NY</i>	2. Page 1 of <i>93</i>			
3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE FORBES 30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614		Generator's Site Address (if different than mailing): 536 CENTRAL AVE. ROCHESTER, NY 14605		A. Manifest Number WMNA 12696784			
4. Generator's Phone 585-428-7892		B. State Generator's ID <i>126492NY</i>					
5. Transporter 1 Company Name <i>City of Rochester Water Bureau</i>		6. US EPA ID Number <i>126492NY</i>		C. State Transporter's ID <i>126492NY</i>			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone <i>126492NY</i>			
9. Designated Facility Name and Site Address WM OF NEW YORK AT MILL SEAT LANDFILL 303 BREW RD. BERGEN, NY 14416		10. US EPA ID Number <i>126492NY</i>		E. State Transporter's ID <i>126492NY</i>			
				F. Transporter's Phone <i>126492NY</i>			
				G. State Facility ID <i>126492NY</i>			
				H. State Facility Phone 585-494-3000			
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
	a. NON DOT REGULATED MATERIAL		No.	Type	Total Qty.	Wt./Vol.	
	WM Profile # 126492NY						
	b. Waste Name		No.	Type	Total Qty.	Wt./Vol.	Comments
	WM Profile # <i>WM Profile Number</i>						
	c. Waste Name		No.	Type	Total Qty.	Wt./Vol.	Comments
WM Profile # <i>WM Profile Number</i>							
d. Waste Name		No.	Type	Total Qty.	Wt./Vol.	Comments	
WM Profile # <i>WM Profile Number</i>							
J. Additional Descriptions for Materials Listed Above		K. Disposal Location					
		Cell		Level			
		Grid					
15. Special Handling Instructions and Additional Information 126492NY – GASOLINE CONTAMINATED URBAN FILL/DEBRIS WEIGHT IS ESTIMATED <i>Handling Instruction</i>							
Purchase Order # <i>Purchase Order Number</i>		EMERGENCY CONTACT / PHONE NO.: <i>Emergency Contact</i>					
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name <i>Jane Forbes</i>		Signature <i>Jane Forbes</i>			Month 5	Day 22	Year 23
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name <i>Eric Torres</i>			Signature <i>Eric Torres</i>		
					Month	Day	Year
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name			Signature		
					Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name <i>Jim King</i>		Signature <i>Jim King</i>			Month 5	Day 22	Year 23

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Waste Management Mill Seat Landfill
 303 Brew Rd.
 Bergen, NY, 14416
 Ph: (585) 494-3000

Original
 Ticket# 1141339

Customer Name TRECENVIRONMENTAL-126492NY TR Carrier MJD M J DREHER TRUCKING, INC.
 Ticket Date 05/22/2023 Vehicle# 27 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver 03/07/2024
 Hauling Ticket# Check#
 Route Billing # 0002489
 State Waste Code Gen EPA ID
 Manifest 12696789
 Destination Grid X20
 PO
 Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)
 Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

	Time	Scale	Operator	Inbound	Gross	
In	05/22/2023 11:22:42	Scale1	tjacks10		70200 lb	
Out	05/22/2023 11:22:42		tjacks10		29900 lb	
					Net	40300 lb
					Tons	20.15

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC-	100	20.15	Tons				MON

Total Tax
 Total Ticket

Driver's Signature _____



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of Page: MJD 27
3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE FORBES 30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614	Generator's Site Address (if different than mailing): 536 CENTRAL AVE. ROCHESTER, NY 14605		A. Manifest Number WMNA 12696789
4. Generator's Phone 585-428-7892	B. State Generator's ID State Generator's ID		
5. Transporter 1 Company Name MJD Debris	6. US EPA ID Number US EPA ID Number	C. State Transporter's ID State Transporter's ID	
7. Transporter 2 Company Name Transporter 2 Company Name	8. US EPA ID Number US EPA ID Number	D. Transporter's Phone Transporter 1 Phone	
9. Designated Facility Name and Site Address WM OF NEW YORK AT MILL SEAT LANDFILL 303 BREW RD. BERGEN, NY 14416	10. US EPA ID Number US EPA ID Number	E. State Transporter's ID State Transporter's ID	
		F. Transporter's Phone Transporter 2 Phone	
11. Description of Waste Materials		12. Containers	
		13. Total Quantity	14. Unit WT./Vol.
a. NON DOT REGULATED MATERIAL		No.	Type
WM Profile # 126492NY		Total Qty.	WT./Vol.
b. Waste Name		No.	Type
WM Profile #		Total Qty.	WT./Vol.
c. Waste Name		No.	Type
WM Profile #		Total Qty.	WT./Vol.
d. Waste Name		No.	Type
WM Profile #		Total Qty.	WT./Vol.
J. Additional Descriptions for Materials Listed Above		K. Disposal Location	
15. Special Handling Instructions and Additional Information 126492NY - GASOLINE CONTAMINATED URBAN FILL/DEBRIS		Cell	Level
Handling Instructions		Grid	
Purchase Order #		EMERGENCY CONTACT / PHONE NO.:	
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.		WEIGHT IS ESTIMATED Special	
Printed Name Jane Forbes	Signature <i>Jane Forbes</i>	Month 5	Day 22
Printed Name DAVE MARENUS	Signature <i>Dave Marenus</i>	Month 5	Day 22
Printed Name	Signature	Month	Day
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.		Year 23	
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.		Month 5	Day 22
Printed Name TERMAINE JACKSON	Signature <i>Termaine Jackson</i>	Year 23	

GENERATOR

TRANSPORTER

FACILITY



Was... Mill Seat Landfill
 303
 Berg...

Original
 Ticket# 1141348

Ph: (585) 494-3000

Customer Name TRECENVIRONMENTAL-126492 Carrier WAT WATER AUTHORITY
 Ticket Date 05/22/2023 Vehicle# 224593
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Route Check#
 Hauling Ticket# Billing# 0002489
 Destination Grid X20
 Manifest 12696790
 Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)
 Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER
 PO#

Time	Scale	Operator	Inbound	Gross	
In 05/22/2023 11:45:32	Scale1	tjacks10		46280 lb	
Out 05/22/2023 11:56:28	SCALE2	kking5		24740 lb	
				Net	21540 lb
				Tons	10.77

Comments

Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1 Cont Soil Pet-RGC-Tons-	100	10.77	Tons				MON

Total Tax/Fees
 Total Ticket

Driver's Signature



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. <i>Generator's ID #</i>	Manifest Doc No. <i>Number</i>	2. Page 1 of <i>Page</i> 93
3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE FORBES 30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614		Generator's Site Address (if different than mailing): 536 CENTRAL AVE. ROCHESTER, NY 14605	
4. Generator's Phone 585-428-7892		A. Manifest Number WMNA 12696790	
5. Transporter 1 Company Name <i>CoR Water Bureau</i>		B. State Generator's ID <i>State Generator's ID</i>	
6. US EPA ID Number <i>US EPA ID Number</i>		C. State Transporter's ID <i>State Transporter ID</i>	
7. Transporter 2 Company Name <i>Transporter 2 Company Name</i>		D. Transporter's Phone <i>Transporter 1 Phone</i>	
8. US EPA ID Number <i>US EPA ID Number</i>		E. State Transporter's ID <i>State Transporter ID</i>	
9. Designated Facility Name and Site Address WM OF NEW YORK AT MILL SEAT LANDFILL 303 BREW RD. BERGEN, NY 14416		F. Transporter's Phone <i>Transporter 2 Phone</i>	
10. US EPA ID Number <i>US EPA ID Number</i>		G. State Facility ID <i>State Facility ID</i>	
11. Description of Waste Materials		H. State Facility Phone 585-494-3000 <i>Facility Phone</i>	
GENERATOR	a. NON DOT REGULATED MATERIAL WM Profile # 126492NY		12. Containers No. Type
	b. Waste Name WM Profile # <i>WM Profile Number</i>		13. Total Quantity Total Qty.
	c. Waste Name WM Profile # <i>WM Profile number</i>		14. Unit Wt./Vol. Wt./Vol.
	d. Waste Name WM Profile # <i>WM Profile Number</i>		I. Misc. Comments Comments
	e. Waste Name WM Profile # <i>WM Profile Number</i>		
	f. Waste Name WM Profile # <i>WM Profile Number</i>		
J. Additional Descriptions for Materials Listed Above		K. Disposal Location Cell Level	
15. Special Handling Instructions and Additional Information 126492NY – GASOLINE CONTAMINATED URBAN FILL/DEBRIS <i>Handling Instructions</i>		WEIGHT IS ESTIMATED <i>Special</i>	
Purchase Order # <i>Purchase Order Number</i>		EMERGENCY CONTACT / PHONE NO.: <i>Emergency Contact</i>	
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.			
Printed Name <i>Jane Forbes</i>		Signature <i>Jane Forbes</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials		Month	Day
Printed Name <i>Eric Torres</i>		Year 5 22 23	
18. Transporter 2 Acknowledgement of Receipt of Materials		Month	Day
Printed Name		Year	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
Printed Name <i>Bermaine Jackson</i>		Signature <i>Bermaine Jackson</i>	
Month		Day	Year
5		22	23

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Was...ment Mill Seat Landfill
 303
 Berg...

Original
 Ticket# 1141371

Ph: (585) 494-3000

Customer Name TRECENVIRONMENTAL-126492 Carrier MJD M J DREHER TRUCKING, INC.
 Ticket Date 05/22/2023 Vehicle# 27
 Payment Type Credit Account Container
 Manual Ticket# Driver 03/07/2024
 Route Check#
 Hauling Ticket# Billing# 0002489
 Destination Grid X20
 Manifest 12696764
 Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)
 Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER
 PO#

Time	Scale	Operator	Inbound	Gross	73300 lb
In 05/22/2023 12:37:02	SCALE1	kking5		Tare	29900 lb
Out 05/22/2023 12:37:02		kking5		Net	43400 lb
				Tons	21.70

Comments

Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1 Cont Soil Pet-RGC-Tons-	100	21.70	Tons				MON

Total Tax/Fees
 Total Ticket

Driver`s Signature



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. <small>Generator's ID</small>	Manifest Doc No. <small>Number</small>	2. Page 1 of <small>Pages</small>
3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE FORBES 30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614		Generator's Site Address (if different than mailing): 536 CENTRAL AVE. ROCHESTER, NY 14605	
4. Generator's Phone 585-428-7892 <small>Generator's Phone</small>		A. Manifest Number WMNA 12696764	
5. Transporter 1 Company Name <small>Transporter 1 Company Name</small>		B. State Generator's ID <small>State Generator's ID</small>	
6. US EPA ID Number <small>US EPA ID Number</small>		C. State Transporter's ID <small>State Transporter ID</small>	
7. Transporter 2 Company Name <small>Transporter 2 Company Name</small>		D. Transporter's Phone <small>Transporter 1 Phone</small>	
8. US EPA ID Number <small>US EPA ID Number</small>		E. State Transporter's ID <small>State Transporter ID</small>	
9. Designated Facility Name and Site Address WM OF NEW YORK AT MILL SEAT LANDFILL 303 BREW RD. BERGEN, NY 14416		F. Transporter's Phone <small>Transporter 2 Phone</small>	
10. US EPA ID Number <small>US EPA ID Number</small>		G. State Facility ID <small>State Facility ID</small>	
11. Description of Waste Materials		H. State Facility Phone 585-494-3000 <small>Facility Phone</small>	
GENERATOR	a. NON DOT REGULATED MATERIAL WM Profile # 126492NY		12. Containers
			No. Type Total Qty. Wt./Vol.
TRANSPORTER	b. Waste Name WM Profile # WM Profile Number		13. Total Quantity
			No. Type Total Qty. Wt./Vol. Comments
FACILITY	c. Waste Name WM Profile # WM Profile Number		14. Unit Wt./Vol.
d. Waste Name WM Profile # WM Profile Number		I. Misc. Comments	
J. Additional Descriptions for Materials Listed Above		K. Disposal Location	
		Cell Level Grid	
15. Special Handling Instructions and Additional Information 126492NY – GASOLINE CONTAMINATED URBAN FILL/DEBRIS WEIGHT IS ESTIMATED <small>Handling Instructions</small> <small>Special</small>			
Purchase Order # Purchase Order Number		EMERGENCY CONTACT / PHONE NO.: Emergency Contact	
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.			
Printed Name Jane Forbes		Signature	
		Month Day Year 5 22 23	
17. Transporter 1 Acknowledgement of Receipt of Materials			
Printed Name DAVE MARENNA		Signature	
		Month Day Year 5 22 23	
18. Transporter 2 Acknowledgement of Receipt of Materials			
Printed Name		Signature	
		Month Day Year	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
Printed Name Kim King		Signature	
		Month Day Year 5 22 23	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Waste Management Mill Seat Landfill
 303 Brew Rd.
 Bergen, NY, 14416
 Ph: (585) 494-3000

Original
 Ticket# 1141392

Customer Name TRECENVIRONMENTAL-126492NY TR Carrier MJD M J DREHER TRUCKING, INC.
 Ticket Date 05/22/2023 Vehicle# 21 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver 12/21/2023
 Hauling Ticket# Check#
 Route Billing # 0002489
 State Waste Code Gen EPA ID
 Manifest 12696766
 Destination Grid X20
 PO
 Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)
 Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

	Time	Scale	Operator	Inbound	Gross	74140 lb
In	05/22/2023 13:21:25	Scale1	tjacks10		Tare	28820 lb
Out	05/22/2023 13:21:25		tjacks10		Net	45320 lb
					Tons	22.66

Comments This vehicle was over the legal weight limit .

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC-	100	22.66	Tons				MON

Total Tax
 Total Ticket

Driver's Signature _____



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	MJD 21			
3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE FORBES 30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614		Generator's Site Address (if different than mailing): 536 CENTRAL AVE. ROCHESTER, NY 14605		A. Manifest Number WMNA	12696766			
4. Generator's Phone 585-428-7892				B. State Generator's ID				
5. Transporter 1 Company Name Trans MJD Company Name		6. US EPA ID Number		C. State Transporter's ID				
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone				
9. Designated Facility Name and Site Address WM OF NEW YORK AT MILL SEAT LANDFILL 303 BREW RD. BERGEN, NY 14416		10. US EPA ID Number		E. State Transporter's ID				
				F. Transporter's Phone				
				G. State Facility ID				
				H. State Facility Phone 585-494-3000				
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments	
	a. NON DOT REGULATED MATERIAL		No.	Type	Total Qty	Wt./Vol.		
	WM Profile # 126492NY							
	b. Waste Name		No.	Type	Total Qty	Wt./Vol.	Comments	
	WM Profile #							
	c. Waste Name		No.	Type	Total Qty	Wt./Vol.	Comments	
WM Profile #								
d. Waste Name		No.	Type	Total Qty	Wt./Vol.	Comments		
WM Profile #								
J. Additional Descriptions for Materials Listed Above		K. Disposal Location						
		Cell				Level		
		Grid						
15. Special Handling Instructions and Additional Information 126492NY - GASOLINE CONTAMINATED URBAN FILL/DEBRIS WEIGHT IS ESTIMATED Handling Instructions								
Purchase Order #		Purchase Order Number		EMERGENCY CONTACT / PHONE NO.:		Emergency Contact		
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
Printed Name Jane Forbes		Signature		Month 5	Day 22	Year 23		
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name May Rowkey		Signature		Month 5	Day 22	Year 23
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name		Signature		Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.								
Printed Name Terrence Jackson		Signature		Month 5	Day 22	Year 23		

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Waste Management Mill Seat Landfill
 303 Brew Rd.
 Bergen, NY, 14416
 Ph: (585) 494-3000

Original
 Ticket# 1141706

Customer Name TRECENVIRONMENTAL-126492NY TR Carrier MJD M J DREHER TRUCKING, INC.
 Ticket Date 05/24/2023 Vehicle# 21 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver 12/21/2023
 Hauling Ticket# Check#
 Route Billing # 0002489
 State Waste Code Gen EPA ID
 Manifest 12696770
 Destination Grid Y20
 PO
 Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)
 Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

	Time	Scale	Operator	Inbound	Gross	86180 lb
In	05/24/2023 10:18:51	Scale1	tjacks10		Tare	28820 lb
Out	05/24/2023 10:18:51		tjacks10		Net	57360 lb
					Tons	28.68

Comments This vehicle was over the legal weight limit .

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC-	100	28.68	Tons				MON

Total Tax
 Total Ticket

Driver`s Signature _____



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. <small>Generator's ID Number</small>	Manifest Doc No. <small>Manifest Doc No.</small>	2. Page 1 of <small>Page</small> MJD 21
3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE FORBES 30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614		Generator's Site Address (if different than mailing): 536 CENTRAL AVE. ROCHESTER, NY 14605	
4. Generator's Phone 585-428-7892		A. Manifest Number WMNA 12696770	
5. Transporter 1 Company Name MJD		B. State Generator's ID <small>State Generator's ID</small>	
6. US EPA ID Number <small>US EPA ID Number</small>		C. State Transporter's ID <small>State Transporter's ID</small>	
7. Transporter 2 Company Name <small>Transporter 2 Company Name</small>		D. Transporter's Phone <small>Transporter 1 Phone</small>	
8. US EPA ID Number <small>US EPA ID Number</small>		E. State Transporter's ID <small>State Transporter's ID</small>	
9. Designated Facility Name and Site Address WM OF NEW YORK AT MILL SEAT LANDFILL 303 BREW RD. BERGEN, NY 14416		F. Transporter's Phone <small>Transporter 2 Phone</small>	
10. US EPA ID Number <small>US EPA ID Number</small>		G. State Facility ID <small>State Facility ID</small>	
11. Description of Waste Materials		H. State Facility Phone 585-494-3000	
GENERATOR	12. Containers		13. Total Quantity
	No.	Type	14. Unit Wt./Vol.
a. NON DOT REGULATED MATERIAL		Total Qty.	Wt./Vol.
WM Profile # 126492NY			
b. Waste Name		Total Qty.	Wt./Vol.
WM Profile # <small>WM Profile Number</small>			Comments
c. Waste Name		Total Qty.	Wt./Vol.
WM Profile # <small>WM Profile Number</small>			Comments
d. Waste Name		Total Qty.	Wt./Vol.
WM Profile # <small>WM Profile Number</small>			Comments
J. Additional Descriptions for Materials Listed Above		K. Disposal Location	
		Cell	Level
		Grid	
15. Special Handling Instructions and Additional Information 126492NY - GASOLINE CONTAMINATED URBAN FILL/DEBRIS WEIGHT IS ESTIMATED Special <small>Handling Instructions</small>			
Purchase Order # <small>Purchase Order Number</small>		EMERGENCY CONTACT / PHONE NO.: <small>Emergency Contact</small>	
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.			
Printed Name Jane Forbes		Signature	Month 5 Day 24 Year 23
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature	Month 5 Day 24 Year 23
Printed Name GARY ROWLEY		Signature	Month Day Year
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature	Month Day Year
Printed Name		Signature	Month Day Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
Printed Name Termaine JACKSON		Signature	Month 5 Day 24 Year 23

TRANSPORTER

FACILITY

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Was ~~Waste Management~~ Mill Seat Landfill
 303
 Berg ~~Waste Management~~

Ph: (585) 494-3000

Original
 Ticket# 1141664

Customer Name TRECENVIRONMENTAL-126492 Carrier MJD M J DREHER TRUCKING, INC.
 Ticket Date 05/24/2023 Vehicle# 21
 Payment Type Credit Account Container
 Manual Ticket# Driver 12/21/2023
 Route Check#
 Hauling Ticket# Billing# 0002489
 Destination Grid Y20
 Manifest 12696769
 Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)
 Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER
 PO#

Time	Scale	Operator	Inbound	Gross	71820 lb
In 05/24/2023 08:20:22	SCALE1	kking5		Tare	28820 lb
Out 05/24/2023 08:20:22		kking5		Net	43000 lb
				Tons	21.50

Comments

Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1 Cont Soil Pet-RGC-Tons-	100	21.50	Tons				MON

Total Tax/Fees
 Total Ticket

Driver`s Signature



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. <i>126492NY</i>	Manifest Doc No. <i>0000000000</i>	2. Page 1 of <i>1</i>	<i>MJD 21</i>		
3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE FORBES 30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614		Generator's Site Address (if different than mailing): 536 CENTRAL AVE. ROCHESTER, NY 14605		A. Manifest Number WMNA	12696769		
4. Generator's Phone 585-428-7892				B. State Generator's ID <i>126492NY</i>			
5. Transporter 1 Company Name <i>MJD</i>		6. US EPA ID Number <i>126492NY</i>		C. State Transporter's ID <i>126492NY</i>			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address WM OF NEW YORK AT MILL SEAT LANDFILL 303 BREW RD. BERGEN, NY 14416		10. US EPA ID Number <i>126492NY</i>		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility ID			
				H. State Facility Phone 585-494-3000			
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	
	a. NON DOT REGULATED MATERIAL		No.	Type	Total Qty	Wt./Vol.	
	WM Profile # 126492NY						
	b. Waste Name		No.	Type	Total Qty	Wt./Vol.	
	WM Profile #						
	c. Waste Name		No.	Type	Total Qty	Wt./Vol.	
WM Profile #							
d. Waste Name		No.	Type	Total Qty	Wt./Vol.	Comments	
WM Profile #							
J. Additional Descriptions for Materials Listed Above		K. Disposal Location					
		Cell		Level			
		Grid					
15. Special Handling Instructions and Additional Information 126492NY - GASOLINE CONTAMINATED URBAN FILL/DEBRIS <i>Handling instructions</i>		WEIGHT IS ESTIMATED <i>Spot</i>					
Purchase Order #		EMERGENCY CONTACT / PHONE NO.:		Emergency Contact			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name <i>Jane Forbes</i>		Signature <i>Jane Forbes</i>			Month <i>5</i>	Day <i>24</i>	Year <i>23</i>
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name <i>GARY ROWLEY</i>			Signature <i>Gary Rowley</i>		
					Month <i>5</i>	Day <i>24</i>	Year <i>23</i>
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name			Signature		
					Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name <i>Kim King</i>		Signature <i>Kim King</i>			Month <i>5</i>	Day <i>24</i>	Year <i>23</i>

White- TREATMENT, STORAGE/ DISPOSAL FACILITY COPY
 Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
 Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Waste Management Mill Seat Landfill
 303 Brew Rd.
 Bergen, NY, 14416
 Ph: (585) 494-3000

Original
 Ticket# 1141302

Customer Name TRECENVIRONMENTAL-126492NY TR Carrier MJD M J DREHER TRUCKING, INC.
 Ticket Date 05/22/2023 Vehicle# 27 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver 03/07/2024
 Hauling Ticket# Check#
 Route Billing # 0002489
 State Waste Code Gen EPA ID
 Manifest 12696787
 Destination Grid X20
 PO
 Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)
 Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

	Time	Scale	Operator	Inbound	Gross	80100 lb
In	05/22/2023 10:05:03	Scale1	tjacks10		Tare	29900 lb
Out	05/22/2023 10:05:03		tjacks10		Net	50200 lb
					Tons	25.10

Comments This vehicle was over the legal weight limit .

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC-	100	25.10	Tons				MON

Total Tax
 Total Ticket

Driver's Signature _____



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. <i>Generator's ID</i>	Manifest Doc No. <i>Manifest</i>	2. Page 1 of <i>Page</i> MJD-27	
3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE FORBES 30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614		Generator's Site Address (if different than mailing): 536 CENTRAL AVE. ROCHESTER, NY 14605		
4. Generator's Phone 585-428-7892		A. Manifest Number WMNA 12696787		
5. Transporter 1 Company Name <i>To MJD Dreher</i>		B. State Generator's ID <i>State Generator's ID</i>		
6. US EPA ID Number <i>US EPA ID Number</i>		C. State Transporter's ID <i>State Transporter's ID</i>		
7. Transporter 2 Company Name <i>Transporter 2 Company Name</i>		D. Transporter's Phone <i>Transporter 1 Phone</i>		
8. US EPA ID Number <i>US EPA ID Number</i>		E. State Transporter's ID <i>State Transporter's ID</i>		
9. Designated Facility Name and Site Address WM OF NEW YORK AT MILL SEAT LANDFILL 303 BREW RD. BERGEN, NY 14416		F. Transporter's Phone <i>Transporter 2 Phone</i>		
10. US EPA ID Number <i>US EPA ID Number</i>		G. State Facility ID <i>State Facility ID</i>		
11. Description of Waste Materials		H. State Facility Phone 585-494-3000		
GENERATOR	a. NON DOT REGULATED MATERIAL WM Profile # 126492NY		12. Containers No. Type Total Qty. Wt./Vol.	
	b. Waste Name WM Profile # <i>WM Profile Number</i>		No. Type Total Qty. Wt./Vol. Comments	
	c. Waste Name WM Profile # <i>WM Profile Number</i>		No. Type Total Qty. Wt./Vol. Comments	
	d. Waste Name WM Profile # <i>WM Profile Number</i>		No. Type Total Qty. Wt./Vol. Comments	
	J. Additional Descriptions for Materials Listed Above		K. Disposal Location Cell _____ Level _____ Grid _____	
	15. Special Handling Instructions and Additional Information 126492NY – GASOLINE CONTAMINATED URBAN FILL/DEBRIS <i>Handling Instructions</i>		WEIGHT IS ESTIMATED <i>Special</i>	
Purchase Order # <i>Purchase Order Number</i>		EMERGENCY CONTACT / PHONE NO.: <i>Emergency Contact</i>		
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.				
Printed Name Jane Forbes		Signature <i>Jane Forbes</i>		
17. Transporter 1 Acknowledgement of Receipt of Materials		Month 5	Day 22 Year 23	
Printed Name DAVE MAREWS		Signature <i>Dave Marews</i>		
18. Transporter 2 Acknowledgement of Receipt of Materials		Month 5	Day 22 Year 23	
Printed Name _____		Signature _____		
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
Printed Name Jermaine Jackson		Signature <i>Jermaine Jackson</i>		
Month 5		Day 22 Year 23		

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Waste Management Mill Seat Landfill
 303 Brew Rd.
 Bergen, NY, 14416
 Ph: (585) 494-3000

Original
 Ticket# 1141420

Customer Name TRECENVIRONMENTAL-126492NY TR Carrier MJD M J DREHER TRUCKING, INC.
 Ticket Date 05/22/2023 Vehicle# 21 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver 12/21/2023
 Hauling Ticket# Check#
 Route Billing # 0002489
 State Waste Code Gen EPA ID
 Manifest 12696768
 Destination Grid X20
 PO
 Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)
 Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

	Time	Scale	Operator	Inbound	Gross	
In	05/22/2023 14:38:41	Scale1	tjacks10		73180 lb	
Out	05/22/2023 14:38:41		tjacks10		28820 lb	
					Net	44360 lb
					Tons	22.18

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC-	100	22.18	Tons				MON

Total Tax
 Total Ticket

Driver's Signature _____



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. <i>126492NY</i>	Manifest Doc No. <i>126492NY</i>	2. Page 1 of <i>21</i>				
	3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE FORBES 30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614		Generator's Site Address (If different than mailing): 536 CENTRAL AVE. ROCHESTER, NY 14605				
4. Generator's Phone 585-428-7892		A. Manifest Number WMNA 12696768					
5. Transporter 1 Company Name <i>MJD</i>		B. State Generator's ID <i>12696768</i>					
6. US EPA ID Number <i>126492NY</i>		C. State Transporter's ID <i>12696768</i>					
7. Transporter 2 Company Name		D. Transporter's Phone <i>585-428-7892</i>					
8. US EPA ID Number		E. State Transporter's ID					
9. Designated Facility Name and Site Address WM OF NEW YORK AT MILL SEAT LANDFILL 303 BREW RD. BERGEN, NY 14416		F. Transporter's Phone					
10. US EPA ID Number		G. State Facility ID					
		H. State Facility Phone 585-494-3000					
GENERATOR	11. Description of Waste Materials		12. Containers	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments	
	a. NON DOT REGULATED MATERIAL		No.	Type	Total Qty.	Wt./Vol.	
	WM Profile # 126492NY						
	b. Waste Name		No.	Type	Total Qty.	Wt./Vol.	Containers
	WM Profile # <i>126492NY</i>						
	c. Waste Name		No.	Type	Total Qty.	Wt./Vol.	Comments
WM Profile # <i>126492NY</i>							
d. Waste Name		No.	Type	Total Qty.	Wt./Vol.	Comments	
WM Profile # <i>126492NY</i>							
J. Additional Descriptions for Materials Listed Above		K. Disposal Location					
		Cell				Level	
		Grid					
15. Special Handling Instructions and Additional Information 126492NY – GASOLINE CONTAMINATED URBAN FILL/DEBRIS WEIGHT IS ESTIMATED Handling Instructions							
Purchase Order # EMERGENCY CONTACT / PHONE NO.:							
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name <i>Jane Forbes</i>		Signature <i>Jane Forbes</i>			Month <i>5</i>	Day <i>22</i>	Year <i>23</i>
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name <i>x GARY ROWLEY</i>			Signature <i>x Gary Rowley</i>		
					Month <i>5</i>	Day <i>22</i>	Year <i>23</i>
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name			Signature		
					Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.						
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.						
Printed Name <i>Terma Jackson</i>		Signature <i>Terma Jackson</i>			Month <i>5</i>	Day <i>22</i>	Year <i>23</i>



Waste Management Mill Seat Landfill
 303 Brew Rd.
 Bergen, NY, 14416
 Ph: (585) 494-3000

Original
 Ticket# 1141403

Customer Name TRECENVIRONMENTAL-126492NY TR Carrier MJD M J DREHER TRUCKING, INC.
 Ticket Date 05/22/2023 Vehicle# 27 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver 03/07/2024
 Hauling Ticket# Check#
 Route Billing # 0002489
 State Waste Code Gen EPA ID
 Manifest 12696767
 Destination Grid X20
 PO
 Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)
 Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

	Time	Scale	Operator	Inbound	Gross	74240 lb
In	05/22/2023 13:52:39	Scale1	tjacks10		Tare	29900 lb
Out	05/22/2023 13:52:39		tjacks10		Net	44340 lb
					Tons	22.17

Comments This vehicle was over the legal weight limit .

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC-	100	22.17	Tons				MON

Total Tax
 Total Ticket

Driver's Signature _____



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. <i>126492NY</i>		Manifest Doc No. <i>MJD 27</i>		2. Page 1 of <i>100</i>		MJD 27					
3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE FORBES 30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614				Generator's Site Address (if different than mailing): 536 CENTRAL AVE. ROCHESTER, NY 14605				A. Manifest Number WMNA		12696767			
4. Generator's Phone 585-428-7892				B. State Generator's ID				State Generator's ID					
5. Transporter 1 Company Name <i>MJD</i>				6. US EPA ID Number				C. State Transporter's ID		State Transporter's ID			
7. Transporter 2 Company Name				8. US EPA ID Number				D. Transporter's Phone		Transporter's Phone			
9. Designated Facility Name and Site Address WM OF NEW YORK AT MILL SEAT LANDFILL 303 BREW RD. BERGEN, NY 14416				10. US EPA ID Number				E. State Transporter's ID		State Transporter's ID			
								F. Transporter's Phone		Transporter's Phone			
								G. State Facility ID		State Facility ID			
								H. State Facility Phone		585-494-3000			
								I. Misc. Comments					
GENERATOR	11. Description of Waste Materials				12. Containers		13. Total Quantity	14. Unit Wt./Vol.					
	a. NON DOT REGULATED MATERIAL				No.	Type	Total Qty.	Wt./Vol.					
	WM Profile # 126492NY												
	b. Waste Name				No.	Type	Total Qty.	Wt./Vol.	Comments				
	WM Profile #												
	c. Waste Name				No.	Type	Total Qty.	Wt./Vol.	Comments				
WM Profile #													
d. Waste Name				No.	Type	Total Qty.	Wt./Vol.	Comments					
WM Profile #													
J. Additional Descriptions for Materials Listed Above				K. Disposal Location									
				Cell				Level					
				Grid									
15. Special Handling Instructions and Additional Information 126492NY - GASOLINE CONTAMINATED URBAN FILL/DEBRIS Handling Instructions: WEIGHT IS ESTIMATED													
Purchase Order #				EMERGENCY CONTACT / PHONE NO.:				Emergency Contact					
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.													
Printed Name <i>Jane Forbes</i>				Signature <i>[Signature]</i>				Month	Day	Year			
								5	22	23			
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials												
	Printed Name <i>DAVE MAREW</i>				Signature <i>[Signature]</i>				Month	Day	Year		
									5	22	23		
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed Name				Signature				Month	Day	Year			
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.												
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.												
Printed Name <i>Terrence Jackson</i>				Signature <i>[Signature]</i>				Month	Day	Year			
								5	22	23			

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY

Was **WMA** Mill Seat Landfill
 303
 Berg **WASTE MANAGEMENT**

Original
 Ticket# 1141363

Ph: (585) 494-3000

Customer Name TRECENVIRONMENTAL-126492 Carrier MJD M J DREHER TRUCKING, INC.
 Ticket Date 05/22/2023 Vehicle# 21
 Payment Type Credit Account Container
 Manual Ticket# Driver 12/21/2023
 Route Check#
 Hauling Ticket# Billing# 0002489
 Destination Grid X20
 Manifest 12696763
 Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)
 Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER
 PO#

Time	Scale	Operator	Inbound	Gross	76840 lb
In 05/22/2023 12:06:37	SCALE1	kking5		Tare	28820 lb
Out 05/22/2023 12:06:37		kking5		Net	48020 lb
				Tons	24.01

Comments This vehicle was over the legal weight limit .

Product	LD%	Qty	UOM	Rate	Tax/Fee	Amount	Origin
1 Cont Soil Pet-RGC-Tons-	100	24.01	Tons				MON

Total Tax/Fees
 Total Ticket

Driver`s Signature



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. _____ Manifest Doc No. _____		2. Page 1 of _____ Page _____ MJD 21			
3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE FORBES 30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614		Generator's Site Address (if different than mailing): 536 CENTRAL AVE. ROCHESTER, NY 14605		A. Manifest Number WMNA 12696763			
4. Generator's Phone 885-428-7892				B. State Generator's ID State Generator's ID _____			
5. Transporter 1 Company Name <i>MJ Dishes</i>		6. US EPA ID Number US EPA ID Number _____		C. State Transporter's ID State Transporter ID _____			
7. Transporter 2 Company Name Transporter 2 Company Name _____		8. US EPA ID Number US EPA ID Number _____		D. Transporter's Phone Transporter 1 Phone _____			
9. Designated Facility Name and Site Address WM OF NEW YORK AT MILL SEAT LANDFILL 303 BREW RD. BERGEN, NY 14416		10. US EPA ID Number US EPA ID Number _____		E. State Transporter's ID State Transporter ID _____			
				F. Transporter's Phone Transporter 2 Phone _____			
				G. State Facility ID State Facility ID _____			
				H. State Facility Phone 585-494-3000 Facility Phone _____			
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity		
	a. NON DOT REGULATED MATERIAL		No.	Type	Total Qty.	14. Unit Wt./Vol.	I. Misc. Comments
	WM Profile # 126492NY						
	b. Waste Name		No.	Type	Total Qty.	Wt./Vol.	Comments
	WM Profile # _____						
	c. Waste Name		No.	Type	Total Qty.	Wt./Vol.	Comments
WM Profile # _____							
d. Waste Name		No.	Type	Total Qty.	Wt./Vol.	Comments	
WM Profile # _____							
J. Additional Descriptions for Materials Listed Above			K. Disposal Location				
			Cell		Level		
			Grid				
15. Special Handling Instructions and Additional Information 126492NY – GASOLINE CONTAMINATED URBAN FILL/DEBRIS Handling Instructions _____ WEIGHT IS ESTIMATED Special _____							
Purchase Order # _____		Purchase Order Number _____		EMERGENCY CONTACT / PHONE NO.: _____			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name <i>Jane Forbes</i>		Signature <i>Jane Forbes</i>			Month 5	Day 22 Year 23	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name <i>MARY ROWLEY</i>			Signature <i>Mary Rowley</i>		
					Month 5	Day 22 Year 23	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name _____			Signature _____		
					Month _____	Day _____ Year _____	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name <i>Kim King</i>		Signature <i>Kim King</i>			Month 5	Day 22 Year 23	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



Waste Management Mill Seat Landfill
 303 Brew Rd.
 Bergen, NY, 14416
 Ph: (585) 494-3000

Original
 Ticket# 1141383

Customer Name TRECENVIRONMENTAL-126492NY TR Carrier WAT WATER AUTHORITY
 Ticket Date 05/22/2023 Vehicle# 224593 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver
 Hauling Ticket# Check#
 Route Billing # 0002489
 State Waste Code Gen EPA ID
 Manifest 12696765
 Destination Grid X20
 PO
 Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)
 Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

	Time	Scale	Operator	Inbound	Gross	
In	05/22/2023 12:55:53	Scale1	tjacks10		46880 lb	
Out	05/22/2023 13:06:18	Scale2	tjacks10		24680 lb	
					Net	22200 lb
					Tons	11.10

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC-	100	11.10	Tons				MON

Total Tax
 Total Ticket

Driver's Signature _____



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. <small>Generator's ID</small>		Manifest Doc No. <small>Number</small>		2. Page 1 of <small>Page</small>		93			
3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE FORBES 30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614			Generator's Site Address (if different than mailing): 536 CENTRAL AVE. ROCHESTER, NY 14605			A. Manifest Number WMNA		12696765			
4. Generator's Phone 585-428-7892 <small>Generator's Phone</small>			B. State Generator's ID <small>State Generator's ID</small>			C. State Transporter's ID <small>State Transporter ID</small>		D. Transporter's Phone <small>Transporter 1 Phone</small>			
5. Transporter 1 Company Name <i>CoR Water Bureau</i>			6. US EPA ID Number <small>US EPA ID Number</small>			E. State Transporter's ID <small>State Transporter ID</small>		F. Transporter's Phone <small>Transporter 2 Phone</small>			
7. Transporter 2 Company Name <small>Transporter 2 Company Name</small>			8. US EPA ID Number <small>US EPA ID Number</small>			G. State Facility ID <small>State Facility ID</small>		H. State Facility Phone 585-494-3000 <small>Facility Phone</small>			
9. Designated Facility Name and Site Address WM OF NEW YORK AT MILL SEAT LANDFILL 303 BREW RD. BERGEN, NY 14416			10. US EPA ID Number <small>US EPA ID Number</small>			I. Misc. Comments					
GENERATOR	11. Description of Waste Materials					12. Containers		13. Total Quantity	14. Unit Wt./Vol.		
	a. NON DOT REGULATED MATERIAL					No.	Type	Total Qty.	WT./Vol.		
	WM Profile # 126492NY										
	b. Waste Name					No.	Type	Total Qty.	WT./Vol.	Comments	
	WM Profile # <small>WM Profile Number</small>										
	c. Waste Name					No.	Type	Total Qty.	WT./Vol.	Comments	
WM Profile # <small>WM Profile Number</small>											
d. Waste Name					No.	Type	Total Qty.	WT./Vol.	Comments		
WM Profile # <small>WM Profile Number</small>											
J. Additional Descriptions for Materials Listed Above					K. Disposal Location						
					Cell			Level			
					Grid						
15. Special Handling Instructions and Additional Information 126492NY – GASOLINE CONTAMINATED URBAN FILL/DEBRIS WEIGHT IS ESTIMATED <small>Special</small> <small>Handling Instructions</small>											
Purchase Order # <small>Purchase Order Number</small>		EMERGENCY CONTACT / PHONE NO.: <small>Emergency Contact</small>									
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.											
Printed Name <i>Jane Forbes</i>				Signature <i>Jane Forbes</i>				Month	Day	Year	
								5	22	23	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials										
	Printed Name <i>Eric Torres</i>				Signature <i>Eric Torres</i>				Month	Day	Year
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed Name				Signature				Month	Day	Year	
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.										
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.										
Printed Name <i>Terma Jackson</i>				Signature <i>Terma Jackson</i>				Month	Day	Year	
								5	22	23	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY

Attachment D-3

Non-Hazardous Water Disposal Documentation

KT074

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

SO 381758

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

City of Rochester
160 Central Ave
Rochester NY

Generator's Phone:

6. Transporter 1 Company Name

KBH Inc

U.S. EPA ID Number

NYR000153353

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

Covenant
120 Dry Rd
Oriskany, NY

Facility's Phone:

NYR000005298

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1. NON HAZ - NON regulated water
NON-Hazardous petroleum + water

1 11T 1228 G

2. <10% gas

3.

4.

13. Special Handling Instructions and Additional Information

Tank Bottoms
Probic: 5020685

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name

Signature

Month Day Year

JANE FORBES

[Signature]

5 | 15 | 23

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

SE - Nagel

[Signature]

5 | 15 | 23

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

David Sobus

[Signature]

5 | 16 | 23

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

D159814

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYR000261578	2. Page 1 of 1	3. Emergency Response Phone 800-807-7455	4. Manifest Tracking Number 016455119 FLE		
5. Generator's Name and Mailing Address CITY OF ROCHESTER 30 CHURCH STREET ROCHESTER NY 14614 Generator's Phone: 585 428-7892				Attn: JANE FORBES Generator's Site Address (if different than mailing address) CITY OF ROCHESTER 536 CENTRAL AVENUE ROCHESTER NY 14605			
6. Transporter 1 Company Name SUN ENVIRONMENTAL CORP.				U.S. EPA ID Number NYR000176958			
7. Transporter 2 Company Name Solvents & Petroleum Services, Inc.				U.S. EPA ID Number NY001327454			
8. Designated Facility Name and Site Address CYCLE CHEM, INC. 550 INDUSTRIAL DRIVE LEWISBERRY PA 17339 Facility's Phone: 717 938-4700				U.S. EPA ID Number PAD067098822			
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. RQ UN3077, WASTE Environmentally hazardous substances, solid, n.o.s. (NON TSCA TANK SLUDGE) 9, PGIII	008	DM	03200	P	0008
	X	2. RQ UN3077, WASTE Environmentally hazardous substances, solid, n.o.s. (NON TSCA TANK SLUDGE, PPE, DEBRIS) 9, PGIII	003	DM	01200	P	0008
		3.					
		4.					
14. Special Handling Instructions and Additional Information 1) 240053-R01 (16 x 55g) Bar-4736 2) 240053-R01 (3x55g) Job #1001999 X PO #065305							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offero's Printed/Typed Name Jane M H Forbes				Signature <i>J. Forbes</i>		Month Day Year 16 18 2023	
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:						
	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name KEVIN CORT			Signature <i>K. Cort</i>		Month Day Year 06 18 23	
	Transporter 2 Printed/Typed Name Bernard Pettigrew			Signature <i>B. Pettigrew</i>		Month Day Year 06 22 23	
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input checked="" type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	18b. Alternate Facility (or Generator) U.S. EPA ID Number						
	18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H141		2. H141		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Ashley Little				Signature <i>A. Little</i>		Month Day Year 06 22 23	



Cycle Chem, Inc.

General Chemical Corporation

217 South First St.
Elizabeth, NJ 07206
Phone: (908) 355-5800
Fax: (908) 355-0562

550 Industrial Drive
Lewisberry, PA 17339
Phone: (717) 938-4700
Fax: (717) 938-3301

133-138 Leland Avenue
Framingham, MA 01702
Phone: (508) 827-5000
Fax: (508) 875-5271

LAND DISPOSAL RESTRICTION NOTIFICATION AND CERTIFICATION FORM

Generator Name: City of Rochester
Generator EPA ID #: NYR000260578
Manifest #: DIL455119 FLE

This land disposal restriction (LDR) notification must be submitted with the initial shipment of all new waste streams. Due to revised LDR notification requirements effective after August 23, 1998, previously approved waste streams will require re-notification on this form with the first shipment after that date. Subsequent notification is not required unless the waste stream changes.

(1) WASTE STREAM INFORMATION

- Box A: Check this box if this LDR certification has been supplied with a previous shipment. Additional information and certification is not required on this form.
Box B: Indicate if waste stream is a wastewater (WW) or non-wastewater (NWW) (aqueous waste streams containing < 1% total organic carbon (TOC) and < 1% total suspended solids (TSS) are wastewaters. All other streams are non-wastewaters).
Box C: List all EPA waste codes and subcategory reference letters (if applicable). Alternatively, attach and reference additional pages (e.g. profiles or lab pack slips) containing required information.

Table with 4 columns: Line #, A (Previously shipped LDR on file), B (NWW / WW), and C (EPA Waste Codes and subcategory reference letter (if applicable)). Row 1 contains handwritten entries: A, NWW, D008a.

Subcategory Reference Letters (EPA codes not listed here do not have subcategories)

Table with 3 columns: EPA Code, Subcategory Reference Letter, and Description. Lists codes D001 through D009 and their corresponding subcategories and descriptions.

Appendix A

May 2022 Investigation Summary Letter

January 16, 2023

Jane MH Forbes, MPA
Senior Environmental Specialist
City of Rochester - Division of Environmental Quality
30 Church Street Room 300 B
Rochester, NY 14614

**RE: Limited Subsurface Spill Investigation
536 Central Avenue Underground Storage Tanks**

Dear Ms. Forbes,

Lu Engineers is pleased to submit this summary letter to present findings of a recent subsurface investigation completed at 536 Central Avenue, located in the City of Rochester, New York (Figure 1). This report provides a brief description of the investigation, soil borings, and associated soil sampling completed on December 13, 2022.

Background

The Site is an undeveloped 0.73-acre parcel currently owned by the City of Rochester. A Phase I Environmental Site Assessment (ESA) was conducted for the property by Bergmann in September 2021 which identified the following recognized environmental conditions (RECs):

- The Site was historically used as a gas station, automotive repair facility, and a sausage factory which utilized an incinerator.
- Records indicated that multiple gasoline underground storage tanks (USTs) were installed in 1956; however, no New York State Department of Environmental Conservation (NYSDEC) removal/closure documentation was identified.
- Three (3) closed spills (No. 9970116, No. 9970147, and No. 0301787) are documented at 439 Central Avenue, located southwest of the Site.

Phase II ESA and geophysical evaluations conducted by Bergmann in February 2022 identified an anomalous subsurface feature in the vicinity of the historically reported USTs, located in the southwest corner of the Site. Additionally, Geoprobe® soil borings advanced as part of the Phase II encountered a suspected orphan tank within the area of the subsurface anomaly, suggesting the presence of multiple USTs. Petroleum product was observed in the soil borings at which point the City of Rochester was notified and NYSDEC active spill No. 2109562 was assigned to the Site.

On May 26, 2022, Lu Engineers, Bergmann, and Sun Environmental Inc. (Sun) mobilized to the Site to conduct closure of the known UST(s). Sun began by utilizing an excavator to remove overburden soils and locate the UST(s) in the vicinity of the documented geophysical anomaly. A total of seven (7) USTs were located upon expansion of the initial excavation. Petroleum-impacted soils were not observed during the excavation; it is noted that the limited excavations (maximum depth of approximately 5-feet) performed did not allow access to tank contents or surrounding underlying soils. Large quantities of construction and demolition debris (C&D), including concrete, brick, and masonry, were encountered throughout the excavation.

The volume of potential remaining product and contents of the tanks could not be determined during the limited excavation; however, based on the GPR signatures and observations made in the field, comparison to the Highland Tank Chart estimates that each is a former 1,000-gallon gasoline UST.

Subsurface investigation work discussed herein was performed in accordance with Lu Engineers proposal (approved by the City of Rochester), dated December 03, 2022. The scope of work was selected in order to characterize subsurface conditions associated with the USTs to facilitate development of a waste (soil) profile for future removal of the tanks and disposal of excess soils. The following sections summarize the activities and findings of the subsurface investigation.

Soil Borings

On December 13, 2022, Trec Environmental Inc. (Trec) mobilized a 54LT direct-push Geoprobe® to the Site to implement the soil boring program with oversight from Lu Engineers. In accordance with the proposed scope of services for this project, eight (8) soil borings were advanced to refusal depths, which ranged between 14 and 16-foot feet below ground surface (bgs). The soil boring program was implemented with the goal of delineating the vertical and lateral extent of subsurface impacts associated with past release(s) from the USTs. Borings and associated soil sample locations are indicated on Figures 2 and 3. It is noted that due to the limited nature of previous excavations, the precise layout and dimensions of the USTs could not be verified. Soil boring locations were conservatively selected to assure adequate distance from the USTs to avoid additional damage and prevent a possible petroleum release.

Soils were logged using the Burmister Classification System and screened for volatile organic compounds (VOCs) by qualified Lu Engineers personnel. Several methods were utilized to detect impacted soil including the use of a MiniRAE 3000® Photoionization Detector (PID) for screening, as well as visual and olfactory observations.

Site soils generally consisted of previously disturbed soils (urban fill) underlain by native soils with primary components of fine sand and silt, and lesser portions of clay. Suspected fill was comprised of sand and gravel with varying portions of construction/demolition debris mixed throughout. Bedrock was encountered at depths ranging between 14 and 16-foot bgs. Groundwater was not encountered during the investigation; however, based on soil moisture content, apparent groundwater elevations coincide with the bedrock/overburden interface. Descriptions of soils encountered and related observations from each boring are provided in the attached soil boring logs (Attachment B). After the subsurface investigation was complete, borings were backfilled with extracted soils and/or bentonite flush to grade.

Investigation Findings & Sampling

As noted in the boring logs, screening of soils during the subsurface investigation indicated evidence of petroleum residues likely associated with a past release(s). Strong gasoline/degraded petroleum odors were observed at multiple borings. No free-phase petroleum was observed during the investigation.

PID screening throughout the soil boring program detected a volatile organic vapor concentrations ranging from 0 to 1655 parts per million (ppm), with the peak reading being observed at GP-01. It is noted that GP-01 is topographically downgradient of the identified USTs. Upgradient borings GP-06 through GP-08 exhibited lesser signs of subsurface petroleum impacts.



Soil samples were collected for the following laboratory analyses in accordance with the City’s scope of work:

- CP-51 VOCs by Environmental Protection Agency (EPA) Method 8260;
- CP-51 Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270;
- Resource Conservation and Recovery Act (RCRA) Metals by EPA Method 6010;
- Polychlorinated biphenyls (PCBs) by EPA Method 8082;

To facilitate characterization relative to excavated materials handling and likely off-Site disposal, representative urban fill samples were collected for the following laboratory analysis:

- Target Compound List (TCL) VOCs by EPA Method 8260;
- TCL SVOCs by EPA Method 8270;
- RCRA Metals by EPA Method 6010;
- Total Pesticides/Herbicides by EPA Method 8151;
- PCBs by EPA Method 8082;
- Reactive cyanide/sulfide by EPA Method 7.3.3.2/7.3.4.2;
- pH by EPA Method 9045; and
- Ignitability/flashpoint by EPA Method 1010;

It is noted that in accordance with NYSDEC standards, grab sampling was conducted for waste characterization samples analyzed for VOCs. Refer to the following table for additional information:

Sample ID	Depth (ft. bgs)	Peak PID Readings (ppm)	Analyses
Spill Characterization Samples			
GP-02	13 to 13.5'	1308	CP-51 VOCs, CP-51 SVOCs, RCRA Metals, PCBs
GP-03	11.5 to 12'	0.4	
GP-04	10.5 to 11'	0.3	
GP-06	12-12.5'	0.0	
GP-08	13.5-14'	0.0	
Urban Fill Waste Characterization Samples			
Fill-Comp-01	0 to 4'	0.0	TCL SVOCs, RCRA Metals, Pesticides, Herbicides, PCBs, Reactivity, pH, Ignitability
Fill-Comp-02			
Fill-Comp-03			
Fill-01	2'		TCL VOCs
Fill-02	2.5'		
Fill-03	2'		

In accordance with applicable NYSDEC protocols, all samples were stored on ice until relinquishment for laboratory analysis to Paradigm Environmental Services Inc., a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) analytical laboratory.



Spill Characterization Sample Results

Soil sample analytical results were compared to 6 New York Codes, Rules, and Regulations (6 NYCRR) Part 375-6.8(a) and NYSDEC Commissioner Policy 51 (CP-51) Soil Cleanup Objectives (SCOs):

VOC Results

- Sampling identified multiple low-level petroleum-related VOCs in the vicinity of the tanks.
 - Xylenes detected at GP-02 exceed Unrestricted Use SCOs.
 - All other detected VOCs were identified at concentrations below applicable regulatory criteria.

SVOC Results

- Concentrations of SVOCs were detected below Unrestricted Use criteria.

Metals Results

- Concentrations of metals were detected below Unrestricted Use criteria.

PCB Results

- No detectable concentrations of PCBs were identified in the laboratory analyzed soil samples.

Urban Fill Characterization Sample Results

Urban fill sample analytical results were compared to 6 NYCRR Part 375-6.8(a) SCOs:

VOC & SVOC Results

- VOCs and SVOCs were detected below Unrestricted Use criteria for all analyzed samples.

PCB, Pesticide/Herbicide Results

- PCBs, pesticides, and herbicides were detected below Unrestricted Use criteria for all analyzed samples.

Metals Results

- Lead and mercury were detected in exceedance of Unrestricted Use criteria in sample 'Fill-Comp-03.'
 - Based on total lead concentrations observed in 'Fill-Comp-03', TCLP lead analysis was performed which did not detect a concentration above the minimum laboratory quantitation limit.

General Chemistry Results

- pH ranged between 8.35 and 8.64, within acceptable non-hazardous waste disposal requirements.
- Concentrations of reactive cyanide or sulfide were not detected in any of the analyzed samples.
- The samples were determined to not be ignitable.

Refer to the attached Tables and Figures for a summary of analytical results; a copy of the laboratory analytical report is included as Attachment C.

Conclusions & Recommendations

The analytical results obtained during this investigation suggest petroleum impairment (primarily in the southwest corner of the Site) associated with past release(s) from the previously identified USTs. It is noted that based on subsurface evaluations conducted to date, deeper excavations closer to and beneath the USTs will likely encounter greater degrees of petroleum impairment. Urban fill throughout the planned excavation areas for future tank closures exceeds Unrestricted Use criteria for lead and mercury, and, if to be taken off-Site, will require disposal in accordance with applicable requirements set forth in 6 NYCRR Part 360.



Lu Engineers recommends closure and removal of the USTs in accordance with applicable regulatory criteria, including NYSDEC 'Permanent Closure of Petroleum Storage Tanks' memorandum dated December 2003 as well as 6 NYCRR 613.9(b) Closure of Tanks Permanently Out-of-Service.

Petroleum-impacted soils surrounding the USTs may require isolated removal and/or in-situ application of one (1) or more remedial agents during the closure process. Tank closure and remedial work must be coordinated with the NYSDEC to facilitate a clear record of compliance with all applicable requirements and verification of successful mitigation of the environmental impairments to facilitate spill closure.

Please contact us with any questions or comments you may have.

Respectfully Submitted,



Gregory L. Andrus, P.G.
Group Leader
Environmental Investigation/Remediation Group



Benjamin Seifert
Geologist; GIS Specialist
Environmental Investigation/Remediation Group

Enclosure(s):

Figures:

- Figure 1 – Site Location Map
- Figure 2 – Site Plan
- Figure 3 – Sample Analytical Results

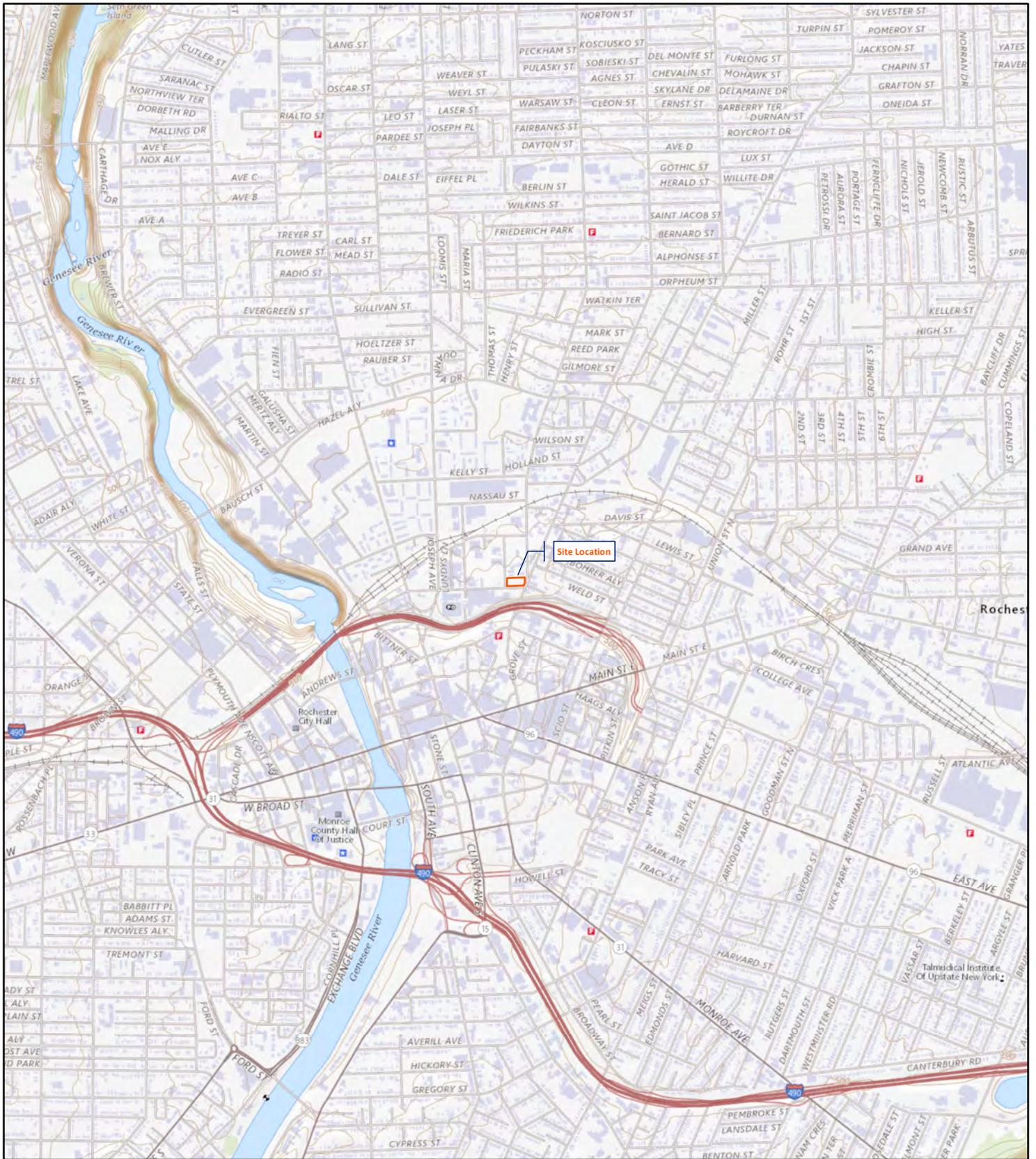
Tables:

- Table 1 – Spill Characterization Analytical Results
- Table 2 – Urban Fill Characterization Analytical Results

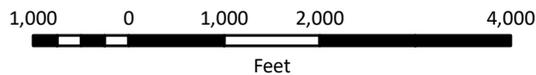
Attachments:

- Attachment A – Photos
- Attachment B – Soil Boring Logs
- Attachment C – Laboratory Report





Scale 1: 24,000



Contour Interval: 10-feet



Figure 1. Site Location Map
536 Central Avenue
City of Rochester, NY



DATE: January 2023
PROJECT #: 4229-57
DRAWN/CHECKED: BGS/GLA
DATA SOURCE: ESRI Online Basemap

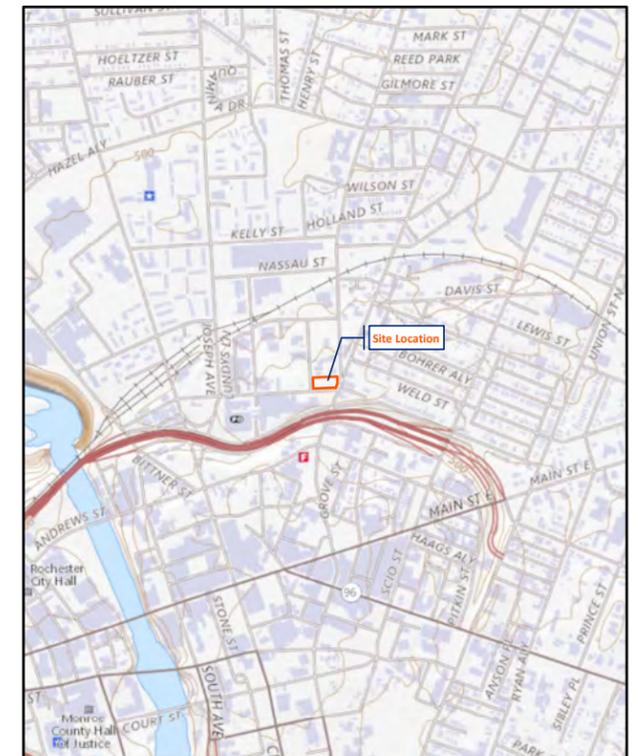


Figure 2.
 Site Plan

Project:
 City of Rochester
 536 Central Avenue UST Closure

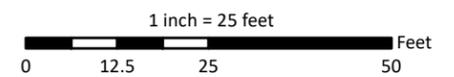
Location:
 536 Central Avenue
 City of Rochester, Monroe County, NY



Legend

- Site Boundary
- Monroe County Topographic Contour (1-ft)
- 1950 Sanborn Map Structure
- Previously Installed Soil Boring

Note: Tank sizes approximated at 4' x 10' (1,000-gallons)



Drawn/Checked By: BGS/GLA

Lu Project Number: 4229-57

Date: January 2023

Notes:

1. Coordinate System: NAD 1983 State Plane NY West FIPS 3103 Feet
2. Orthoimagery (April 2021) downloaded from Pictometry, topo from Monroe County GIS
3. 1950 Sanborn from Library of Congress website
4. Scale: 1:300 (original document size 11"x17")



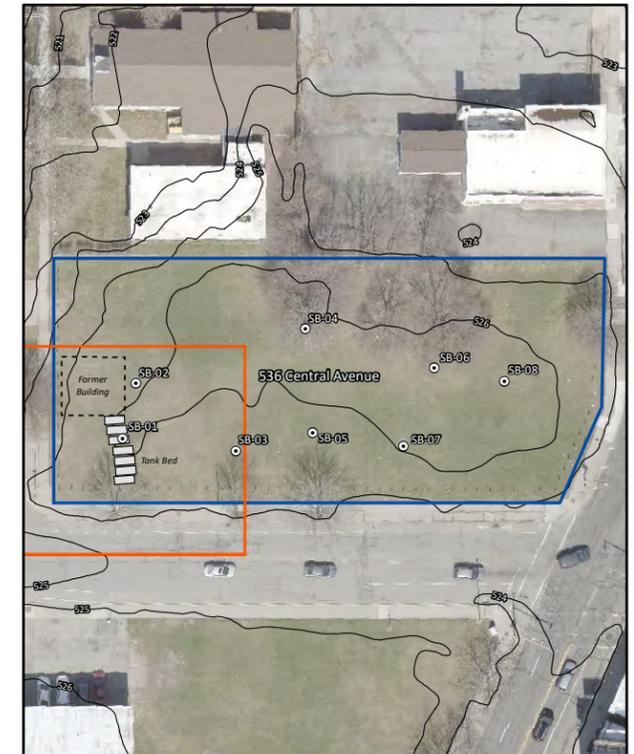
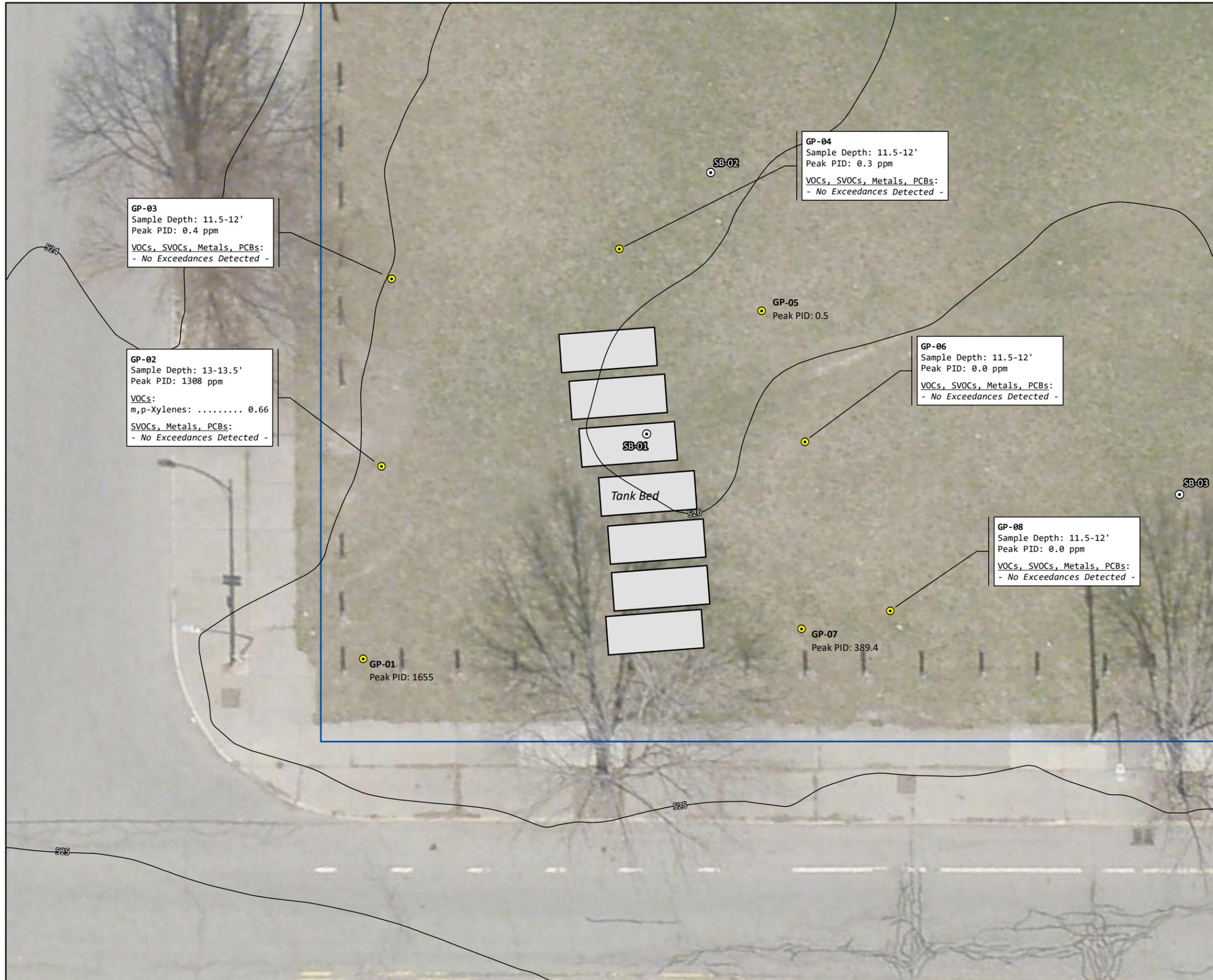


Figure 3.
 Analytical Results Map

Project:
 City of Rochester
 536 Central Avenue UST Closure

Location:
 536 Central Avenue
 City of Rochester, Monroe County, NY



Legend

- Site Boundary
 - 1950 Sanborn Map Structure
 - Lu Engineers Soil Boring
 - Previously Installed Soil Boring
- Notes:**
- Results presented in parts per million (ppm)
 - Reported result indicates exceedance of Unrestricted Use criteria
 - Tank sized approximated at 4' x 10' (1,000-gallons)



Drawn/Checked By: BGS/GLA
 Lu Project Number: 4229-57
 Date: January 2023

Notes:

- Coordinate System: NAD 1983 State Plane NY West FIPS 3103 Feet
- Orthoimagery (April 2021) downloaded from Pictometry, topo from Monroe County GIS
- 1950 Sanborn from Library of Congress website
- Scale: 1:300 (original document size 11"x17")

536 Central Avenue- Limited Subsurface Investigation

Table 1. Spill Characterization Sampling

Soil Sample Analytical Results Detected Parameters ¹ :	Sample ID:				GP-02	GP-03	GP-04	GP-06	GP-08					
	Sample Depth:				13-13.5'	11.5-12'	10.5-11'	12-12.5'	13.5-14'					
	Date:				12/13/2022	12/14/2022	12/15/2022	12/16/2022	12/13/2022					
EPA 8260-VOCs	Part 375 SCOs ²				Result	Q	Result	Q	Result	Q				
	Prot. of GW	Unrestricted	Commerical	Industrial										
1,2,4-Trimethylbenzene	3.6	3.6	190	380	3.47		0.00839	<	0.00848	0.111	<	0.01080		
1,3,5-Trimethylbenzene	8.4	8.4	190	380	1.31	<	0.00689	<	0.00848	0.0378	<	0.01080		
Benzene	0.06	0.06	44	89	<	0.13000	<	0.00689	<	0.00848	<	0.00722	<	0.01080
Ethylbenzene	1	1	390	780	<	0.13000	<	0.00689	<	0.00848	0.0136	<	0.01080	
Isopropylbenzene	10	--	--	--	<	0.13000	<	0.00689	<	0.00848	<	0.00722	<	0.01080
m,p-Xylene	1.6	0.26	500	1,000	0.66		0.00721	<	0.00848	0.0317	<	0.01080		
Methyl tert-butyl Ether	0.93	0.93	500	1,000	<	0.13000	<	0.00689	<	0.00848	<	0.00722	<	0.01080
Naphthalene	12	12	500	1,000	0.41	<	0.01720	<	0.02120	<	0.01810	<	0.02700	
n-Butylbenzene	--	12	--	--	<	0.13000	<	0.00689	<	0.00848	0.00736	<	0.01080	
n-Propylbenzene	3.9	3.9	500	1,000	0.38	<	0.00689	<	0.00848	0.0139	<	0.01080		
o-Xylene	1.6	0.26	500	1,000	<	0.13000	<	0.00689	<	0.00848	<	0.00722	<	0.01080
p-Isopropyltoluene	--	--	--	--	<	0.13000	<	0.00689	<	0.00848	<	0.00722	<	0.01080
sec-Butylbenzene	11	11	500	1,000	<	0.13000	<	0.00689	<	0.00848	<	0.00722	<	0.01080
tert-Butylbenzene	5.9	5.9	500	1,000	<	0.13000	<	0.00689	<	0.00848	<	0.00722	<	0.01080
Toluene	0.7	0.7	500	1,000	<	0.13000	<	0.00689	<	0.00848	<	0.00722	<	0.01080
EPA 8260-VOCs	Part 375 SCOs ²				Result	Q	Result	Q	Result	Q	Result	Q		
	Prot. of GW	Unrestricted	Commerical	Industrial										
Acenaphthene	98	20	500	1,000	<	0.290	<	0.322	<	0.299	<	0.308	<	0.313
Acenaphthylene	107	100	500	1,000	<	0.290	<	0.322	<	0.299	<	0.308	<	0.313
Anthracene	1,000	100	500	1,000	<	0.290	<	0.322	<	0.299	<	0.308	<	0.313
Benzo (a) anthracene	1	1	5.6	11	<	0.290	<	0.322	<	0.299	<	0.308	<	0.313
Benzo (a) pyrene	22	1	1	1.1	<	0.290	<	0.322	<	0.299	<	0.308	<	0.313
Benzo (b) fluoranthene	1.7	1	5.6	11	<	0.290	<	0.322	<	0.299	<	0.308	<	0.313
Benzo (g,h,i) perylene	1,000	100	500	1,000	<	0.290	<	0.322	<	0.299	<	0.308	<	0.313
Benzo (k) fluoranthene	1.7	0.8	56	110	<	0.290	<	0.322	<	0.299	<	0.308	<	0.313
Chrysene	1	1	56	110	<	0.290	<	0.322	<	0.299	<	0.308	<	0.313
Dibenz (a,h) anthracene	1,000	0.33	0.56	1.1	<	0.290	<	0.322	<	0.299	<	0.308	<	0.313
Fluoranthene	1,000	100	500	1,000	<	0.290	<	0.322	<	0.299	<	0.308	<	0.313
Fluorene	386	30	500	1,000	<	0.290	<	0.322	<	0.299	<	0.308	<	0.313
Indeno (1,2,3-cd) pyrene	8.2	0.5	5.6	11	<	0.290	<	0.322	<	0.299	<	0.308	<	0.313
Naphthalene	12	12	500	1,000	<	0.290	<	0.322	<	0.299	<	0.308	<	0.313
Phenanthrene	1,000	100	500	1,000	<	0.290	<	0.322	<	0.299	<	0.308	<	0.313
Pyrene	1,000	100	500	1,000	<	0.290	<	0.322	<	0.299	<	0.308	<	0.313

Notes:

1 - All values presented in parts per million (ppm)

2 - NYSDEC Part 375 Soil Cleanup Objectives

< Substance not identified above the minimum laboratory quantitation limit

-- Sample not analyzed for referenced parameter

	Value exceeds Unrestricted Use SCO
	Value exceeds Commercial Use SCO
	Value exceeds Industrial Use SCO

536 Central Avenue- Limited Subsurface Investigation

Table 1. Spill Characterization Sampling

Soil Sample Analytical Results Detected Parameters ¹ :	Sample ID:				GP-02	GP-03	GP-04	GP-06	GP-08					
	Sample Depth:				13-13.5'	11.5-12'	10.5-11'	12-12.5'	13.5-14'					
	Date:				12/13/2022	12/14/2022	12/15/2022	12/16/2022	12/13/2022					
EPA 6010-RCRA Metals	Part 375 SCOs ²				Result	Q	Result	Q	Result	Q	Result	Q		
	Prot. of GW	Unrestricted	Commerical	Industrial										
Arsenic	16	13	16	16	1.28		2.12		0.903		1.51		0.755	
Barium	820	350	400	10,000	25.4		22.5		28.8		36.0		28.7	
Cadmium	7.5	2.5	9.3	60	0.695		0.516		0.638		1.34		0.593	
Chromium	--	30	1,500	6,800	8.71		5.16		6.64		13.7		5.72	
Lead	450	63	1,000	3,900	7.59	<	0.573	<	0.531	<	0.560	<	0.539	
Selenium	4	3.9	1,500	6,800	<	1.07	<	1.15	<	1.06	<	1.12	<	1.08
Silver	8.3	2	1,500	6,800	<	0.53	<	0.573	<	0.53	<	0.56	<	0.54
Mercury	0.73	0.18	2.8	5.7	0.0121	<	0.00817	<	0.00855		0.0465		0.00798	
EPA 8082-PCBs	Part 375 SCOs ²				Result	Q	Result	Q	Result	Q	Result	Q		
	Prot. of GW	Unrestricted Use	Commerical Use	Industrial Use										
Aroclor 1016	3.2	0.1	1	25	<	0.179	<	0.168	<	0.156	<	0.167	<	0.152
Aroclor 1221	3.2	0.1	1	25	<	0.179	<	0.168	<	0.156	<	0.167	<	0.152
Aroclor 1232	3.2	0.1	1	25	<	0.179	<	0.168	<	0.156	<	0.167	<	0.152
Aroclor 1242	3.2	0.1	1	25	<	0.179	<	0.168	<	0.156	<	0.167	<	0.152
Aroclor 1248	3.2	0.1	1	25	<	0.179	<	0.168	<	0.156	<	0.167	<	0.152
Aroclor 1254	3.2	0.1	1	25	<	0.179	<	0.168	<	0.156	<	0.167	<	0.152
Aroclor 1260	3.2	0.1	1	25	<	0.179	<	0.168	<	0.156	<	0.167	<	0.152
Aroclor 1268	3.2	0.1	1	25	<	0.179	<	0.168	<	0.156	<	0.167	<	0.152
Aroclor 1262	3.2	0.1	1	25	<	0.179	<	0.168	<	0.156	<	0.167	<	0.152

Notes:

1 - All values presented in parts per million (ppm)

2 - NYSDEC Part 375 Soil Cleanup Objectives

< Substance not identified above the minimum laboratory quantitation limit

-- Sample not analyzed for referenced parameter

	Value exceeds Unrestricted Use SCO
	Value exceeds Commercial Use SCO
	Value exceeds Industrial Use SCO

536 Central Avenue - Limited Subsurface Investigation

Table 2. Fill Characterization Sampling

Soil Sample Analytical Results Detected Parameters ¹ :	Sample ID:		Fill-01	Fill-Comp-01	Fill-02	Fill-Comp-02	Fill-03	Fill-Comp-03				
	Sample Depth:		2'	0-4'	2.5'	0-4'	2'	0-4'				
	Date:		12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022				
	Part 375 SCOs ²			Result	Q	Result	Q	Result	Q			
EPA 8260-VOCs			Unrestricted Use	Commercial Use	Industrial Use							
1,1,1-Trichloroethane	0.68	500	1,000	<	0.00938	--	<	0.00986	--	<	0.00684	--
1,1,2,2-Tetrachloroethane	--	--	--	<	0.00938	--	<	0.00986	--	<	0.00684	--
1,1,2-Trichloroethane	--	--	--	<	0.00938	--	<	0.00986	--	<	0.00684	--
1,1-Dichloroethane	0.27	240	480	<	0.00938	--	<	0.00986	--	<	0.00684	--
1,1-Dichloroethene	0.33	500	1,000	<	0.00938	--	<	0.00986	--	<	0.00684	--
1,2,3-Trichlorobenzene	--	--	--	<	0.02340	--	<	0.02470	--	<	0.01710	--
1,2,4-Trichlorobenzene	--	--	--	<	0.02340	--	<	0.02470	--	<	0.01710	--
1,2-Dibromo-3-Chloropropane	--	--	--	<	0.04690	--	<	0.04930	--	<	0.03420	--
1,2-Dibromoethane	--	--	--	<	0.00938	--	<	0.00986	--	<	0.00684	--
1,2-Dichlorobenzene	1.1	500	1,000	<	0.00938	--	<	0.00986	--	<	0.00684	--
1,2-Dichloroethane	0.02	30	60	<	0.00938	--	<	0.00986	--	<	0.00684	--
1,2-Dichloropropane	--	--	--	<	0.00938	--	<	0.00986	--	<	0.00684	--
1,3-Dichlorobenzene	2.4	280	560	<	0.00938	--	<	0.00986	--	<	0.00684	--
1,4-Dichlorobenzene	1.8	130	250	<	0.00938	--	<	0.00986	--	<	0.00684	--
1,4-Dioxane	0.1	130	250	<	0.04690	--	<	0.04930	--	<	0.03420	--
2-Butanone	0.12	500	1,000	<	0.04690	--	<	0.04930	--	<	0.03420	--
2-Hexanone	--	--	--	<	0.02340	--	<	0.02470	--	<	0.01710	--
4-Methyl-2-pentanone	--	--	--	<	0.02340	--	<	0.02470	--	<	0.01710	--
Acetone	0.05	500	1,000	<	0.04690	--	<	0.04930	--	<	0.03420	--
Benzene	0.06	44	89	<	0.00938	--	<	0.00986	--	<	0.00684	--
Bromochloromethane	--	--	--	<	0.02340	--	<	0.02470	--	<	0.01710	--
Bromodichloromethane	--	--	--	<	0.00938	--	<	0.00986	--	<	0.00684	--
Bromoform	--	--	--	<	0.02340	--	<	0.02470	--	<	0.01710	--
Bromomethane	--	--	--	<	0.00938	--	<	0.00986	--	<	0.00684	--
Carbon disulfide	--	--	--	<	0.00938	--	<	0.00986	--	<	0.00684	--
Carbon Tetrachloride	0.76	22	44	<	0.00938	--	<	0.00986	--	<	0.00684	--
Chlorobenzene	1.1	500	1,000	<	0.00938	--	<	0.00986	--	<	0.00684	--
Chloroethane	--	--	--	<	0.00938	--	<	0.00986	--	<	0.00684	--
Chloroform	0.37	350	700	<	0.00938	--	<	0.00986	--	<	0.00684	--
Chloromethane	--	--	--	<	0.00938	--	<	0.00986	--	<	0.00684	--
cis-1,2-Dichloroethene	0.25	500	1,000	<	0.00938	--	<	0.00986	--	<	0.00684	--
cis-1,3-Dichloropropene	--	--	--	<	0.00938	--	<	0.00986	--	<	0.00684	--
Cyclohexane	--	--	--	<	0.04690	--	<	0.04930	--	<	0.03420	--
Dibromochloromethane	--	--	--	<	0.00938	--	<	0.00986	--	<	0.00684	--
Dichlorodifluoromethane	--	--	--	<	0.00938	--	<	0.00986	--	<	0.00684	--
Ethylbenzene	1	390	780	<	0.00938	--	<	0.05470	--	<	0.00684	--
Freon 113	--	--	--	<	0.00938	--	<	0.00986	--	<	0.00684	--
Isopropylbenzene	--	--	--	<	0.00938	--	<	0.00986	--	<	0.00684	--
m,p-Xylene	0.26	500	1,000	<	0.01630	--	<	0.16700	--	<	0.00684	--
Methyl acetate	--	--	--	<	0.00938	--	<	0.00986	--	<	0.00684	--
Methyl tert-butyl Ether	0.93	500	1,000	<	0.00938	--	<	0.00986	--	<	0.00684	--
Methylcyclohexane	--	--	--	<	0.00938	--	<	0.00986	--	<	0.00684	--
Methylene chloride	0.05	500	1,000	<	0.02340	--	<	0.02470	--	<	0.01710	--
o-Xylene	0.26	500	1,000	<	0.00938	--	<	0.01240	--	<	0.00684	--
Styrene	--	--	--	<	0.02340	--	<	0.02470	--	<	0.01710	--
Tetrachloroethene	1.3	150	300	<	0.00938	--	<	0.00986	--	<	0.00684	--
Toluene	0.7	500	1,000	<	0.00938	--	<	0.00986	--	<	0.00684	--
trans-1,2-Dichloroethene	0.19	500	1,000	<	0.00938	--	<	0.00986	--	<	0.00684	--
trans-1,3-Dichloropropene	--	--	--	<	0.00938	--	<	0.00986	--	<	0.00684	--
Trichloroethene	0.47	200	400	<	0.00938	--	<	0.00986	--	<	0.00684	--
Trichlorofluoromethane	--	--	--	<	0.00938	--	<	0.00986	--	<	0.00684	--
Vinyl chloride	0.02	13	27	<	0.00938	--	<	0.00986	--	<	0.00684	--

- Notes:
 1 - All values presented in parts per million (ppm)
 2 - NYSDEC Part 375 Soil Cleanup Objectives
 < Substance not identified above the minimum laboratory quantitation limit
 -- Sample not analyzed for referenced parameter

	Value exceeds Unrestricted Use SCO
	Value exceeds Commercial Use SCO
	Value exceeds Industrial Use SCO

536 Central Avenue - Limited Subsurface Investigation

Table 2. Fill Characterization Sampling

Soil Sample Analytical Results Detected Parameters ¹ :	Sample ID:		Fill-01	Fill-Comp-01	Fill-02	Fill-Comp-02	Fill-03	Fill-Comp-03
	Sample Depth:		2'	0-4'	2.5'	0-4'	2'	0-4'
	Date:		12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022
	Part 375 SCOs ²		Unrestricted Use	Commercial Use	Industrial Use	Result	Q	Result
FPA 8260-VOCs								
1,1-Biphenyl								
1,2,4,5-Tetrachlorobenzene								
1,2,4-Trichlorobenzene								
1,2-Dichlorobenzene								
1,3-Dichlorobenzene								
1,4-Dichlorobenzene								
2,2-Oxybis (1-chloropropane)								
2,3,4,6-Tetrachlorophenol								
2,4,5-Trichlorophenol								
2,4,6-Trichlorophenol								
2,4-Dichlorophenol								
2,4-Dimethylphenol								
2,4-Dinitrophenol								
2,4-Dinitrotoluene								
2,6-Dinitrotoluene								
2-Chloronaphthalene								
2-Chlorophenol								
2-Methylnaphthalene								
2-Methylphenol								
2-Nitroaniline								
2-Nitrophenol								
3,4-Methylphenol								
3,3'-Dichlorobenzidine								
3-Nitroaniline								
4,6-Dinitro-2-methylphenol								
4-Bromophenyl phenyl ether								
4-Chloro-3-methylphenol								
4-Chloroaniline								
4-Chlorophenyl phenyl ether								
4-Nitroaniline								
4-Nitrophenol								
Acenaphthene	20	500	1,000					
Acenaphthylene	100	500	1,000					
Acetophenone								
Anthracene	100	500	1,000					
Atrazine								
Benzaldehyde								
Benzo (a) anthracene	1	5.6	11					
Benzo (a) pyrene	1	1	1.1					
Benzo (b) fluoranthene	1	5.6	11					
Benzo (g,h,i) perylene	100	500	1,000					
Benzo (k) fluoranthene	0.8	56	110					
Bis (2-chloroethoxy) methane								
Bis (2-chloroethyl) ether								
Bis (2-ethylhexyl) phthalate								
Butylbenzylphthalate								
Caprolactam								
Carbazole								
Chrysene	1	56	110					
Dibenz (a,h) anthracene	0.33	0.56	1.1					
Dibenzofuran	7	350	1,000					
Diethyl phthalate								
Dimethyl phthalate								
Di-n-butyl phthalate								
Di-n-octylphthalate								
Fluoranthene	100	500	1,000					
Fluorene	30	500	1,000					
Hexachlorobenzene		6	12					
Hexachlorobutadiene	0.5	5.6	11					
Hexachlorocyclopentadiene								
Hexachloroethane								
Indeno (1,2,3-cd) pyrene								
Isothorone								
Naphthalene	12	500	1,000					
Nitrobenzene								
N-Nitroso-di-n-propylamine								
N-Nitrosodiphenylamine								
Pentachlorophenol	0.8	6.7	55					
Phenanthrene	100	500	1,000					
Phenol	0.33	500	1,000					
Pyrene	100	500	1,000					

Notes:
 1 - All values presented in parts per million (ppm)
 2 - NYSDEC Part 375 Soil Cleanup Objectives
 < Substance not identified above the minimum laboratory quantitation limit
 -- Sample not analyzed for referenced parameter

	Value exceeds Unrestricted Use SCO
	Value exceeds Commercial Use SCO
	Value exceeds Industrial Use SCO

536 Central Avenue - Limited Subsurface Investigation

Table 2. Fill Characterization Sampling

Soil Sample Analytical Results Detected Parameters ¹ :	Sample ID:			Fill-01	Fill-Comp-01	Fill-02	Fill-Comp-02	Fill-03	Fill-Comp-03				
	Sample Depth:			2'	0-4'	2.5'	0-4'	2'	0-4'				
	Date:			12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022	12/13/2022				
EPA 6010-RCRA Metals	Part 375 SCOs ²			Result	Q	Result	Q	Result	Q	Result	Q		
	Unrestricted Use	Commercial Use	Industrial Use										
	Arsenic	13	16	16	--	<	0.527	--		2.67	--	4.21	
	Barium	350	400	10,000	--		22.7	--		65.4	--	81.4	
	Cadmium	2.5	9.3	60	--		0.580	--		0.942	--	1.12	
	Chromium	30	1,500	6,800	--		6.90	--		11.3	--	11.2	
	Lead	63	1,000	3,900	--		3.80	--		11.0	--	213	
	Selenium	3.9	1,500	6,800	--	<	1.05	--	<	1.05	--	<	1.06
	Silver	2	1,500	6,800	--	<	0.527	--	<	0.52	--	<	0.53
	Mercury	0.18	2.8	5.7	--	<	0.00816	--		0.0352	--	2.38	
EPA 8081-Pesticides	Part 375 SCOs ²			Result	Q	Result	Q	Result	Q	Result	Q		
	Unrestricted Use	Commercial Use	Industrial Use										
	4,4-DDD	0.0033	92	180	--	<	0.0037	--	<	0.0036	--	<	0.0037
	4,4-DDE	0.0033	62	120	--	<	0.0037	--	<	0.0036	--	<	0.0037
	4,4-DDT	0.0033	47	94	--	<	0.0037	--	<	0.0036	--	<	0.0037
	Aldrin	0.005	0.68	1.4	--	<	0.0019	--	<	0.0019	--	<	0.0019
	alpha-BHC	0.02	3.4	6.8	--	<	0.0019	--	<	0.0019	--	<	0.0019
	beta-BHC	0.036	3	14	--	<	0.0019	--	<	0.0019	--	<	0.0019
	Chlordane	--	--	--	--	<	0.1900	--	<	0.1900	--	<	0.1900
	cis-Chlordane	0.094	24	47	--	<	0.0019	--	<	0.0019	--	<	0.0019
	delta-BHC	0.04	500	1,000	--	<	0.0019 M	--	<	0.0019	--	<	0.0019
	Dieldrin	0.005	1.4	2.8	--	<	0.0037	--	<	0.0036	--	<	0.0037
	Endosulfan I	2.4	200	920	--	<	0.0019	--	<	0.0019	--	<	0.0019
	Endosulfan II	2.4	200	920	--	<	0.0037	--	<	0.0036	--	<	0.0037
	Endosulfan Sulfate	2.4	200	920	--	<	0.0037	--	<	0.0036	--	<	0.0037
	Endrin	0.014	89	410	--	<	0.0037	--	<	0.0036	--	<	0.0037
	Endrin Aldehyde	--	--	--	--	<	0.0037	--	<	0.0036	--	<	0.0037
	Endrin Ketone	--	--	--	--	<	0.0037	--	<	0.0036	--	<	0.0037
	gamma-BHC (Lindane)	0.1	9.2	23	--	<	0.0019	--	<	0.0019	--	<	0.0019
	Heptachlor	0.042	15	29	--	<	0.0019	--	<	0.0019	--	<	0.0019
	Heptachlor Epoxide	--	--	--	--	<	0.0023	--	<	0.0022	--	<	0.0023
	Methoxychlor	--	--	--	--	<	0.0190	--	<	0.0190	--	<	0.0190
	Toxaphene	--	--	--	--	<	0.1900	--	<	0.1900	--	<	0.1900
	trans-Chlordane	--	--	--	--	<	0.0019	--	<	0.0019	--	<	0.0019
	EPA 8081-Herbicides	Part 375 SCOs ²			Result	Q	Result	Q	Result	Q	Result	Q	
		Unrestricted Use	Commercial Use	Industrial Use									
		2,4,5-Trichlorophenoxyacetic acid	--	--	--	--	<	0.340	--	<	0.331	--	<
2,4,5-TP (Silvex)		3.8	500	1,000	--	<	0.340	--	<	0.331	--	<	0.339
2,4-Dichlorophenoxyacetic acid	--	--	--	--	<	1.36	--	<	1.33	--	<	1.36	
EPA 8082-PCBs	Part 375 SCOs ²			Result	Q	Result	Q	Result	Q	Result	Q		
	Unrestricted Use	Commercial Use	Industrial Use										
	Aroclor 1016	0.1	1	25	--	<	0.145	--	<	0.154	--	<	0.169
	Aroclor 1221	0.1	1	25	--	<	0.145	--	<	0.154	--	<	0.169
	Aroclor 1232	0.1	1	25	--	<	0.145	--	<	0.154	--	<	0.169
	Aroclor 1242	0.1	1	25	--	<	0.145	--	<	0.154	--	<	0.169
	Aroclor 1248	0.1	1	25	--	<	0.145	--	<	0.154	--	<	0.169
	Aroclor 1254	0.1	1	25	--	<	0.145	--	<	0.154	--	<	0.169
	Aroclor 1260	0.1	1	25	--	<	0.145	--	<	0.154	--	<	0.169
	Aroclor 1268	0.1	1	25	--	<	0.145	--	<	0.154	--	<	0.169
	Aroclor 1262	0.1	1	25	--	<	0.145	--	<	0.154	--	<	0.169
	General Chemistry	Part 375 SCOs ²			Result	Q	Result	Q	Result	Q	Result	Q	
		Unrestricted Use	Commercial Use	Industrial Use									
pH		--	--	--	--		8.64 at 20.7 °C	--		8.52 at 20.8 °C	--		8.35 at 20.6 °C
Reactivity: Cyanide		--	--	--	--	<	1.00	--	<	1.00	--	<	1.00
Reactivity: Sulfide		--	--	--	--	<	10.0	--	<	10.0	--	<	10.0
Ignitability (°C)	--	--	--	--		Not Ignitable	--		Not Ignitable	--		Not Ignitable	

Notes:

- 1 - All values presented in parts per million (ppm)
- 2 - NYSDEC Part 375 Soil Cleanup Objectives
- < Substance not identified above the minimum laboratory quantitation limit
- Sample not analyzed for referenced parameter

	Value exceeds Unrestricted Use SCO
	Value exceeds Commercial Use SCO
	Value exceeds Industrial Use SCO

Site Photographs
536 Central Avenue Spill Investigation



Photo No. 1 Tank Bed Area Facing Southwest



Photo No. 2 Tank Bed Area Facing Northwest



Photo No. 3 Geoprobe Setup at GP-06



Photo No. 4 GP-06 Soil Progression



Photo No. 5 Geoprobe Setup at GP-07



Photo No. 6 Typical Site Soil Progression (GP-07)



ENVIRONMENTAL • TRANSPORTATION • CIVIL

PROJECT	BORING: GP-01
City of Rochester	SHEET 1 OF 1
536 Central Avenue	JOB # 4229-57
UST Spill Investigation	CHECKED BY: GLA

CONTRACTOR: Trec Environmental	BORING LOCATION: SEE PLAN
DRILLER: J. Agar	GROUND SURFACE ELEVATION: DATUM:
JCL PERSONNEL: B. Seifert	START DATE: 12/13/2022 END DATE: 12/13/2022
TYPE OF DRILL RIG: 54LT Geoprobe	WATER LEVEL DATA
CASING SIZE AND TYPE: n/a	DATE TIME WATER CASING REMARKS
OVERBURDEN SAMPLING METHOD: Macro Core	
ROCK DRILLING METHOD: n/a	

DEPTH	SAMPLE DATA					SAMPLE DESCRIPTION	PID (ppm)
	NO.	BLOW /6"	RQD %	REC %	CHANGE		
1	1			50	0.5' - Topsoil	0.0	
2					cmf SAND + cmf GRAVEL		
3	2			75	2' - Brown mf SAND + mf GRAVEL little SILT	↓	
4							
5	3	N/A	N/A	100	Similar Soils	373.8	
6							
7	4			50	6.5' - Grey cmf SAND + GRAVEL	1070	
8							
9	5			50	8' - Grey f SAND + SILT little f GRAVEL strong degraded petroleum odor	1655	
10							
11	6			50	12.5' - Brown/grey mf SAND + SILT some CLAY (moist) strong odor	418.3	
12							
13	7			50	14' - Refusal @ 14.1' bgs	780.8	
14							
15	8			50		40.1	
16							
17	9			50			
18							
19	10			50			
20							
21	11			50			
22							
23	12			50			
24							
25	13			50			
26							

GENERAL NOTES

- 1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
- 2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.
 bgs: below ground surface TCR: total core recovery
 ppm: parts per million

BORING# GP-01



PROJECT

City of Rochester
536 Central Avenue
UST Spill Investigation

BORING: GP-02

SHEET 1 OF 1
JOB # 4229-57
CHECKED BY: GLA

CONTRACTOR: Trec Environmental **BORING LOCATION:** SEE PLAN

DRILLER: J. Agar **GROUND SURFACE ELEVATION:** **DATUM:**

JCL PERSONNEL: B. Seifert **START DATE:** 12/13/2022 **END DATE:** 12/13/2022

TYPE OF DRILL RIG: 54LT Geoprobe **WATER LEVEL DATA**

CASING SIZE AND TYPE: n/a **DATE TIME WATER CASING REMARKS**

OVERBURDEN SAMPLING METHOD: Macro Core

ROCK DRILLING METHOD: n/a

DEPTH	SAMPLE DATA					SAMPLE DESCRIPTION	PID (ppm)
	NO.	BLOW /6"	RQD %	REC %	CHANGE		
1	1			90	0.5'	Topsail Brown/tan mf SAND + SILT little mf GRAVEL w/ crushed brick/masonry material (FILL)	0.0
2							
3							
4	2	N/A	N/A	90		Similar Soils (FILL)	
5							
6							
7	3			90		Similar Soils (FILL)	
8							
9							
10	4			100	11'	Grey mf SAND + SILT some CLAY (moist)	3.0
11							
12							
13					12.5'	Similar soils, black staining + strong degraded petroleum odor (sampled)	1308
14							
15							
16						Refusal @ 15' bgs	55.8
17							
18							
19							
20							
21							
22							
23							
24							
25							

GENERAL NOTES

- 1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
- 2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.
bgs: below ground surface TCR: total core recovery
ppm: parts per million

BORING# GP-02



ENVIRONMENTAL • TRANSPORTATION • CIVIL

PROJECT	BORING: GP-03
City of Rochester	SHEET 1 OF 1
536 Central Avenue	JOB # 4229-57
UST Spill Investigation	CHECKED BY: GLA

CONTRACTOR: Trec Environmental	BORING LOCATION: SEE PLAN
DRILLER: J. Agar	GROUND SURFACE ELEVATION: DATUM:
JCL PERSONNEL: B. Seifert	START DATE: 12/13/2022 END DATE: 12/13/2022
TYPE OF DRILL RIG: 54LT Geoprobe	WATER LEVEL DATA
CASING SIZE AND TYPE: n/a	DATE TIME WATER CASING REMARKS
OVERBURDEN SAMPLING METHOD: Macro Core	
ROCK DRILLING METHOD: n/a	

DEPTH	SAMPLE DATA					SAMPLE DESCRIPTION	PID (ppm)
	NO.	BLOW /6"	RQD %	REC %	CHANGE		
1	1			50	0.5' - Topsoil	0.0	
2					Brown cmf SAND + cmf GRAVEL little crushed brick/masonry + ash/cinders throughout (FILL)		
3							
4							
5	2	N/A	N/A	70	5' - Similar soils (FILL)	0.3	
6					Brown mf SAND + SILT		
7							
8	3			95	Similar soils	0.4	
9					(sampled)		
10					(moist)		
11	4			100		0.2	
12							
13							
14					Refusal @ 14.1' bgs	0.2	
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

GENERAL NOTES

- 1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
- 2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.
 bgs: below ground surface TCR: total core recovery
 ppm: parts per million

BORING# GP-03



ENVIRONMENTAL • TRANSPORTATION • CIVIL

PROJECT		BORING: GP-04	
City of Rochester 536 Central Avenue UST Spill Investigation		SHEET 1 OF 1	
		JOB # 4229-57	
		CHECKED BY: GLA	
CONTRACTOR: Trec Environmental		BORING LOCATION: SEE PLAN	
DRILLER: J. Agar		GROUND SURFACE ELEVATION: DATUM:	
JCL PERSONNEL: B. Seifert		START DATE: 12/13/2022 END DATE: 12/13/2022	
TYPE OF DRILL RIG: 54LT Geoprobe		WATER LEVEL DATA	
CASING SIZE AND TYPE: n/a		DATE TIME WATER CASING REMARKS	
OVERBURDEN SAMPLING METHOD: Macro Core			
ROCK DRILLING METHOD: n/a			

DEPTH	SAMPLE DATA					SAMPLE DESCRIPTION	PID (ppm)
	NO.	BLOW /6"	RQD %	REC %	CHANGE		
1	1			75	0.5'	Topsoil Brown/black cmf SAND + cmf GRAVEL crushed brick/masonry + ash/cinders throughout (FILL)	0.0
2							
3							
4	2	N/A	N/A	50	4'	Brown mf SAND + SILT (moist) Similar soils, some CLAY (moist)	↓
5							
6							
7	3			50	(sampled)	0.2	
8							
9							
10	4			75	Similar soils	0.3	
11							
12							
13						0.0	
14						0.2	
15						0.1	
16						0.0	
17					Re-sat @ 15.4' bgs		
18							
19							
20							
21							
22							
23							
24							
25							

GENERAL NOTES

- 1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
- 2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.
bgs: below ground surface TCR: total core recovery
ppm: parts per million

BORING# GP-04



ENVIRONMENTAL • TRANSPORTATION • CIVIL

PROJECT		BORING: GP-05	
City of Rochester		SHEET 1 OF 1	
536 Central Avenue		JOB # 4229-57	
UST Spill Investigation		CHECKED BY: GLA	
CONTRACTOR: Trec Environmental	BORING LOCATION: SEE PLAN		
DRILLER: J. Agar	GROUND SURFACE ELEVATION:		DATUM:
JCL PERSONNEL: B. Seifert	START DATE: 12/13/2022	END DATE: 12/13/2022	
TYPE OF DRILL RIG: 54LT Geoprobe	WATER LEVEL DATA		
CASING SIZE AND TYPE: n/a	DATE	TIME	WATER CASING REMARKS
OVERBURDEN SAMPLING METHOD: Macro Core			
ROCK DRILLING METHOD: n/a			

DEPTH	SAMPLE DATA					SAMPLE DESCRIPTION	PID (ppm)
	NO.	BLOW /6"	RQD %	REC %	CHANGE		
1	1			50	0.5' - Topsoil	0.6	
2					Brown cmf SAND + mf GRAVEL (FILL)		
3	2			25	- Concrete slab		
4					Brown cmf SAND + mf GRAVEL crushed brick/masonry fragments throughout (FILL)		
5	3	N/A	N/A	20	Similar Soils (FILL)	0.3	
6							
7	4			100	8' - Brown cmf SAND + SILT some CLAY (moist)	0.5	
8							
9					Similar soils	0.0	
10							
11							
12							
13							
14							
15							
16							
17					Boring terminated @ 16' bgs, no refusal		
18							
19							
20							
21							
22							
23							
24							
25							

GENERAL NOTES

- 1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
- 2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.
 bgs: below ground surface TCR: total core recovery
 ppm: parts per million

BORING# GP-05



ENVIRONMENTAL • TRANSPORTATION • CIVIL

PROJECT	BORING: GP-06
City of Rochester	SHEET 1 OF 1
536 Central Avenue	JOB # 4229-57
UST Spill Investigation	CHECKED BY: GLA

CONTRACTOR: Trec Environmental	BORING LOCATION: SEE PLAN
DRILLER: J. Agar	GROUND SURFACE ELEVATION:
JCL PERSONNEL: B. Seifert	DATUM:
TYPE OF DRILL RIG: 54LT Geoprobe	START DATE: 12/13/2022
CASING SIZE AND TYPE: n/a	END DATE: 12/13/2022
OVERBURDEN SAMPLING METHOD: Macro Core	WATER LEVEL DATA
ROCK DRILLING METHOD: n/a	DATE TIME WATER CASING REMARKS

DEPTH	SAMPLE DATA					SAMPLE DESCRIPTION	PID (ppm)
	NO.	BLOW /6"	RQD %	REC %	CHANGE		
1	1			50	0.5' - Topsoil	0.0	
2					Brown cmf SAND + cmf GRAVEL, crushed brick/masonry fragments + ash/cinders throughout (Fill)		
3							
4	2	N/A	N/A	50	Similar soils (Fill)		
5							
6							
7	3	N/A	N/A	100	Similar soils (Fill)		
8							
9							
10	4			100	10' - Brown mf SAND + SILT		
11							
12					(sampled)		
13							
14							
15							
16					Reusal @ 15.4' bgs		
17							
18							
19							
20							
21							
22							
23							
24							
25							

GENERAL NOTES

- 1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
 - 2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.
- bgs: below ground surface TCR: total core recovery
ppm: parts per million

BORING# GP-06



ENVIRONMENTAL • TRANSPORTATION • CIVIL

PROJECT		BORING: GP-07	
City of Rochester		SHEET 1 OF 1	
536 Central Avenue		JOB # 4229-57	
UST Spill Investigation		CHECKED BY: GLA	
CONTRACTOR: Trec Environmental	BORING LOCATION: SEE PLAN		
DRILLER: J. Agar	GROUND SURFACE ELEVATION:		DATUM:
JCL PERSONNEL: B. Seifert	START DATE: 12/13/2022	END DATE: 12/13/2022	
TYPE OF DRILL RIG: 54LT Geoprobe	WATER LEVEL DATA		
CASING SIZE AND TYPE: n/a	DATE	TIME	WATER CASING REMARKS
OVERBURDEN SAMPLING METHOD: Macro Core			
ROCK DRILLING METHOD: n/a			

DEPTH	SAMPLE DATA					SAMPLE DESCRIPTION	PID (ppm)
	NO.	BLOW /6"	RQD %	REC %	CHANGE		
1					0.5' - Topsoil		0.0
2	1			100	Brown cmf SAND + GRAVEL (FILL)	↓	
3							
4					Similar soils (fill)		
5							
6	2			75			
7							
8		N/A	N/A		8' - Brown mf SAND + SILT, little mf GRAVEL		
9							
10	3			100			0.6
11							
12					Similar soils, black petroleum staining & odor		5.6
13					Similar soils (moist)		137.3
14	4			100			389.4
15							46.6
16					Refusal @ 15' bgs		
17							
18							
19							
20							
21							
22							
23							
24							
25							

GENERAL NOTES

- 1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
- 2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.
 bgs: below ground surface TCR: total core recovery
 ppm: parts per million

BORING# GP-07



PROJECT

City of Rochester
536 Central Avenue
UST Spill Investigation

BORING: GP-08

SHEET 1 OF 1

JOB # 4229-57

CHECKED BY: GLA

CONTRACTOR: Trec Environmental

BORING LOCATION: SEE PLAN

DRILLER: J. Agar

GROUND SURFACE ELEVATION:

DATUM:

JCL PERSONNEL: B. Seifert

START DATE: 12/13/2022

END DATE: 12/13/2022

TYPE OF DRILL RIG: 54LT Geoprobe

WATER LEVEL DATA

CASING SIZE AND TYPE: n/a

DATE TIME WATER CASING REMARKS

OVERBURDEN SAMPLING METHOD: Macro Core

ROCK DRILLING METHOD: n/a

DEPTH	SAMPLE DATA					SAMPLE DESCRIPTION	PID (ppm)
	NO.	BLOW /6"	RQD %	REC %	CHANGE		
1	1			75	0.5' Topsoil	D.O	
2					Brown cmf SAND + cmf GRAVEL (Fill)		
3	2			75	Similar soils (fill)		
4							
5	3	N/A	N/A	75	7' Brown mf SAND + SILT little mf GRAVEL		
6					Similar soils		
7	4			100	Similar soils		
8					Similar soils (moist)		
9					(Sampled)		
10							
11					Refusal @ 15.6' bgs		
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

GENERAL NOTES

- 1) Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
- 2) PID readings were taken directly on exposed soil in sampler, immediately following retrieval from boring.
bgs: below ground surface TCR: total core recovery
ppm: parts per million

BORING# GP-08



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Lu Engineers, Inc.

For Lab Project ID

225970

Referencing

Central Ave

Prepared

Friday, December 30, 2022

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Emily Farmer

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Friday, December 30, 2022



Lab Project ID: 225970

Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-01

Lab Sample ID: 225970-01

Date Sampled: 12/13/2022 13:00

Matrix: Soil

Date Received 12/15/2022

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1,1-Trichloroethane	< 9.38	ug/Kg		12/19/2022 16:30
1,1,2,2-Tetrachloroethane	< 9.38	ug/Kg		12/19/2022 16:30
1,1,2-Trichloroethane	< 9.38	ug/Kg		12/19/2022 16:30
1,1-Dichloroethane	< 9.38	ug/Kg		12/19/2022 16:30
1,1-Dichloroethene	< 9.38	ug/Kg		12/19/2022 16:30
1,2,3-Trichlorobenzene	< 23.4	ug/Kg		12/19/2022 16:30
1,2,4-Trichlorobenzene	< 23.4	ug/Kg		12/19/2022 16:30
1,2-Dibromo-3-Chloropropane	< 46.9	ug/Kg		12/19/2022 16:30
1,2-Dibromoethane	< 9.38	ug/Kg		12/19/2022 16:30
1,2-Dichlorobenzene	< 9.38	ug/Kg		12/19/2022 16:30
1,2-Dichloroethane	< 9.38	ug/Kg		12/19/2022 16:30
1,2-Dichloropropane	< 9.38	ug/Kg		12/19/2022 16:30
1,3-Dichlorobenzene	< 9.38	ug/Kg		12/19/2022 16:30
1,4-Dichlorobenzene	< 9.38	ug/Kg		12/19/2022 16:30
1,4-Dioxane	< 46.9	ug/Kg		12/19/2022 16:30
2-Butanone	< 46.9	ug/Kg		12/19/2022 16:30
2-Hexanone	< 23.4	ug/Kg		12/19/2022 16:30
4-Methyl-2-pentanone	< 23.4	ug/Kg		12/19/2022 16:30
Acetone	< 46.9	ug/Kg		12/19/2022 16:30
Benzene	< 9.38	ug/Kg		12/19/2022 16:30
Bromochloromethane	< 23.4	ug/Kg		12/19/2022 16:30
Bromodichloromethane	< 9.38	ug/Kg		12/19/2022 16:30
Bromoform	< 23.4	ug/Kg		12/19/2022 16:30
Bromomethane	< 9.38	ug/Kg		12/19/2022 16:30
Carbon disulfide	< 9.38	ug/Kg		12/19/2022 16:30
Carbon Tetrachloride	< 9.38	ug/Kg		12/19/2022 16:30
Chlorobenzene	< 9.38	ug/Kg		12/19/2022 16:30
Chloroethane	< 9.38	ug/Kg		12/19/2022 16:30

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-01

Lab Sample ID: 225970-01

Date Sampled: 12/13/2022 13:00

Matrix: Soil

Date Received 12/15/2022

Chloroform	< 9.38	ug/Kg	12/19/2022 16:30
Chloromethane	< 9.38	ug/Kg	12/19/2022 16:30
cis-1,2-Dichloroethene	< 9.38	ug/Kg	12/19/2022 16:30
cis-1,3-Dichloropropene	< 9.38	ug/Kg	12/19/2022 16:30
Cyclohexane	< 46.9	ug/Kg	12/19/2022 16:30
Dibromochloromethane	< 9.38	ug/Kg	12/19/2022 16:30
Dichlorodifluoromethane	< 9.38	ug/Kg	12/19/2022 16:30
Ethylbenzene	< 9.38	ug/Kg	12/19/2022 16:30
Freon 113	< 9.38	ug/Kg	12/19/2022 16:30
Isopropylbenzene	< 9.38	ug/Kg	12/19/2022 16:30
m,p-Xylene	16.3	ug/Kg	12/19/2022 16:30
Methyl acetate	< 9.38	ug/Kg	12/19/2022 16:30
Methyl tert-butyl Ether	< 9.38	ug/Kg	12/19/2022 16:30
Methylcyclohexane	< 9.38	ug/Kg	12/19/2022 16:30
Methylene chloride	< 23.4	ug/Kg	12/19/2022 16:30
o-Xylene	< 9.38	ug/Kg	12/19/2022 16:30
Styrene	< 23.4	ug/Kg	12/19/2022 16:30
Tetrachloroethene	< 9.38	ug/Kg	12/19/2022 16:30
Toluene	< 9.38	ug/Kg	12/19/2022 16:30
trans-1,2-Dichloroethene	< 9.38	ug/Kg	12/19/2022 16:30
trans-1,3-Dichloropropene	< 9.38	ug/Kg	12/19/2022 16:30
Trichloroethene	< 9.38	ug/Kg	12/19/2022 16:30
Trichlorofluoromethane	< 9.38	ug/Kg	12/19/2022 16:30
Vinyl chloride	< 9.38	ug/Kg	12/19/2022 16:30



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-01

Lab Sample ID: 225970-01

Date Sampled: 12/13/2022 13:00

Matrix: Soil

Date Received 12/15/2022

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	105	74.7 - 140		12/19/2022 16:30
4-Bromofluorobenzene	94.4	68 - 130		12/19/2022 16:30
Pentafluorobenzene	99.4	70.3 - 140		12/19/2022 16:30
Toluene-D8	100	69 - 138		12/19/2022 16:30

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z14155.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-Comp-01

Lab Sample ID: 225970-02

Date Sampled: 12/13/2022 13:20

Matrix: Soil

Date Received 12/15/2022

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-T	<340	ug/Kg		12/20/2022
2,4,5-TP (Silvex)	<340	ug/Kg		12/20/2022
2,4-D	<1360	ug/Kg		12/20/2022

Method Reference(s): EPA 8321B

Subcontractor ELAP ID: 10709

Ignitability

Analyte	Result	Units	Qualifier	Date Analyzed
Ignitability	No Burn	mm / sec		12/28/2022

Method Reference(s): EPA 1030

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.00816	mg/Kg		12/19/2022 16:49

Method Reference(s): EPA 7471B

Preparation Date: 12/19/2022

Data File: Hg221219B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.527	mg/Kg		12/22/2022
Barium	22.7	mg/Kg		12/22/2022
Cadmium	0.580	mg/Kg		12/22/2022
Chromium	6.90	mg/Kg		12/22/2022
Lead	3.80	mg/Kg		12/22/2022
Selenium	< 1.05	mg/Kg		12/22/2022
Silver	< 0.527	mg/Kg		12/22/2022

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-Comp-01

Lab Sample ID: 225970-02

Date Sampled: 12/13/2022 13:20

Matrix: Soil

Date Received: 12/15/2022

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/20/2022
Subcontractor ELAP ID: 10709

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.145	mg/Kg		12/21/2022 21:34
PCB-1221	< 0.145	mg/Kg		12/21/2022 21:34
PCB-1232	< 0.145	mg/Kg		12/21/2022 21:34
PCB-1242	< 0.145	mg/Kg		12/21/2022 21:34
PCB-1248	< 0.145	mg/Kg		12/21/2022 21:34
PCB-1254	< 0.145	mg/Kg		12/21/2022 21:34
PCB-1260	< 0.145	mg/Kg		12/21/2022 21:34
PCB-1262	< 0.145	mg/Kg		12/21/2022 21:34
PCB-1268	< 0.145	mg/Kg		12/21/2022 21:34

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	69.5	12.7 - 101		12/21/2022 21:34

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 12/21/2022

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.64 @ 20.7 C	S.U.		12/28/2022 13:13

Method Reference(s): EPA 9045D

Reactive Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Cyanide	<1.0	mg/Kg		12/20/2022

Method Reference(s): EPA 7.3.3.2
Subcontractor ELAP ID: 10709

*ELAP does not offer this test for approval as part of their laboratory certification program.
This sample has been reported as received.*

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-Comp-01

Lab Sample ID: 225970-02

Date Sampled: 12/13/2022 13:20

Matrix: Soil

Date Received 12/15/2022

Reactive Sulfide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Sulfide	<10	mg/Kg		12/20/2022

Method Reference(s): EPA 7.3.4.2

Subcontractor ELAP ID: 10709

ELAP does not offer this test for approval as part of their laboratory certification program.

This sample has been reported as received.

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 307	ug/Kg		12/21/2022 13:51
1,2,4,5-Tetrachlorobenzene	< 307	ug/Kg		12/21/2022 13:51
1,2,4-Trichlorobenzene	< 307	ug/Kg		12/21/2022 13:51
1,2-Dichlorobenzene	< 307	ug/Kg		12/21/2022 13:51
1,3-Dichlorobenzene	< 307	ug/Kg		12/21/2022 13:51
1,4-Dichlorobenzene	< 307	ug/Kg		12/21/2022 13:51
2,2-Oxybis (1-chloropropane)	< 307	ug/Kg		12/21/2022 13:51
2,3,4,6-Tetrachlorophenol	< 307	ug/Kg		12/21/2022 13:51
2,4,5-Trichlorophenol	< 307	ug/Kg		12/21/2022 13:51
2,4,6-Trichlorophenol	< 307	ug/Kg		12/21/2022 13:51
2,4-Dichlorophenol	< 307	ug/Kg		12/21/2022 13:51
2,4-Dimethylphenol	< 307	ug/Kg		12/21/2022 13:51
2,4-Dinitrophenol	< 1230	ug/Kg		12/21/2022 13:51
2,4-Dinitrotoluene	< 307	ug/Kg		12/21/2022 13:51
2,6-Dinitrotoluene	< 307	ug/Kg		12/21/2022 13:51
2-Chloronaphthalene	< 307	ug/Kg		12/21/2022 13:51
2-Chlorophenol	< 307	ug/Kg		12/21/2022 13:51
2-Methylnaphthalene	< 307	ug/Kg		12/21/2022 13:51
2-Methylphenol	< 307	ug/Kg		12/21/2022 13:51
2-Nitroaniline	< 307	ug/Kg		12/21/2022 13:51
2-Nitrophenol	< 307	ug/Kg		12/21/2022 13:51

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-Comp-01

Lab Sample ID: 225970-02

Date Sampled: 12/13/2022 13:20

Matrix: Soil

Date Received 12/15/2022

3&4-Methylphenol	< 307	ug/Kg	12/21/2022 13:51
3,3'-Dichlorobenzidine	< 307	ug/Kg	12/21/2022 13:51
3-Nitroaniline	< 307	ug/Kg	12/21/2022 13:51
4,6-Dinitro-2-methylphenol	< 411	ug/Kg	12/21/2022 13:51
4-Bromophenyl phenyl ether	< 307	ug/Kg	12/21/2022 13:51
4-Chloro-3-methylphenol	< 307	ug/Kg	12/21/2022 13:51
4-Chloroaniline	< 307	ug/Kg	12/21/2022 13:51
4-Chlorophenyl phenyl ether	< 307	ug/Kg	12/21/2022 13:51
4-Nitroaniline	< 307	ug/Kg	12/21/2022 13:51
4-Nitrophenol	< 307	ug/Kg	12/21/2022 13:51
Acenaphthene	< 307	ug/Kg	12/21/2022 13:51
Acenaphthylene	< 307	ug/Kg	12/21/2022 13:51
Acetophenone	< 307	ug/Kg	12/21/2022 13:51
Anthracene	< 307	ug/Kg	12/21/2022 13:51
Atrazine	< 307	ug/Kg	12/21/2022 13:51
Benzaldehyde	< 307	ug/Kg	12/21/2022 13:51
Benzo (a) anthracene	< 307	ug/Kg	12/21/2022 13:51
Benzo (a) pyrene	< 307	ug/Kg	12/21/2022 13:51
Benzo (b) fluoranthene	< 307	ug/Kg	12/21/2022 13:51
Benzo (g,h,i) perylene	< 307	ug/Kg	12/21/2022 13:51
Benzo (k) fluoranthene	< 307	ug/Kg	12/21/2022 13:51
Bis (2-chloroethoxy) methane	< 307	ug/Kg	12/21/2022 13:51
Bis (2-chloroethyl) ether	< 307	ug/Kg	12/21/2022 13:51
Bis (2-ethylhexyl) phthalate	< 307	ug/Kg	12/21/2022 13:51
Butylbenzylphthalate	< 307	ug/Kg	12/21/2022 13:51
Caprolactam	< 307	ug/Kg	12/21/2022 13:51
Carbazole	< 307	ug/Kg	12/21/2022 13:51
Chrysene	< 307	ug/Kg	12/21/2022 13:51
Dibenz (a,h) anthracene	< 307	ug/Kg	12/21/2022 13:51
Dibenzofuran	< 307	ug/Kg	12/21/2022 13:51

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-Comp-01

Lab Sample ID: 225970-02

Date Sampled: 12/13/2022 13:20

Matrix: Soil

Date Received 12/15/2022

Diethyl phthalate	< 307	ug/Kg	12/21/2022	13:51
Dimethyl phthalate	< 307	ug/Kg	12/21/2022	13:51
Di-n-butyl phthalate	< 307	ug/Kg	12/21/2022	13:51
Di-n-octylphthalate	< 307	ug/Kg	12/21/2022	13:51
Fluoranthene	< 307	ug/Kg	12/21/2022	13:51
Fluorene	< 307	ug/Kg	12/21/2022	13:51
Hexachlorobenzene	< 307	ug/Kg	12/21/2022	13:51
Hexachlorobutadiene	< 307	ug/Kg	12/21/2022	13:51
Hexachlorocyclopentadiene	< 1230	ug/Kg	12/21/2022	13:51
Hexachloroethane	< 307	ug/Kg	12/21/2022	13:51
Indeno (1,2,3-cd) pyrene	< 307	ug/Kg	12/21/2022	13:51
Isophorone	< 307	ug/Kg	12/21/2022	13:51
Naphthalene	< 307	ug/Kg	12/21/2022	13:51
Nitrobenzene	< 307	ug/Kg	12/21/2022	13:51
N-Nitroso-di-n-propylamine	< 307	ug/Kg	12/21/2022	13:51
N-Nitrosodiphenylamine	< 307	ug/Kg	12/21/2022	13:51
Pentachlorophenol	< 614	ug/Kg	12/21/2022	13:51
Phenanthrene	< 307	ug/Kg	12/21/2022	13:51
Phenol	< 307	ug/Kg	12/21/2022	13:51
Pyrene	< 307	ug/Kg	12/21/2022	13:51

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2,4,6-Tribromophenol	50.9	35.4 - 92.4		12/21/2022 13:51
2-Fluorobiphenyl	61.4	39.6 - 84.4		12/21/2022 13:51
2-Fluorophenol	53.4	35.5 - 78.9		12/21/2022 13:51
Nitrobenzene-d5	54.4	36.5 - 78.2		12/21/2022 13:51
Phenol-d5	62.2	37.1 - 78.3		12/21/2022 13:51
Terphenyl-d14	64.4	42.3 - 103		12/21/2022 13:51

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/20/2022
Data File: B65682.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-Comp-01

Lab Sample ID: 225970-02

Date Sampled: 12/13/2022 13:20

Matrix: Soil

Date Received 12/15/2022

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	<3.7	ug/Kg		12/21/2022
4,4-DDE	<3.7	ug/Kg		12/21/2022
4,4-DDT	<3.7	ug/Kg		12/21/2022
Aldrin	<1.9	ug/Kg		12/21/2022
alpha-BHC	<1.9	ug/Kg		12/21/2022
beta-BHC	<1.9	ug/Kg		12/21/2022
Chlordane	<190	ug/Kg		12/21/2022
cis-Chlordane	<1.9	ug/Kg		12/21/2022
delta-BHC	<1.9	ug/Kg	M	12/21/2022
Dieldrin	<3.7	ug/Kg		12/21/2022
Endosulfan I	<1.9	ug/Kg		12/21/2022
Endosulfan II	<3.7	ug/Kg		12/21/2022
Endosulfan Sulfate	<3.7	ug/Kg		12/21/2022
Endrin	<3.7	ug/Kg		12/21/2022
Endrin Aldehyde	<3.7	ug/Kg		12/21/2022
Endrin Ketone	<3.7	ug/Kg		12/21/2022
gamma-BHC (Lindane)	<1.9	ug/Kg		12/21/2022
Heptachlor	<1.9	ug/Kg		12/21/2022
Heptachlor Epoxide	<2.3	ug/Kg		12/21/2022
Methoxychlor	<19	ug/Kg		12/21/2022
Toxaphene	<190	ug/Kg		12/21/2022
trans-Chlordane	<1.9	ug/Kg		12/21/2022

Method Reference(s): EPA 8081B

Subcontractor ELAP ID: 10709



Lab Project ID: 225970

Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-02

Lab Sample ID: 225970-03

Date Sampled: 12/13/2022 13:10

Matrix: Soil

Date Received 12/15/2022

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 9.86	ug/Kg		12/19/2022 16:50
1,1,2,2-Tetrachloroethane	< 9.86	ug/Kg		12/19/2022 16:50
1,1,2-Trichloroethane	< 9.86	ug/Kg		12/19/2022 16:50
1,1-Dichloroethane	< 9.86	ug/Kg		12/19/2022 16:50
1,1-Dichloroethene	< 9.86	ug/Kg		12/19/2022 16:50
1,2,3-Trichlorobenzene	< 24.7	ug/Kg		12/19/2022 16:50
1,2,4-Trichlorobenzene	< 24.7	ug/Kg		12/19/2022 16:50
1,2-Dibromo-3-Chloropropane	< 49.3	ug/Kg		12/19/2022 16:50
1,2-Dibromoethane	< 9.86	ug/Kg		12/19/2022 16:50
1,2-Dichlorobenzene	< 9.86	ug/Kg		12/19/2022 16:50
1,2-Dichloroethane	< 9.86	ug/Kg		12/19/2022 16:50
1,2-Dichloropropane	< 9.86	ug/Kg		12/19/2022 16:50
1,3-Dichlorobenzene	< 9.86	ug/Kg		12/19/2022 16:50
1,4-Dichlorobenzene	< 9.86	ug/Kg		12/19/2022 16:50
1,4-Dioxane	< 49.3	ug/Kg		12/19/2022 16:50
2-Butanone	< 49.3	ug/Kg		12/19/2022 16:50
2-Hexanone	< 24.7	ug/Kg		12/19/2022 16:50
4-Methyl-2-pentanone	< 24.7	ug/Kg		12/19/2022 16:50
Acetone	< 49.3	ug/Kg		12/19/2022 16:50
Benzene	< 9.86	ug/Kg		12/19/2022 16:50
Bromochloromethane	< 24.7	ug/Kg		12/19/2022 16:50
Bromodichloromethane	< 9.86	ug/Kg		12/19/2022 16:50
Bromoform	< 24.7	ug/Kg		12/19/2022 16:50
Bromomethane	< 9.86	ug/Kg		12/19/2022 16:50
Carbon disulfide	< 9.86	ug/Kg		12/19/2022 16:50
Carbon Tetrachloride	< 9.86	ug/Kg		12/19/2022 16:50
Chlorobenzene	< 9.86	ug/Kg		12/19/2022 16:50
Chloroethane	< 9.86	ug/Kg		12/19/2022 16:50

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Lab Project ID: 225970

Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-02

Lab Sample ID: 225970-03

Date Sampled: 12/13/2022 13:10

Matrix: Soil

Date Received 12/15/2022

Chloroform	< 9.86	ug/Kg	12/19/2022 16:50
Chloromethane	< 9.86	ug/Kg	12/19/2022 16:50
cis-1,2-Dichloroethene	< 9.86	ug/Kg	12/19/2022 16:50
cis-1,3-Dichloropropene	< 9.86	ug/Kg	12/19/2022 16:50
Cyclohexane	< 49.3	ug/Kg	12/19/2022 16:50
Dibromochloromethane	< 9.86	ug/Kg	12/19/2022 16:50
Dichlorodifluoromethane	< 9.86	ug/Kg	12/19/2022 16:50
Ethylbenzene	54.7	ug/Kg	12/19/2022 16:50
Freon 113	< 9.86	ug/Kg	12/19/2022 16:50
Isopropylbenzene	< 9.86	ug/Kg	12/19/2022 16:50
m,p-Xylene	167	ug/Kg	12/19/2022 16:50
Methyl acetate	< 9.86	ug/Kg	12/19/2022 16:50
Methyl tert-butyl Ether	< 9.86	ug/Kg	12/19/2022 16:50
Methylcyclohexane	< 9.86	ug/Kg	12/19/2022 16:50
Methylene chloride	< 24.7	ug/Kg	12/19/2022 16:50
o-Xylene	12.4	ug/Kg	12/19/2022 16:50
Styrene	< 24.7	ug/Kg	12/19/2022 16:50
Tetrachloroethene	< 9.86	ug/Kg	12/19/2022 16:50
Toluene	< 9.86	ug/Kg	12/19/2022 16:50
trans-1,2-Dichloroethene	< 9.86	ug/Kg	12/19/2022 16:50
trans-1,3-Dichloropropene	< 9.86	ug/Kg	12/19/2022 16:50
Trichloroethene	< 9.86	ug/Kg	12/19/2022 16:50
Trichlorofluoromethane	< 9.86	ug/Kg	12/19/2022 16:50
Vinyl chloride	< 9.86	ug/Kg	12/19/2022 16:50

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-02

Lab Sample ID: 225970-03

Date Sampled: 12/13/2022 13:10

Matrix: Soil

Date Received 12/15/2022

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	97.9	74.7 - 140		12/19/2022 16:50
4-Bromofluorobenzene	96.4	68 - 130		12/19/2022 16:50
Pentafluorobenzene	98.5	70.3 - 140		12/19/2022 16:50
Toluene-D8	98.3	69 - 138		12/19/2022 16:50

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z14156.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-Comp-02

Lab Sample ID: 225970-04

Date Sampled: 12/13/2022 13:25

Matrix: Soil

Date Received: 12/15/2022

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-T	<331	ug/Kg		12/20/2022
2,4,5-TP (Silvex)	<331	ug/Kg		12/20/2022
2,4-D	<1330	ug/Kg		12/20/2022

Method Reference(s): EPA 8321B

Subcontractor ELAP ID: 10709

Ignitability

Analyte	Result	Units	Qualifier	Date Analyzed
Ignitability	No Burn	mm / sec		12/28/2022

Method Reference(s): EPA 1030

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.0352	mg/Kg		12/19/2022 16:51

Method Reference(s): EPA 7471B

Preparation Date: 12/19/2022

Data File: Hg221219B

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	2.67	mg/Kg		12/22/2022
Barium	65.4	mg/Kg		12/22/2022
Cadmium	0.942	mg/Kg		12/22/2022
Chromium	11.3	mg/Kg		12/22/2022
Lead	11.0	mg/Kg		12/22/2022
Selenium	< 1.05	mg/Kg		12/22/2022
Silver	< 0.523	mg/Kg		12/22/2022

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-Comp-02

Lab Sample ID: 225970-04

Date Sampled: 12/13/2022 13:25

Matrix: Soil

Date Received: 12/15/2022

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/20/2022
Subcontractor ELAP ID: 10709

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.154	mg/Kg		12/21/2022 21:57
PCB-1221	< 0.154	mg/Kg		12/21/2022 21:57
PCB-1232	< 0.154	mg/Kg		12/21/2022 21:57
PCB-1242	< 0.154	mg/Kg		12/21/2022 21:57
PCB-1248	< 0.154	mg/Kg		12/21/2022 21:57
PCB-1254	< 0.154	mg/Kg		12/21/2022 21:57
PCB-1260	< 0.154	mg/Kg		12/21/2022 21:57
PCB-1262	< 0.154	mg/Kg		12/21/2022 21:57
PCB-1268	< 0.154	mg/Kg		12/21/2022 21:57

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	62.2	12.7 - 101		12/21/2022 21:57

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 12/21/2022

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.52 @ 20.8 C	S.U.		12/28/2022 13:18

Method Reference(s): EPA 9045D

Reactive Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Cyanide	<1.0	mg/Kg		12/20/2022

Method Reference(s): EPA 7.3.3.2
Subcontractor ELAP ID: 10709

*ELAP does not offer this test for approval as part of their laboratory certification program.
This sample has been reported as received.*

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-Comp-02

Lab Sample ID: 225970-04

Date Sampled: 12/13/2022 13:25

Matrix: Soil

Date Received 12/15/2022

Reactive Sulfide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Sulfide	<10	mg/Kg		12/20/2022

Method Reference(s): EPA 7.3.4.2

Subcontractor ELAP ID: 10709

ELAP does not offer this test for approval as part of their laboratory certification program.

This sample has been reported as received.

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 291	ug/Kg		12/21/2022 14:20
1,2,4,5-Tetrachlorobenzene	< 291	ug/Kg		12/21/2022 14:20
1,2,4-Trichlorobenzene	< 291	ug/Kg		12/21/2022 14:20
1,2-Dichlorobenzene	< 291	ug/Kg		12/21/2022 14:20
1,3-Dichlorobenzene	< 291	ug/Kg		12/21/2022 14:20
1,4-Dichlorobenzene	< 291	ug/Kg		12/21/2022 14:20
2,2-Oxybis (1-chloropropane)	< 291	ug/Kg		12/21/2022 14:20
2,3,4,6-Tetrachlorophenol	< 291	ug/Kg		12/21/2022 14:20
2,4,5-Trichlorophenol	< 291	ug/Kg		12/21/2022 14:20
2,4,6-Trichlorophenol	< 291	ug/Kg		12/21/2022 14:20
2,4-Dichlorophenol	< 291	ug/Kg		12/21/2022 14:20
2,4-Dimethylphenol	< 291	ug/Kg		12/21/2022 14:20
2,4-Dinitrophenol	< 1160	ug/Kg		12/21/2022 14:20
2,4-Dinitrotoluene	< 291	ug/Kg		12/21/2022 14:20
2,6-Dinitrotoluene	< 291	ug/Kg		12/21/2022 14:20
2-Chloronaphthalene	< 291	ug/Kg		12/21/2022 14:20
2-Chlorophenol	< 291	ug/Kg		12/21/2022 14:20
2-Methylnaphthalene	< 291	ug/Kg		12/21/2022 14:20
2-Methylphenol	< 291	ug/Kg		12/21/2022 14:20
2-Nitroaniline	< 291	ug/Kg		12/21/2022 14:20
2-Nitrophenol	< 291	ug/Kg		12/21/2022 14:20

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Lab Project ID: 225970

Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-Comp-02

Lab Sample ID: 225970-04

Date Sampled: 12/13/2022 13:25

Matrix: Soil

Date Received 12/15/2022

3&4-Methylphenol	< 291	ug/Kg	12/21/2022 14:20
3,3'-Dichlorobenzidine	< 291	ug/Kg	12/21/2022 14:20
3-Nitroaniline	< 291	ug/Kg	12/21/2022 14:20
4,6-Dinitro-2-methylphenol	< 390	ug/Kg	12/21/2022 14:20
4-Bromophenyl phenyl ether	< 291	ug/Kg	12/21/2022 14:20
4-Chloro-3-methylphenol	< 291	ug/Kg	12/21/2022 14:20
4-Chloroaniline	< 291	ug/Kg	12/21/2022 14:20
4-Chlorophenyl phenyl ether	< 291	ug/Kg	12/21/2022 14:20
4-Nitroaniline	< 291	ug/Kg	12/21/2022 14:20
4-Nitrophenol	< 291	ug/Kg	12/21/2022 14:20
Acenaphthene	< 291	ug/Kg	12/21/2022 14:20
Acenaphthylene	< 291	ug/Kg	12/21/2022 14:20
Acetophenone	< 291	ug/Kg	12/21/2022 14:20
Anthracene	< 291	ug/Kg	12/21/2022 14:20
Atrazine	< 291	ug/Kg	12/21/2022 14:20
Benzaldehyde	< 291	ug/Kg	12/21/2022 14:20
Benzo (a) anthracene	< 291	ug/Kg	12/21/2022 14:20
Benzo (a) pyrene	< 291	ug/Kg	12/21/2022 14:20
Benzo (b) fluoranthene	< 291	ug/Kg	12/21/2022 14:20
Benzo (g,h,i) perylene	< 291	ug/Kg	12/21/2022 14:20
Benzo (k) fluoranthene	< 291	ug/Kg	12/21/2022 14:20
Bis (2-chloroethoxy) methane	< 291	ug/Kg	12/21/2022 14:20
Bis (2-chloroethyl) ether	< 291	ug/Kg	12/21/2022 14:20
Bis (2-ethylhexyl) phthalate	< 291	ug/Kg	12/21/2022 14:20
Butylbenzylphthalate	702	ug/Kg	12/21/2022 14:20
Caprolactam	< 291	ug/Kg	12/21/2022 14:20
Carbazole	< 291	ug/Kg	12/21/2022 14:20
Chrysene	< 291	ug/Kg	12/21/2022 14:20
Dibenz (a,h) anthracene	< 291	ug/Kg	12/21/2022 14:20
Dibenzofuran	< 291	ug/Kg	12/21/2022 14:20

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Lab Project ID: 225970

Client: **Lu Engineers, Inc.**

Project Reference: Central Ave

Sample Identifier: Fill-Comp-02

Lab Sample ID: 225970-04

Date Sampled: 12/13/2022 13:25

Matrix: Soil

Date Received 12/15/2022

Diethyl phthalate	< 291	ug/Kg	12/21/2022 14:20
Dimethyl phthalate	< 291	ug/Kg	12/21/2022 14:20
Di-n-butyl phthalate	< 291	ug/Kg	12/21/2022 14:20
Di-n-octylphthalate	< 291	ug/Kg	12/21/2022 14:20
Fluoranthene	< 291	ug/Kg	12/21/2022 14:20
Fluorene	< 291	ug/Kg	12/21/2022 14:20
Hexachlorobenzene	< 291	ug/Kg	12/21/2022 14:20
Hexachlorobutadiene	< 291	ug/Kg	12/21/2022 14:20
Hexachlorocyclopentadiene	< 1160	ug/Kg	12/21/2022 14:20
Hexachloroethane	< 291	ug/Kg	12/21/2022 14:20
Indeno (1,2,3-cd) pyrene	< 291	ug/Kg	12/21/2022 14:20
Isophorone	< 291	ug/Kg	12/21/2022 14:20
Naphthalene	< 291	ug/Kg	12/21/2022 14:20
Nitrobenzene	< 291	ug/Kg	12/21/2022 14:20
N-Nitroso-di-n-propylamine	< 291	ug/Kg	12/21/2022 14:20
N-Nitrosodiphenylamine	< 291	ug/Kg	12/21/2022 14:20
Pentachlorophenol	< 582	ug/Kg	12/21/2022 14:20
Phenanthrene	< 291	ug/Kg	12/21/2022 14:20
Phenol	< 291	ug/Kg	12/21/2022 14:20
Pyrene	< 291	ug/Kg	12/21/2022 14:20

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2,4,6-Tribromophenol	65.6	35.4 - 92.4		12/21/2022 14:20
2-Fluorobiphenyl	63.6	39.6 - 84.4		12/21/2022 14:20
2-Fluorophenol	57.2	35.5 - 78.9		12/21/2022 14:20
Nitrobenzene-d5	60.8	36.5 - 78.2		12/21/2022 14:20
Phenol-d5	64.7	37.1 - 78.3		12/21/2022 14:20
Terphenyl-d14	64.9	42.3 - 103		12/21/2022 14:20

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/20/2022
Data File: B65683.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-Comp-02

Lab Sample ID: 225970-04

Date Sampled: 12/13/2022 13:25

Matrix: Soil

Date Received 12/15/2022

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	<3.6	ug/Kg		12/21/2022
4,4-DDE	<3.6	ug/Kg		12/21/2022
4,4-DDT	<3.6	ug/Kg		12/21/2022
Aldrin	<1.9	ug/Kg		12/21/2022
alpha-BHC	<1.9	ug/Kg		12/21/2022
beta-BHC	<1.9	ug/Kg		12/21/2022
Chlordane	<190	ug/Kg		12/21/2022
cis-Chlordane	<1.9	ug/Kg		12/21/2022
delta-BHC	<1.9	ug/Kg		12/21/2022
Dieldrin	<3.6	ug/Kg		12/21/2022
Endosulfan I	<1.9	ug/Kg		12/21/2022
Endosulfan II	<3.6	ug/Kg		12/21/2022
Endosulfan Sulfate	<3.6	ug/Kg		12/21/2022
Endrin	<3.6	ug/Kg		12/21/2022
Endrin Aldehyde	<3.6	ug/Kg		12/21/2022
Endrin Ketone	<3.6	ug/Kg		12/21/2022
gamma-BHC (Lindane)	<1.9	ug/Kg		12/21/2022
Heptachlor	<1.9	ug/Kg		12/21/2022
Heptachlor Epoxide	<2.2	ug/Kg		12/21/2022
Methoxychlor	<19	ug/Kg		12/21/2022
Toxaphene	<190	ug/Kg		12/21/2022
trans-Chlordane	<1.9	ug/Kg		12/21/2022

Method Reference(s): EPA 8081B

Subcontractor ELAP ID: 10709

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Client: Lu Engineers, Inc.
Project Reference: Central Ave

Sample Identifier: Fill-03

Lab Sample ID: 225970-05

Date Sampled: 12/13/2022 13:05

Matrix: Soil

Date Received 12/15/2022

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 6.84	ug/Kg		12/19/2022 17:09
1,1,2,2-Tetrachloroethane	< 6.84	ug/Kg		12/19/2022 17:09
1,1,2-Trichloroethane	< 6.84	ug/Kg		12/19/2022 17:09
1,1-Dichloroethane	< 6.84	ug/Kg		12/19/2022 17:09
1,1-Dichloroethene	< 6.84	ug/Kg		12/19/2022 17:09
1,2,3-Trichlorobenzene	< 17.1	ug/Kg		12/19/2022 17:09
1,2,4-Trichlorobenzene	< 17.1	ug/Kg		12/19/2022 17:09
1,2-Dibromo-3-Chloropropane	< 34.2	ug/Kg		12/19/2022 17:09
1,2-Dibromoethane	< 6.84	ug/Kg		12/19/2022 17:09
1,2-Dichlorobenzene	< 6.84	ug/Kg		12/19/2022 17:09
1,2-Dichloroethane	< 6.84	ug/Kg		12/19/2022 17:09
1,2-Dichloropropane	< 6.84	ug/Kg		12/19/2022 17:09
1,3-Dichlorobenzene	< 6.84	ug/Kg		12/19/2022 17:09
1,4-Dichlorobenzene	< 6.84	ug/Kg		12/19/2022 17:09
1,4-Dioxane	< 34.2	ug/Kg		12/19/2022 17:09
2-Butanone	< 34.2	ug/Kg		12/19/2022 17:09
2-Hexanone	< 17.1	ug/Kg		12/19/2022 17:09
4-Methyl-2-pentanone	< 17.1	ug/Kg		12/19/2022 17:09
Acetone	< 34.2	ug/Kg		12/19/2022 17:09
Benzene	< 6.84	ug/Kg		12/19/2022 17:09
Bromochloromethane	< 17.1	ug/Kg		12/19/2022 17:09
Bromodichloromethane	< 6.84	ug/Kg		12/19/2022 17:09
Bromoform	< 17.1	ug/Kg		12/19/2022 17:09
Bromomethane	< 6.84	ug/Kg		12/19/2022 17:09
Carbon disulfide	< 6.84	ug/Kg		12/19/2022 17:09
Carbon Tetrachloride	< 6.84	ug/Kg		12/19/2022 17:09
Chlorobenzene	< 6.84	ug/Kg		12/19/2022 17:09
Chloroethane	< 6.84	ug/Kg		12/19/2022 17:09

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-03

Lab Sample ID: 225970-05

Date Sampled: 12/13/2022 13:05

Matrix: Soil

Date Received 12/15/2022

Chloroform	< 6.84	ug/Kg	12/19/2022 17:09
Chloromethane	< 6.84	ug/Kg	12/19/2022 17:09
cis-1,2-Dichloroethene	< 6.84	ug/Kg	12/19/2022 17:09
cis-1,3-Dichloropropene	< 6.84	ug/Kg	12/19/2022 17:09
Cyclohexane	< 34.2	ug/Kg	12/19/2022 17:09
Dibromochloromethane	< 6.84	ug/Kg	12/19/2022 17:09
Dichlorodifluoromethane	< 6.84	ug/Kg	12/19/2022 17:09
Ethylbenzene	< 6.84	ug/Kg	12/19/2022 17:09
Freon 113	< 6.84	ug/Kg	12/19/2022 17:09
Isopropylbenzene	< 6.84	ug/Kg	12/19/2022 17:09
m,p-Xylene	< 6.84	ug/Kg	12/19/2022 17:09
Methyl acetate	< 6.84	ug/Kg	12/19/2022 17:09
Methyl tert-butyl Ether	< 6.84	ug/Kg	12/19/2022 17:09
Methylcyclohexane	< 6.84	ug/Kg	12/19/2022 17:09
Methylene chloride	< 17.1	ug/Kg	12/19/2022 17:09
o-Xylene	< 6.84	ug/Kg	12/19/2022 17:09
Styrene	< 17.1	ug/Kg	12/19/2022 17:09
Tetrachloroethene	< 6.84	ug/Kg	12/19/2022 17:09
Toluene	< 6.84	ug/Kg	12/19/2022 17:09
trans-1,2-Dichloroethene	< 6.84	ug/Kg	12/19/2022 17:09
trans-1,3-Dichloropropene	< 6.84	ug/Kg	12/19/2022 17:09
Trichloroethene	< 6.84	ug/Kg	12/19/2022 17:09
Trichlorofluoromethane	< 6.84	ug/Kg	12/19/2022 17:09
Vinyl chloride	< 6.84	ug/Kg	12/19/2022 17:09



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-03

Lab Sample ID: 225970-05

Date Sampled: 12/13/2022 13:05

Matrix: Soil

Date Received 12/15/2022

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	104	74.7 - 140		12/19/2022 17:09
4-Bromofluorobenzene	96.2	68 - 130		12/19/2022 17:09
Pentafluorobenzene	98.5	70.3 - 140		12/19/2022 17:09
Toluene-D8	104	69 - 138		12/19/2022 17:09

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z14157.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-Comp-03

Lab Sample ID: 225970-06

Date Sampled: 12/13/2022 13:30

Matrix: Soil

Date Received: 12/15/2022

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-T	<339	ug/Kg		12/20/2022
2,4,5-TP (Silvex)	<339	ug/Kg		12/20/2022
2,4-D	<1360	ug/Kg		12/20/2022

Method Reference(s): EPA 8321B
Subcontractor ELAP ID: 10709

Ignitability

Analyte	Result	Units	Qualifier	Date Analyzed
Ignitability	No Burn	mm / sec		12/28/2022

Method Reference(s): EPA 1030

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	2.38	mg/Kg		12/30/2022 08:42

Method Reference(s): EPA 7471B
Preparation Date: 12/29/2022
Data File: Hg221230A

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	4.21	mg/Kg		12/22/2022
Barium	81.4	mg/Kg		12/22/2022
Cadmium	1.12	mg/Kg		12/22/2022
Chromium	11.2	mg/Kg		12/22/2022
Lead	213	mg/Kg		12/22/2022
Selenium	< 1.06	mg/Kg		12/22/2022
Silver	< 0.532	mg/Kg		12/22/2022

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-Comp-03

Lab Sample ID: 225970-06

Date Sampled: 12/13/2022 13:30

Matrix: Soil

Date Received: 12/15/2022

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 12/20/2022
Subcontractor ELAP ID: 10709

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.169	mg/Kg		12/21/2022 22:20
PCB-1221	< 0.169	mg/Kg		12/21/2022 22:20
PCB-1232	< 0.169	mg/Kg		12/21/2022 22:20
PCB-1242	< 0.169	mg/Kg		12/21/2022 22:20
PCB-1248	< 0.169	mg/Kg		12/21/2022 22:20
PCB-1254	< 0.169	mg/Kg		12/21/2022 22:20
PCB-1260	< 0.169	mg/Kg		12/21/2022 22:20
PCB-1262	< 0.169	mg/Kg		12/21/2022 22:20
PCB-1268	< 0.169	mg/Kg		12/21/2022 22:20

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	54.5	12.7 - 101		12/21/2022 22:20

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 12/21/2022

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.35 @ 20.6 C	S.U.		12/28/2022 13:23

Method Reference(s): EPA 9045D

Reactive Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Cyanide	<1.0	mg/Kg		12/20/2022

Method Reference(s): EPA 7.3.3.2
Subcontractor ELAP ID: 10709

*ELAP does not offer this test for approval as part of their laboratory certification program.
This sample has been reported as received.*

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-Comp-03

Lab Sample ID: 225970-06

Date Sampled: 12/13/2022 13:30

Matrix: Soil

Date Received: 12/15/2022

Reactive Sulfide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Sulfide	<10	mg/Kg		12/20/2022

Method Reference(s): EPA 7.3.4.2

Subcontractor ELAP ID: 10709

ELAP does not offer this test for approval as part of their laboratory certification program.

This sample has been reported as received.

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 315	ug/Kg		12/21/2022 14:48
1,2,4,5-Tetrachlorobenzene	< 315	ug/Kg		12/21/2022 14:48
1,2,4-Trichlorobenzene	< 315	ug/Kg		12/21/2022 14:48
1,2-Dichlorobenzene	< 315	ug/Kg		12/21/2022 14:48
1,3-Dichlorobenzene	< 315	ug/Kg		12/21/2022 14:48
1,4-Dichlorobenzene	< 315	ug/Kg		12/21/2022 14:48
2,2-Oxybis (1-chloropropane)	< 315	ug/Kg		12/21/2022 14:48
2,3,4,6-Tetrachlorophenol	< 315	ug/Kg		12/21/2022 14:48
2,4,5-Trichlorophenol	< 315	ug/Kg		12/21/2022 14:48
2,4,6-Trichlorophenol	< 315	ug/Kg		12/21/2022 14:48
2,4-Dichlorophenol	< 315	ug/Kg		12/21/2022 14:48
2,4-Dimethylphenol	< 315	ug/Kg		12/21/2022 14:48
2,4-Dinitrophenol	< 1260	ug/Kg		12/21/2022 14:48
2,4-Dinitrotoluene	< 315	ug/Kg		12/21/2022 14:48
2,6-Dinitrotoluene	< 315	ug/Kg		12/21/2022 14:48
2-Chloronaphthalene	< 315	ug/Kg		12/21/2022 14:48
2-Chlorophenol	< 315	ug/Kg		12/21/2022 14:48
2-Methylnaphthalene	< 315	ug/Kg		12/21/2022 14:48
2-Methylphenol	< 315	ug/Kg		12/21/2022 14:48
2-Nitroaniline	< 315	ug/Kg		12/21/2022 14:48
2-Nitrophenol	< 315	ug/Kg		12/21/2022 14:48

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-Comp-03

Lab Sample ID: 225970-06

Date Sampled: 12/13/2022 13:30

Matrix: Soil

Date Received 12/15/2022

3&4-Methylphenol	< 315	ug/Kg	12/21/2022 14:48
3,3'-Dichlorobenzidine	< 315	ug/Kg	12/21/2022 14:48
3-Nitroaniline	< 315	ug/Kg	12/21/2022 14:48
4,6-Dinitro-2-methylphenol	< 421	ug/Kg	12/21/2022 14:48
4-Bromophenyl phenyl ether	< 315	ug/Kg	12/21/2022 14:48
4-Chloro-3-methylphenol	< 315	ug/Kg	12/21/2022 14:48
4-Chloroaniline	< 315	ug/Kg	12/21/2022 14:48
4-Chlorophenyl phenyl ether	< 315	ug/Kg	12/21/2022 14:48
4-Nitroaniline	< 315	ug/Kg	12/21/2022 14:48
4-Nitrophenol	< 315	ug/Kg	12/21/2022 14:48
Acenaphthene	< 315	ug/Kg	12/21/2022 14:48
Acenaphthylene	< 315	ug/Kg	12/21/2022 14:48
Acetophenone	< 315	ug/Kg	12/21/2022 14:48
Anthracene	< 315	ug/Kg	12/21/2022 14:48
Atrazine	< 315	ug/Kg	12/21/2022 14:48
Benzaldehyde	< 315	ug/Kg	12/21/2022 14:48
Benzo (a) anthracene	383	ug/Kg	12/21/2022 14:48
Benzo (a) pyrene	430	ug/Kg	12/21/2022 14:48
Benzo (b) fluoranthene	405	ug/Kg	12/21/2022 14:48
Benzo (g,h,i) perylene	< 315	ug/Kg	12/21/2022 14:48
Benzo (k) fluoranthene	< 315	ug/Kg	12/21/2022 14:48
Bis (2-chloroethoxy) methane	< 315	ug/Kg	12/21/2022 14:48
Bis (2-chloroethyl) ether	< 315	ug/Kg	12/21/2022 14:48
Bis (2-ethylhexyl) phthalate	< 315	ug/Kg	12/21/2022 14:48
Butylbenzylphthalate	< 315	ug/Kg	12/21/2022 14:48
Caprolactam	< 315	ug/Kg	12/21/2022 14:48
Carbazole	< 315	ug/Kg	12/21/2022 14:48
Chrysene	385	ug/Kg	12/21/2022 14:48
Dibenz (a,h) anthracene	< 315	ug/Kg	12/21/2022 14:48
Dibenzofuran	< 315	ug/Kg	12/21/2022 14:48

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-Comp-03

Lab Sample ID: 225970-06

Date Sampled: 12/13/2022 13:30

Matrix: Soil

Date Received 12/15/2022

Diethyl phthalate	< 315	ug/Kg	12/21/2022	14:48
Dimethyl phthalate	< 315	ug/Kg	12/21/2022	14:48
Di-n-butyl phthalate	< 315	ug/Kg	12/21/2022	14:48
Di-n-octylphthalate	< 315	ug/Kg	12/21/2022	14:48
Fluoranthene	742	ug/Kg	12/21/2022	14:48
Fluorene	< 315	ug/Kg	12/21/2022	14:48
Hexachlorobenzene	< 315	ug/Kg	12/21/2022	14:48
Hexachlorobutadiene	< 315	ug/Kg	12/21/2022	14:48
Hexachlorocyclopentadiene	< 1260	ug/Kg	12/21/2022	14:48
Hexachloroethane	< 315	ug/Kg	12/21/2022	14:48
Indeno (1,2,3-cd) pyrene	< 315	ug/Kg	12/21/2022	14:48
Isophorone	< 315	ug/Kg	12/21/2022	14:48
Naphthalene	< 315	ug/Kg	12/21/2022	14:48
Nitrobenzene	< 315	ug/Kg	12/21/2022	14:48
N-Nitroso-di-n-propylamine	< 315	ug/Kg	12/21/2022	14:48
N-Nitrosodiphenylamine	< 315	ug/Kg	12/21/2022	14:48
Pentachlorophenol	< 629	ug/Kg	12/21/2022	14:48
Phenanthrene	361	ug/Kg	12/21/2022	14:48
Phenol	< 315	ug/Kg	12/21/2022	14:48
Pyrene	604	ug/Kg	12/21/2022	14:48

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2,4,6-Tribromophenol	60.9	35.4 - 92.4		12/21/2022 14:48
2-Fluorobiphenyl	58.2	39.6 - 84.4		12/21/2022 14:48
2-Fluorophenol	53.2	35.5 - 78.9		12/21/2022 14:48
Nitrobenzene-d5	55.1	36.5 - 78.2		12/21/2022 14:48
Phenol-d5	59.6	37.1 - 78.3		12/21/2022 14:48
Terphenyl-d14	62.0	42.3 - 103		12/21/2022 14:48

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/20/2022
Data File: B65684.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-Comp-03

Lab Sample ID: 225970-06

Date Sampled: 12/13/2022 13:30

Matrix: Soil

Date Received 12/15/2022

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	<3.7	ug/Kg		12/21/2022
4,4-DDE	<3.7	ug/Kg		12/21/2022
4,4-DDT	<3.7	ug/Kg		12/21/2022
Aldrin	<1.9	ug/Kg		12/21/2022
alpha-BHC	<1.9	ug/Kg		12/21/2022
beta-BHC	<1.9	ug/Kg		12/21/2022
Chlordane	<190	ug/Kg		12/21/2022
cis-Chlordane	<1.9	ug/Kg		12/21/2022
delta-BHC	<1.9	ug/Kg		12/21/2022
Dieldrin	<3.7	ug/Kg		12/21/2022
Endosulfan I	<1.9	ug/Kg		12/21/2022
Endosulfan II	<3.7	ug/Kg		12/21/2022
Endosulfan Sulfate	<3.7	ug/Kg		12/21/2022
Endrin	<3.7	ug/Kg		12/21/2022
Endrin Aldehyde	<3.7	ug/Kg		12/21/2022
Endrin Ketone	<3.7	ug/Kg		12/21/2022
gamma-BHC (Lindane)	<1.9	ug/Kg		12/21/2022
Heptachlor	<1.9	ug/Kg		12/21/2022
Heptachlor Epoxide	<2.3	ug/Kg		12/21/2022
Methoxychlor	<19	ug/Kg		12/21/2022
Toxaphene	<190	ug/Kg		12/21/2022
trans-Chlordane	<1.9	ug/Kg		12/21/2022

Method Reference(s): EPA 8081B

Subcontractor ELAP ID: 10709



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: GP-02

Lab Sample ID: 225970-07

Date Sampled: 12/13/2022 9:15

Matrix: Soil

Date Received: 12/15/2022

Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	0.0121	mg/Kg		12/19/2022 16:55
Method Reference(s):	EPA 7471B			
Preparation Date:	12/19/2022			
Data File:	Hg221219B			

RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Arsenic	1.28	mg/Kg		12/22/2022
Barium	25.4	mg/Kg		12/22/2022
Cadmium	0.695	mg/Kg		12/22/2022
Chromium	8.71	mg/Kg		12/22/2022
Lead	7.59	mg/Kg		12/22/2022
Selenium	< 1.07	mg/Kg		12/22/2022
Silver	< 0.534	mg/Kg		12/22/2022
Method Reference(s):	EPA 6010C EPA 3050B			
Preparation Date:	12/20/2022			
Subcontractor ELAP ID:	10709			

PCBs

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
PCB-1016	< 0.179	mg/Kg		12/21/2022 22:43
PCB-1221	< 0.179	mg/Kg		12/21/2022 22:43
PCB-1232	< 0.179	mg/Kg		12/21/2022 22:43
PCB-1242	< 0.179	mg/Kg		12/21/2022 22:43
PCB-1248	< 0.179	mg/Kg		12/21/2022 22:43
PCB-1254	< 0.179	mg/Kg		12/21/2022 22:43
PCB-1260	< 0.179	mg/Kg		12/21/2022 22:43
PCB-1262	< 0.179	mg/Kg		12/21/2022 22:43
PCB-1268	< 0.179	mg/Kg		12/21/2022 22:43

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: GP-02

Lab Sample ID: 225970-07

Date Sampled: 12/13/2022 9:15

Matrix: Soil

Date Received: 12/15/2022

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Tetrachloro-m-xylene	70.5	12.7 - 101		12/21/2022 22:43

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 12/21/2022

Semi-Volatile Organics (PAHs)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Acenaphthene	< 290	ug/Kg		12/21/2022 15:17
Acenaphthylene	< 290	ug/Kg		12/21/2022 15:17
Anthracene	< 290	ug/Kg		12/21/2022 15:17
Benzo (a) anthracene	< 290	ug/Kg		12/21/2022 15:17
Benzo (a) pyrene	< 290	ug/Kg		12/21/2022 15:17
Benzo (b) fluoranthene	< 290	ug/Kg		12/21/2022 15:17
Benzo (g,h,i) perylene	< 290	ug/Kg		12/21/2022 15:17
Benzo (k) fluoranthene	< 290	ug/Kg		12/21/2022 15:17
Chrysene	< 290	ug/Kg		12/21/2022 15:17
Dibenz (a,h) anthracene	< 290	ug/Kg		12/21/2022 15:17
Fluoranthene	< 290	ug/Kg		12/21/2022 15:17
Fluorene	< 290	ug/Kg		12/21/2022 15:17
Indeno (1,2,3-cd) pyrene	< 290	ug/Kg		12/21/2022 15:17
Naphthalene	< 290	ug/Kg		12/21/2022 15:17
Phenanthrene	< 290	ug/Kg		12/21/2022 15:17
Pyrene	< 290	ug/Kg		12/21/2022 15:17

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2-Fluorobiphenyl	56.5	39.6 - 84.4		12/21/2022 15:17
Nitrobenzene-d5	51.6	36.5 - 78.2		12/21/2022 15:17
Terphenyl-d14	58.4	42.3 - 103		12/21/2022 15:17

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/20/2022
Data File: B65685.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: GP-02

Lab Sample ID: 225970-07

Date Sampled: 12/13/2022 9:15

Matrix: Soil

Date Received: 12/15/2022

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	3470	ug/Kg		12/19/2022 17:28
1,3,5-Trimethylbenzene	1310	ug/Kg		12/19/2022 17:28
Benzene	< 130	ug/Kg		12/19/2022 17:28
Ethylbenzene	< 130	ug/Kg		12/19/2022 17:28
Isopropylbenzene	< 130	ug/Kg		12/19/2022 17:28
m,p-Xylene	655	ug/Kg		12/19/2022 17:28
Methyl tert-butyl Ether	< 130	ug/Kg		12/19/2022 17:28
Naphthalene	406	ug/Kg		12/19/2022 17:28
n-Butylbenzene	< 130	ug/Kg		12/19/2022 17:28
n-Propylbenzene	381	ug/Kg		12/19/2022 17:28
o-Xylene	< 130	ug/Kg		12/19/2022 17:28
p-Isopropyltoluene	< 130	ug/Kg		12/19/2022 17:28
sec-Butylbenzene	< 130	ug/Kg		12/19/2022 17:28
tert-Butylbenzene	< 130	ug/Kg		12/19/2022 17:28
Toluene	< 130	ug/Kg		12/19/2022 17:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	102	74.7 - 140		12/19/2022 17:28
4-Bromofluorobenzene	101	68 - 130		12/19/2022 17:28
Pentafluorobenzene	98.5	70.3 - 140		12/19/2022 17:28
Toluene-D8	98.2	69 - 138		12/19/2022 17:28

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z14158.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: GP-03

Lab Sample ID: 225970-08

Date Sampled: 12/13/2022 9:45

Matrix: Soil

Date Received: 12/15/2022

Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	< 0.00817	mg/Kg		12/19/2022 16:57
Method Reference(s):	EPA 7471B			
Preparation Date:	12/19/2022			
Data File:	Hg221219B			

RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Arsenic	2.12	mg/Kg		12/22/2022
Barium	22.5	mg/Kg		12/22/2022
Cadmium	0.516	mg/Kg		12/22/2022
Chromium	5.16	mg/Kg		12/22/2022
Lead	< 0.573	mg/Kg		12/22/2022
Selenium	< 1.15	mg/Kg		12/22/2022
Silver	< 0.573	mg/Kg		12/22/2022
Method Reference(s):	EPA 6010C EPA 3050B			
Preparation Date:	12/20/2022			
Subcontractor ELAP ID:	10709			

PCBs

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
PCB-1016	< 0.168	mg/Kg		12/21/2022 23:06
PCB-1221	< 0.168	mg/Kg		12/21/2022 23:06
PCB-1232	< 0.168	mg/Kg		12/21/2022 23:06
PCB-1242	< 0.168	mg/Kg		12/21/2022 23:06
PCB-1248	< 0.168	mg/Kg		12/21/2022 23:06
PCB-1254	< 0.168	mg/Kg		12/21/2022 23:06
PCB-1260	< 0.168	mg/Kg		12/21/2022 23:06
PCB-1262	< 0.168	mg/Kg		12/21/2022 23:06
PCB-1268	< 0.168	mg/Kg		12/21/2022 23:06

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: GP-03

Lab Sample ID: 225970-08

Date Sampled: 12/13/2022 9:45

Matrix: Soil

Date Received: 12/15/2022

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Tetrachloro-m-xylene	66.8	12.7 - 101		12/21/2022 23:06

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 12/21/2022

Semi-Volatile Organics (PAHs)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Acenaphthene	< 322	ug/Kg		12/21/2022 15:46
Acenaphthylene	< 322	ug/Kg		12/21/2022 15:46
Anthracene	< 322	ug/Kg		12/21/2022 15:46
Benzo (a) anthracene	< 322	ug/Kg		12/21/2022 15:46
Benzo (a) pyrene	< 322	ug/Kg		12/21/2022 15:46
Benzo (b) fluoranthene	< 322	ug/Kg		12/21/2022 15:46
Benzo (g,h,i) perylene	< 322	ug/Kg		12/21/2022 15:46
Benzo (k) fluoranthene	< 322	ug/Kg		12/21/2022 15:46
Chrysene	< 322	ug/Kg		12/21/2022 15:46
Dibenz (a,h) anthracene	< 322	ug/Kg		12/21/2022 15:46
Fluoranthene	< 322	ug/Kg		12/21/2022 15:46
Fluorene	< 322	ug/Kg		12/21/2022 15:46
Indeno (1,2,3-cd) pyrene	< 322	ug/Kg		12/21/2022 15:46
Naphthalene	< 322	ug/Kg		12/21/2022 15:46
Phenanthrene	< 322	ug/Kg		12/21/2022 15:46
Pyrene	< 322	ug/Kg		12/21/2022 15:46

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2-Fluorobiphenyl	54.6	39.6 - 84.4		12/21/2022 15:46
Nitrobenzene-d5	53.5	36.5 - 78.2		12/21/2022 15:46
Terphenyl-d14	58.4	42.3 - 103		12/21/2022 15:46

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/20/2022
Data File: B65686.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: GP-03

Lab Sample ID: 225970-08

Date Sampled: 12/13/2022 9:45

Matrix: Soil

Date Received: 12/15/2022

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	8.39	ug/Kg		12/19/2022 17:48
1,3,5-Trimethylbenzene	< 6.89	ug/Kg		12/19/2022 17:48
Benzene	< 6.89	ug/Kg		12/19/2022 17:48
Ethylbenzene	< 6.89	ug/Kg		12/19/2022 17:48
Isopropylbenzene	< 6.89	ug/Kg		12/19/2022 17:48
m,p-Xylene	7.21	ug/Kg		12/19/2022 17:48
Methyl tert-butyl Ether	< 6.89	ug/Kg		12/19/2022 17:48
Naphthalene	< 17.2	ug/Kg		12/19/2022 17:48
n-Butylbenzene	< 6.89	ug/Kg		12/19/2022 17:48
n-Propylbenzene	< 6.89	ug/Kg		12/19/2022 17:48
o-Xylene	< 6.89	ug/Kg		12/19/2022 17:48
p-Isopropyltoluene	< 6.89	ug/Kg		12/19/2022 17:48
sec-Butylbenzene	< 6.89	ug/Kg		12/19/2022 17:48
tert-Butylbenzene	< 6.89	ug/Kg		12/19/2022 17:48
Toluene	< 6.89	ug/Kg		12/19/2022 17:48

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	102	74.7 - 140		12/19/2022 17:48
4-Bromofluorobenzene	93.3	68 - 130		12/19/2022 17:48
Pentafluorobenzene	101	70.3 - 140		12/19/2022 17:48
Toluene-D8	100	69 - 138		12/19/2022 17:48

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z14159.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: GP-04

Lab Sample ID: 225970-09

Date Sampled: 12/13/2022 10:15

Matrix: Soil

Date Received: 12/15/2022

Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	< 0.00855	mg/Kg		12/19/2022 16:59
Method Reference(s):	EPA 7471B			
Preparation Date:	12/19/2022			
Data File:	Hg221219B			

RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Arsenic	0.903	mg/Kg		12/22/2022
Barium	28.8	mg/Kg		12/22/2022
Cadmium	0.638	mg/Kg		12/22/2022
Chromium	6.64	mg/Kg		12/22/2022
Lead	< 0.531	mg/Kg		12/22/2022
Selenium	< 1.06	mg/Kg		12/22/2022
Silver	< 0.531	mg/Kg		12/22/2022
Method Reference(s):	EPA 6010C EPA 3050B			
Preparation Date:	12/20/2022			
Subcontractor ELAP ID:	10709			

PCBs

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
PCB-1016	< 0.156	mg/Kg		12/21/2022 23:29
PCB-1221	< 0.156	mg/Kg		12/21/2022 23:29
PCB-1232	< 0.156	mg/Kg		12/21/2022 23:29
PCB-1242	< 0.156	mg/Kg		12/21/2022 23:29
PCB-1248	< 0.156	mg/Kg		12/21/2022 23:29
PCB-1254	< 0.156	mg/Kg		12/21/2022 23:29
PCB-1260	< 0.156	mg/Kg		12/21/2022 23:29
PCB-1262	< 0.156	mg/Kg		12/21/2022 23:29
PCB-1268	< 0.156	mg/Kg		12/21/2022 23:29

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: GP-04

Lab Sample ID: 225970-09

Date Sampled: 12/13/2022 10:15

Matrix: Soil

Date Received: 12/15/2022

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Tetrachloro-m-xylene	78.6	12.7 - 101		12/21/2022 23:29

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 12/21/2022

Semi-Volatile Organics (PAHs)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Acenaphthene	< 299	ug/Kg		12/21/2022 16:15
Acenaphthylene	< 299	ug/Kg		12/21/2022 16:15
Anthracene	< 299	ug/Kg		12/21/2022 16:15
Benzo (a) anthracene	< 299	ug/Kg		12/21/2022 16:15
Benzo (a) pyrene	< 299	ug/Kg		12/21/2022 16:15
Benzo (b) fluoranthene	< 299	ug/Kg		12/21/2022 16:15
Benzo (g,h,i) perylene	< 299	ug/Kg		12/21/2022 16:15
Benzo (k) fluoranthene	< 299	ug/Kg		12/21/2022 16:15
Chrysene	< 299	ug/Kg		12/21/2022 16:15
Dibenz (a,h) anthracene	< 299	ug/Kg		12/21/2022 16:15
Fluoranthene	< 299	ug/Kg		12/21/2022 16:15
Fluorene	< 299	ug/Kg		12/21/2022 16:15
Indeno (1,2,3-cd) pyrene	< 299	ug/Kg		12/21/2022 16:15
Naphthalene	< 299	ug/Kg		12/21/2022 16:15
Phenanthrene	< 299	ug/Kg		12/21/2022 16:15
Pyrene	< 299	ug/Kg		12/21/2022 16:15

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2-Fluorobiphenyl	59.4	39.6 - 84.4		12/21/2022 16:15
Nitrobenzene-d5	56.9	36.5 - 78.2		12/21/2022 16:15
Terphenyl-d14	64.6	42.3 - 103		12/21/2022 16:15

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/20/2022
Data File: B65687.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: GP-04

Lab Sample ID: 225970-09

Date Sampled: 12/13/2022 10:15

Matrix: Soil

Date Received 12/15/2022

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 8.48	ug/Kg		12/19/2022 18:07
1,3,5-Trimethylbenzene	< 8.48	ug/Kg		12/19/2022 18:07
Benzene	< 8.48	ug/Kg		12/19/2022 18:07
Ethylbenzene	< 8.48	ug/Kg		12/19/2022 18:07
Isopropylbenzene	< 8.48	ug/Kg		12/19/2022 18:07
m,p-Xylene	< 8.48	ug/Kg		12/19/2022 18:07
Methyl tert-butyl Ether	< 8.48	ug/Kg		12/19/2022 18:07
Naphthalene	< 21.2	ug/Kg		12/19/2022 18:07
n-Butylbenzene	< 8.48	ug/Kg		12/19/2022 18:07
n-Propylbenzene	< 8.48	ug/Kg		12/19/2022 18:07
o-Xylene	< 8.48	ug/Kg		12/19/2022 18:07
p-Isopropyltoluene	< 8.48	ug/Kg		12/19/2022 18:07
sec-Butylbenzene	< 8.48	ug/Kg		12/19/2022 18:07
tert-Butylbenzene	< 8.48	ug/Kg		12/19/2022 18:07
Toluene	< 8.48	ug/Kg		12/19/2022 18:07

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	107	74.7 - 140		12/19/2022 18:07
4-Bromofluorobenzene	94.5	68 - 130		12/19/2022 18:07
Pentafluorobenzene	99.0	70.3 - 140		12/19/2022 18:07
Toluene-D8	99.1	69 - 138		12/19/2022 18:07

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z14160.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: GP-06

Lab Sample ID: 225970-10

Date Sampled: 12/13/2022 12:00

Matrix: Soil

Date Received: 12/15/2022

Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	0.0465	mg/Kg		12/19/2022 17:01
Method Reference(s):	EPA 7471B			
Preparation Date:	12/19/2022			
Data File:	Hg221219B			

RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Arsenic	1.51	mg/Kg		12/22/2022
Barium	36.0	mg/Kg		12/22/2022
Cadmium	1.34	mg/Kg		12/22/2022
Chromium	13.7	mg/Kg		12/22/2022
Lead	< 0.560	mg/Kg		12/22/2022
Selenium	< 1.12	mg/Kg		12/22/2022
Silver	< 0.560	mg/Kg		12/22/2022
Method Reference(s):	EPA 6010C EPA 3050B			
Preparation Date:	12/20/2022			
Subcontractor ELAP ID:	10709			

PCBs

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
PCB-1016	< 0.167	mg/Kg		12/21/2022 23:52
PCB-1221	< 0.167	mg/Kg		12/21/2022 23:52
PCB-1232	< 0.167	mg/Kg		12/21/2022 23:52
PCB-1242	< 0.167	mg/Kg		12/21/2022 23:52
PCB-1248	< 0.167	mg/Kg		12/21/2022 23:52
PCB-1254	< 0.167	mg/Kg		12/21/2022 23:52
PCB-1260	< 0.167	mg/Kg		12/21/2022 23:52
PCB-1262	< 0.167	mg/Kg		12/21/2022 23:52
PCB-1268	< 0.167	mg/Kg		12/21/2022 23:52

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: GP-06

Lab Sample ID: 225970-10

Date Sampled: 12/13/2022 12:00

Matrix: Soil

Date Received: 12/15/2022

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Tetrachloro-m-xylene	74.7	12.7 - 101		12/21/2022 23:52

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 12/21/2022

Semi-Volatile Organics (PAHs)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Acenaphthene	< 308	ug/Kg		12/21/2022 16:43
Acenaphthylene	< 308	ug/Kg		12/21/2022 16:43
Anthracene	< 308	ug/Kg		12/21/2022 16:43
Benzo (a) anthracene	< 308	ug/Kg		12/21/2022 16:43
Benzo (a) pyrene	< 308	ug/Kg		12/21/2022 16:43
Benzo (b) fluoranthene	< 308	ug/Kg		12/21/2022 16:43
Benzo (g,h,i) perylene	< 308	ug/Kg		12/21/2022 16:43
Benzo (k) fluoranthene	< 308	ug/Kg		12/21/2022 16:43
Chrysene	< 308	ug/Kg		12/21/2022 16:43
Dibenz (a,h) anthracene	< 308	ug/Kg		12/21/2022 16:43
Fluoranthene	< 308	ug/Kg		12/21/2022 16:43
Fluorene	< 308	ug/Kg		12/21/2022 16:43
Indeno (1,2,3-cd) pyrene	< 308	ug/Kg		12/21/2022 16:43
Naphthalene	< 308	ug/Kg		12/21/2022 16:43
Phenanthrene	< 308	ug/Kg		12/21/2022 16:43
Pyrene	< 308	ug/Kg		12/21/2022 16:43

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2-Fluorobiphenyl	65.9	39.6 - 84.4		12/21/2022 16:43
Nitrobenzene-d5	62.0	36.5 - 78.2		12/21/2022 16:43
Terphenyl-d14	67.6	42.3 - 103		12/21/2022 16:43

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/20/2022
Data File: B65688.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: GP-06

Lab Sample ID: 225970-10

Date Sampled: 12/13/2022 12:00

Matrix: Soil

Date Received: 12/15/2022

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	111	ug/Kg		12/19/2022 18:26
1,3,5-Trimethylbenzene	37.8	ug/Kg		12/19/2022 18:26
Benzene	< 7.22	ug/Kg		12/19/2022 18:26
Ethylbenzene	13.6	ug/Kg		12/19/2022 18:26
Isopropylbenzene	< 7.22	ug/Kg		12/19/2022 18:26
m,p-Xylene	31.7	ug/Kg		12/19/2022 18:26
Methyl tert-butyl Ether	< 7.22	ug/Kg		12/19/2022 18:26
Naphthalene	< 18.1	ug/Kg		12/19/2022 18:26
n-Butylbenzene	7.36	ug/Kg		12/19/2022 18:26
n-Propylbenzene	13.9	ug/Kg		12/19/2022 18:26
o-Xylene	< 7.22	ug/Kg		12/19/2022 18:26
p-Isopropyltoluene	< 7.22	ug/Kg		12/19/2022 18:26
sec-Butylbenzene	< 7.22	ug/Kg		12/19/2022 18:26
tert-Butylbenzene	< 7.22	ug/Kg		12/19/2022 18:26
Toluene	< 7.22	ug/Kg		12/19/2022 18:26

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	99.4	74.7 - 140		12/19/2022 18:26
4-Bromofluorobenzene	92.0	68 - 130		12/19/2022 18:26
Pentafluorobenzene	99.8	70.3 - 140		12/19/2022 18:26
Toluene-D8	101	69 - 138		12/19/2022 18:26

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z14161.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: GP-08

Lab Sample ID: 225970-11

Date Sampled: 12/13/2022 13:15

Matrix: Soil

Date Received: 12/15/2022

Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	< 0.00798	mg/Kg		12/19/2022 17:03
Method Reference(s):	EPA 7471B			
Preparation Date:	12/19/2022			
Data File:	Hg221219B			

RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Arsenic	0.755	mg/Kg		12/22/2022
Barium	28.7	mg/Kg		12/22/2022
Cadmium	0.593	mg/Kg		12/22/2022
Chromium	5.72	mg/Kg		12/22/2022
Lead	< 0.539	mg/Kg		12/22/2022
Selenium	< 1.08	mg/Kg		12/22/2022
Silver	< 0.539	mg/Kg		12/22/2022
Method Reference(s):	EPA 6010C EPA 3050B			
Preparation Date:	12/20/2022			
Subcontractor ELAP ID:	10709			

PCBs

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
PCB-1016	< 0.152	mg/Kg		12/22/2022 00:15
PCB-1221	< 0.152	mg/Kg		12/22/2022 00:15
PCB-1232	< 0.152	mg/Kg		12/22/2022 00:15
PCB-1242	< 0.152	mg/Kg		12/22/2022 00:15
PCB-1248	< 0.152	mg/Kg		12/22/2022 00:15
PCB-1254	< 0.152	mg/Kg		12/22/2022 00:15
PCB-1260	< 0.152	mg/Kg		12/22/2022 00:15
PCB-1262	< 0.152	mg/Kg		12/22/2022 00:15
PCB-1268	< 0.152	mg/Kg		12/22/2022 00:15

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: GP-08

Lab Sample ID: 225970-11

Date Sampled: 12/13/2022 13:15

Matrix: Soil

Date Received: 12/15/2022

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Tetrachloro-m-xylene	63.2	12.7 - 101		12/22/2022 00:15

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 12/21/2022

Semi-Volatile Organics (PAHs)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Acenaphthene	< 313	ug/Kg		12/21/2022 17:12
Acenaphthylene	< 313	ug/Kg		12/21/2022 17:12
Anthracene	< 313	ug/Kg		12/21/2022 17:12
Benzo (a) anthracene	< 313	ug/Kg		12/21/2022 17:12
Benzo (a) pyrene	< 313	ug/Kg		12/21/2022 17:12
Benzo (b) fluoranthene	< 313	ug/Kg		12/21/2022 17:12
Benzo (g,h,i) perylene	< 313	ug/Kg		12/21/2022 17:12
Benzo (k) fluoranthene	< 313	ug/Kg		12/21/2022 17:12
Chrysene	< 313	ug/Kg		12/21/2022 17:12
Dibenz (a,h) anthracene	< 313	ug/Kg		12/21/2022 17:12
Fluoranthene	< 313	ug/Kg		12/21/2022 17:12
Fluorene	< 313	ug/Kg		12/21/2022 17:12
Indeno (1,2,3-cd) pyrene	< 313	ug/Kg		12/21/2022 17:12
Naphthalene	< 313	ug/Kg		12/21/2022 17:12
Phenanthrene	< 313	ug/Kg		12/21/2022 17:12
Pyrene	< 313	ug/Kg		12/21/2022 17:12

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2-Fluorobiphenyl	65.1	39.6 - 84.4		12/21/2022 17:12
Nitrobenzene-d5	61.0	36.5 - 78.2		12/21/2022 17:12
Terphenyl-d14	68.7	42.3 - 103		12/21/2022 17:12

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/20/2022
Data File: B65689.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: GP-08

Lab Sample ID: 225970-11

Date Sampled: 12/13/2022 13:15

Matrix: Soil

Date Received 12/15/2022

Volatile Organics (Petroleum)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trimethylbenzene	< 10.8	ug/Kg		12/19/2022 18:46
1,3,5-Trimethylbenzene	< 10.8	ug/Kg		12/19/2022 18:46
Benzene	< 10.8	ug/Kg		12/19/2022 18:46
Ethylbenzene	< 10.8	ug/Kg		12/19/2022 18:46
Isopropylbenzene	< 10.8	ug/Kg		12/19/2022 18:46
m,p-Xylene	< 10.8	ug/Kg		12/19/2022 18:46
Methyl tert-butyl Ether	< 10.8	ug/Kg		12/19/2022 18:46
Naphthalene	< 27.0	ug/Kg		12/19/2022 18:46
n-Butylbenzene	< 10.8	ug/Kg		12/19/2022 18:46
n-Propylbenzene	< 10.8	ug/Kg		12/19/2022 18:46
o-Xylene	< 10.8	ug/Kg		12/19/2022 18:46
p-Isopropyltoluene	< 10.8	ug/Kg		12/19/2022 18:46
sec-Butylbenzene	< 10.8	ug/Kg		12/19/2022 18:46
tert-Butylbenzene	< 10.8	ug/Kg		12/19/2022 18:46
Toluene	< 10.8	ug/Kg		12/19/2022 18:46

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	106	74.7 - 140		12/19/2022 18:46
4-Bromofluorobenzene	95.4	68 - 130		12/19/2022 18:46
Pentafluorobenzene	98.9	70.3 - 140		12/19/2022 18:46
Toluene-D8	101	69 - 138		12/19/2022 18:46

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z14162.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"H" = Denotes a parameter analyzed outside of holding time.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



CHAIN OF CUSTODY

REPORT TO:

INVOICE TO:

CLIENT: Lv Engineers ADDRESS: 280 East Road Street Site 70 CITY: Rochester STATE: NY ZIP: 14604 PHONE: 585-385-7417 ATTN: Ben Seifert	CLIENT: Same ADDRESS: 30 Church Street Room 3008 CITY: Rochester STATE: NY ZIP: 14614 PHONE: 585-428-7892 ATTN: Jane Forbes	LAB PROJECT ID: 225970 Quotation #: Email: bseifert@lveng.com URL: Jane.Forbes@CityofRochester.gov
PROJECT REFERENCE: Central Ave Po# 22000918	Matrix Codes: AQ - Aqueous Liquid NA - Non-Aqueous Liquid	Requested Analysis: WA - Water WG - Groundwater DW - Drinking Water WW - Wastewater SO - Soil SL - Sludge SD - Solid PT - Paint WP - Wipe CK - Caulk OL - Oil AR - Air

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRADES	SAMPLE IDENTIFIER	MATRIX	NO. OF SAMPLES	TESTS	REMARKS	PARADIGM LAB SAMPLE NUMBER
12/13/22	13:00	✓	✓	Fill-01	SD	1	TEL VOC TEL SVOC Total Pest. Total Herb. Ignitability pH Reactive cyanide Reactive sulfide RCRA Metals PCBs CP-SI VOCs CP-SI SVOCs	Please homogenize composite	-01
	13:20	✓	✓	Fill - Comp - 01		2		Sample	-02
	13:10	✓	✓	Fill-02		1			-03
	13:25	✓	✓	Fill-Comp-02		2		Samples have strong gasoline odor	-04
	13:05	✓	✓	Fill-03		1			-05
	13:30	✓	✓	Fill-Comp-03		2			-06
	09:15	✓	✓	GP-02		3			-07
	09:45	✓	✓	GP-03		3			-08
	10:15	✓	✓	GP-04		3		if needed	-09
	12:00	✓	✓	GP-06		3			-10
	13:15	✓	✓	GP-08		3			-11

Turnaround Time Availability contingent upon lab approval; additional fees may apply.	Report Supplements None Required <input checked="" type="checkbox"/>
Standard 5 day <input checked="" type="checkbox"/> 10 day <input checked="" type="checkbox"/> <i>M.S.</i> Rush 3 day <input type="checkbox"/> Rush 2 day <input type="checkbox"/> Rush 1 day <input type="checkbox"/> Other <input type="checkbox"/>	None Required <input checked="" type="checkbox"/> Batch QC <input type="checkbox"/> Category A <input type="checkbox"/> Category B <input type="checkbox"/> Other <input type="checkbox"/>
Other <input type="checkbox"/> please indicate date needed:	Other EDD <input type="checkbox"/> please indicate EDD needed:

Sampled By: <i>Ben Seifert</i> Date/Time: 12/13/22 13:45 Total Cost:	Relinquished By: <i>Ben Seifert</i> Date/Time: 12/15/22 15:01
Received By: <i>Jane Forbes</i> Date/Time: 12/15/22 15:03 P.I.F.:	Received @ Lab By: <i>Jane Forbes</i> Date/Time: 12/15/22

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

1682

2022



Chain of Custody Supplement

Client: Lu Bagners

Completed by: ZF

Lab Project ID: 225970

Date: 12/15/22

Sample Condition Requirements Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 5035	<input type="checkbox"/>
Comments	_____		
Transferred to method-compliant container	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Headspace (<1 mL)	<input checked="" type="checkbox"/> VTC2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Preservation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Met
Comments	0.5°C		
Compliant Sample Quantity/Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		



179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

221219044

ELAP ID:

REPORT TO:

INVOICE TO:

COMPANY: Paradigm Environmental	COMPANY: Same	LAB PROJECT #:	CLIENT PROJEC
ADDRESS:	ADDRESS:	TURNAROUND TIME: (WORKING DAYS)	
CITY: STATE: ZIP:	CITY: STATE: ZIP:		
PHONE: FAX:	PHONE: FAX:		
ATTN: Reporting	ATTN: Accounts Payable	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 5 STD	
COMMENTS: Please email results to reporting@paradigmenv.com		Date Due: 12/27	

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GARAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONUNTS BENER	REMARKS	PARADIGM LAB SAMPLE NUMBER
12/19/12	1310	X		Fill-Comp. 01	SO	1	225970.02	
2	1325	X		Fill-Comp. 02	↓	1	.04	
3	1330	X		Fill-Comp. 03	↓	1	.06	
4								
5								
6								
7								
8								
9								
10								

****LAB USE ONLY BELOW THIS LINE****

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter **NELAC Compliance**

Comments: Container Type: Y N

Comments: Preservation: Y N

Comments: Holding Time: Y N

Comments: Temperature: Y N

Client

Sampled By: *[Signature]* Date/Time: *12/19/12*

Relinquished By: *[Signature]* Date/Time: *12/19/12*

Received By: *[Signature]* Date/Time: *12/19/12*

Received @ Lab By: _____ Date/Time: _____

Total Cost:

P.I.F.





PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Lu Engineers, Inc.

For Lab Project ID
230014

Referencing

Central Ave

Prepared

Friday, January 6, 2023

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

A handwritten signature in blue ink, appearing to read "K. Hansen", is written over a horizontal line. The signature is stylized and overlaps the line.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Friday, January 6, 2023

Page 1 of 6



Client: Lu Engineers, Inc.

Project Reference: Central Ave

Sample Identifier: Fill-Comp-03

Lab Sample ID: 230014-01

Date Sampled: 12/13/2022 13:30

Matrix: TCLP Extract

Date Received: 1/3/2023

TCLP Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Regulatory Limit</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Lead	< 0.500	mg/L	5		1/5/2023 08:53
Method Reference(s):	EPA 6010C EPA 1311 / 3005A				
Preparation Date:	1/4/2023				
Data File:	230105A				



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"H" = Denotes a parameter analyzed outside of holding time.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



CHAIN OF CUSTODY

REPORT TO:

INVOICE TO:

Relog 230014

PROJECT REFERENCE
 Central Ave
 Po # 22000918

CLIENT: Lv Engineers
 ADDRESS: 280 East Road Street Site 70
 CITY: Rochester STATE: NY ZIP: 14604
 PHONE: 585-385-7417
 ATTN: Ben Seida

CLIENT: Same City of Rochester
 ADDRESS: 30 Church Street Room 300B
 CITY: Rochester STATE: NY ZIP: 14614
 PHONE: 585-428-7892
 ATTN: Same Forbes

LAB PROJECT ID: 225970
 Quotation #:
 Email: bseida@lvengineers.com
 Same Forbes @ City of Rochester.gov

WA - Water
 WG - Groundwater
 DW - Drinking Water
 WW - Wastewater
 SO - Soil
 SL - Sludge
 SD - Solid
 PT - Paint
 WP - Wipe
 CK - Caulk
 OL - Oil
 AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPONENTS	GRADES	RELOG "Fill-Comp-03" for TELP Pb, STD TAT per email 2/15/23	MATERIALS	CONTAMINANTS	TEL VOC	TEL SVOC	Total Pest.	Total Herb.	Ignitability	pH	Reactive cyanide	Reactive sulfide	PCRA Metals	PCBs	CP-SI VOCs	CP-SI SVOCs	REMARKS	PARADIGM LAB SAMPLE NUMBER	
12/13/22	13:00	✓	Fill-01	SD	1	✓														Please homogenize composite samples	-01
	13:20	✓	Fill-Camp-01		2	✓														Samples	-02
	13:10	✓	Fill-02		1	✓														Samples have strong gasoline odor	-03
	13:25	✓	Fill-Camp-02		2	✓															-04
	13:05	✓	Fill-03		1	✓															-05
	13:30	✓	Fill-Camp-03		2	✓															-06
	09:15	✓	GP-02		3	✓														Additional material avail. if needed	-07
	09:45	✓	GP-03		3	✓															-08
	10:15	✓	GP-04		3	✓															-09
	12:00	✓	GP-06		3	✓															-10
	13:15	✓	GP-08		3	✓															-11

Turnaround Time
 Availability contingent upon lab approval; additional fees may apply.

Report Supplements
 Standard 5 day None Required
 10 day Batch QC
 Rush 3 day Category A
 Rush 2 day Category B
 Rush 1 day
 Other Other EDD
 please indicate date needed: please indicate EDD needed:

Sampled By: *Ben Seida* Date/Time: 12/13/22 13:45
 Relinquished By: *Ben Seida* Date/Time: 12/15/22 15:01
 Received By: *Ben Seida* Date/Time: 12/15/22 15:01
 Received @ Lab By: *Ben Seida* Date/Time: 12/15/22
 OSC @ 1503 12/15/22
 P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).
Relog 1/3/23 1410
 Total Cost:

1682



Chain of Custody Supplement

2022
Relay 230014

Client: Lu Engineers

Completed by: ZF

Lab Project ID: 225970

Date: 12/15/22

Sample Condition Requirements
Per NELAC/ELAP 210/241/242/243/244

NELAC compliance with the sample condition requirements upon receipt

Condition	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 50.35	<input type="checkbox"/>
Comments			
Transferred to method-compliant container	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Headspace (<1 mL)	<input checked="" type="checkbox"/> VTC	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Preservation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Met
Comments	0.5°C		
Compliant Sample Quantity/Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			

Appendix B

Soil Importation Summary Letter

April 28, 2023

Jane MH Forbes, MPA
Senior Environmental Specialist
City of Rochester - Division of Environmental Quality
30 Church Street Room 300 B
Rochester, NY 14614

**RE: Soil Importation & Tank Sampling
536 Central Avenue UST Closure**

Dear Ms. Forbes,

This letter is intended to provide a summary of fieldwork conducted on April 20th & 21st, 2023, as part of the underground storage tank (UST) and spill closure project located at 536 Central Avenue in the City of Rochester, New York (the Site).

Background

Previous limited excavations of the USTs did not allow access to tank contents for sampling or inspection. The volumes of potential remaining product and contents of the tanks could not be determined; however, based on the GPR signatures and observations made in the field, comparison to the Highland Tank Chart estimates that each is a former 1,000-gallon gasoline UST. Lu Engineers developed a Corrective Action Plan (CAP) in coordination with the City for the excavation and closure of the USTs in accordance with applicable regulatory criteria. It was determined a total of approximately 230-cubic yards (cy) of imported fill material would be necessary to restore the excavation area following removal of the seven (7) USTs.

Fill material generated during storm drain rehabilitation at the City of Rochester's Central Vehicle Maintenance Facility (CVMF) complex located at 945 Mount Read Boulevard was selected for reuse and backfill at 536 Central Avenue following characterization sampling and coordination with the New York State Department of Environmental Conservation (NYSDEC). The material consists primarily of soils and crushed stone, with lesser portions of concrete and various RUCARBs (recognizable, uncontaminated concrete, asphalt, brick, glass, rock, and general fill).

Analytical results for the referenced material did not indicate exceedances of any 6 New York Code Rules and Regulations (NYCRR) Part 375 Unrestricted or Restricted Use criteria. The City filed a 'Notification of Fill Material Reuse' (sample analytical results included) with the NYSDEC in accordance with 6 NYCRR Part 360.13 (Attachment A).

Tank Excavation & Sampling

On April 20, 2023, Lu Engineers and Trec Environmental Inc. (Trec) were on-Site to excavate, inspect, sample, and verify the volumes of each UST. Trec began by utilizing an excavator to remove overburden soils and locate the western sides of the USTs. It is noted that previous investigations only uncovered the eastern sides of the seven (7) USTs; complete excavation and inspection of the USTs was not previously conducted.

Petroleum-impacted soils were not observed during the excavation; it is noted that the limited excavations (maximum depth of approximately 5-feet) performed did not allow access to underlying soils. Large quantities of RUCARBs, including concrete, brick, and masonry, were observed; various inactive fill ports, dispenser lines, and appurtenances were encountered during excavation.

Prior to accessing the tank interiors for sampling, the Rochester Fire Department (RFD) Fire Marshall was on-Site to inspect the work area and grant approval. The following table summarizes the apparent residual contents and volume identified within each UST:

April 28, 2023

Soil Import and Tank Sampling – 536 Central Ave

Tank ID & Dimensions	Residual Tank Contents	Approximate Residual Content Volume	Observations
UST-01 48" x 10'9" (1,000-gallon)	Empty; trace sediment	N/A	N/A
UST-02 48" x 10'9" (1,000-gallon)	Water	~827-gallons	No apparent odor
UST-03 48" x 10'9" (1,000-gallon)	Oily sludge	~90-gallons	Black highly viscous sludge with strong degraded petroleum odor
UST-04 48" x 10'9" (1,000-gallon)	Oily sludge	~173-gallons	Black highly viscous sludge with strong degraded petroleum odor
UST-05 48" x 10'9" (1,000-gallon)	Water & sediment	~317-gallons	No apparent odor
UST-06 48" x 10'9" (1,000-gallon)	Water & sediment	~267-gallons	No apparent odor
UST-07 48" x 10'9" (1,000-gallon)	Water & sediment	~658-gallons	No apparent odor

Samples of the sludge from within UST-03 and 04 were collected for laboratory analysis of VOCs, TCLP metals, PCBs, and flashpoint in accordance with the receiving facility's requirements. A composite water sample was collected for analysis of benzene, lead, and flashpoint. It is anticipated that water from within the tanks will be containerized along with fluids generated during the cleaning process.

Following sampling, all tank access points were covered, and the excavation area was restored using excavated overburden material.

Soil Importation

On April 21, 2023, Lu Engineers was on-Site to oversee the importation, handling, and staging of fill material from CVMF. Ramsey Constructors Inc. (Ramsey) utilized a single dump truck to transport material to the Site under bills of lading signed by the City (Attachment B). The first shipment of fill material was scaled prior to unloading at the Site; the observed weight (22.31-tons) was used as an estimate for each load. A total of eight (8) loads of fill material were imported to the Site totaling approximately 130-cy (roughly 180-tons). Imported material was stockpiled on and covered by a layer of polyethylene sheeting. Refer to the attached photographs.

Based on correspondence with the City, additional importation of fill material from CVMF is not anticipated. The residual required backfill will consist of crushed stone imported during UST closure.

Closure of the USTs is expected to occur the week of May 15th, 2023.

Please contact us with any questions or comments you may have.

Respectfully Submitted,



Gregory L. Andrus, P.G.
Group Leader
Environmental Investigation/Remediation Group



Benjamin Seifert
Geologist; GIS Specialist
Environmental Investigation/Remediation Group

Enclosure(s):
Site Photographs

Attachments:
Attachment A – Notice of Fill Material Reuse
Attachment B – Bills of Lading



Site Photographs
536 Central Avenue



Photo No. 1 Excavator Mobilization



Photo No. 2 Fill-port of UST-02 Identified During Excavation



Photo No. 3 Sorbent Pads Covering UST-02 through 04 Access Points



Photo No. 4 Excavator Uncovering UST-05 through 07



Photo No. 5 Stockpiling of Imported Soils from CVMF



Photo No. 6 Final Imported Soil Stockpile



(08/18)

NOTIFICATION OF FILL MATERIAL REUSE

OFFICIAL USE ONLY

DATE RECEIVED

GENERATOR NUMBER

DESTINATION NUMBER

STAFF INITIALS

6 NYCRR Part 360.13 requires notification to the Department for the use of fill material in the following cases:

- At least five days in advance of transfers of general fill, restricted-use fill and limited-use fill generated in, imported to, or relocated within the City of New York in amounts greater than 10 cubic yards.
- At least five days in advance of delivery of restricted-use fill and limited-use fill in amounts greater than 10 cubic yards anywhere in the State of New York.

Notification to the Department is not required when the destination is a facility authorized under 6 NYCRR Part 361-5; however, the facility may request information required by this form as part of its waste control plan.

1. Generating Site Location and Contact

Project Name: COR STORM & SANITARY SEWER UPGRADE 2023

Location of Generating Site:
 945 MOUNT READ BLVD. ROCHESTER
Street Address City/Town
 MONROE 14606
County Zip Code

Contact: FORBES JANE M
Last First M.I.

Office Phone: (585) 428-7892 **Mobile Phone:** (585) 314-1719

E-mail: Jane.Forbes@CityofRochester.Gov

Company Name: CITY OF ROCHESTER - DEQ

Company Address: 30 CHURCH STREET ROOM 300B
Street Address
 ROCHESTER NEW YORK 14614
City State Zip

2. Fill Material Generated at Remediation Sites

- a. Is the fill material generated from a site being remediated pursuant to a program administered by the Department or EPA? Yes No
- b. If Yes to question 2a, do you have approval from the Department or EPA to reuse this material at the proposed destination? Yes No

If No to question 2b, contact the Department prior to transporting fill material to the destination site.

NOTIFICATION OF FILL MATERIAL REUSE

3. Generating Site Information

- a. Overall quantity of fill material this project will generate 500 Cubic yards
- b. Indicate fill material classifications found on the site:
 General Fill Limited use fill Restricted use fill Other
- c. Quantity of fill material covered under this notification 500 Cubic yards
- d. Indicate fill material classifications proposed to be reused under this notification:
 General Fill Limited use fill Restricted use fill Other
- e. Have other notifications for this project been submitted to the Department? Yes No
If yes, indicate destination region(s). _____
- f. Will additional notifications be sent in the future? Yes No
- g. Estimated start date and end date of overall project: 04/03/2023 07/14/2023
(Start Date) (End Date)
- h. Estimated start and end date of fill transfer for reuse under this notification: 05/01/2023 05/31/2023
(Start Date) (End Date)

4. Fill Material Physical Characteristics

Describe Fill Material

SOIL (80%); STONE (10%); CONCRETE (10%)

Provide a description of the fill material, including estimated composition by percent volume of soil, rock, concrete, brick, ash, cinders, slag, etc.). If more space is needed, attach an additional sheet.

5. Qualified Environmental Professional

Contact: FORBES JANE
Last First M.I.

Office Phone: (585) 428-7892 Mobile Phone: (585) 314-1719

E-mail: Jane.Forbes@CityofRochester.Gov

Company Name: CITY OF ROCHESTER - DEQ

Company Address: 30 CHURCH STREET ROOM 300B
Street Address
ROCHESTER, NEW YORK 14614
City State Zip

NOTIFICATION OF FILL MATERIAL TRANSPORT

6. Destination Site Location and Contact

Project Name: 536 CENTRAL AVENUE - TANK CLOSURE

Location of Destination Site: 536 CENTRAL AVENUE ROCHESTER
Street Address City/Town

MONROE 14605
County Zip Code

Contact: FORBES JANE M
Last First M.I.

Phone: (585) 428-7892 Mobile Phone: (585) 314-1719

E-mail: Jane.Forbes@CityofRochester.Gov

Company Name: CITY OF ROCHESTER - DEQ

Company Address: 30 CHURCH STREET ROOM 300B
Street Address

ROCHESTER NEW YORK 14614
City State Zip

7. Destination Site Information

- a. Quantity of fill material required for this project? 500 Cubic Yards
- b. Type(s) of fill material to be used (check all that apply):
 General Fill Limited use fill Restricted use fill Other
- c. For restricted- and limited-use fill, has a local building permit or other municipal authorization been issued for this project that includes need for fill? Yes No
- d. Are additional fill material notifications to be submitted for this project? Yes No
- e. Describe the area(s) on the site where this fill material is to be used:

FILL MATERIAL WILL BE USED TO PARTIALLY BACKFILL AN UNDERGROUND STORAGE TANK EXCAVATION. FUTURE DEVELOPMENT AT THE SITE IN THE AREA OF THE FILL IS FOR USE AS A PARKING LOT.

Please note that both the generator and the receiver of the fill material must retain records of fill material quantities, with analytical data, for a minimum of three years after fill material is removed or received, as applicable. To demonstrate compliance with applicable requirements of this notification, a log of all loads of fill material and corresponding tracking documents should be maintained as part of these records. The Department reserves the right to inspect any site of generation or placement of fill material.

Transport of fill material that originates in the City of New York, or limited-use fill and restricted-use fill generated outside of New York City, is also subject to the requirements of Part 364.

NOTIFICATION OF FILL MATERIAL REUSE

8. Certification by Qualified Environmental Professional

I certify, under penalty of law that the data and other information provided in this notification have been prepared under my direction and supervision in compliance with the system designed to ensure that qualified personnel properly and accurately gather and evaluate this information. I am aware that any false statement I make in this notification is punishable pursuant to Section 71-2703(2) of the Environmental Conservation Law and Section 210.45 of the Penal Law.

Name: THURSTON HAROLD
Last Name First Name M.I.

Signature:  4/14/23
Date

License Information: PG # 2224 NC
Number State

Profession: Engineer Geologist Other (see 6 NYCRR 360.2(b)(213))

(Engineer or Geologist seal above)

In the event the Qualified Environmental Professional identified in Item 5 above is not a Professional Engineer or Geologist licensed in New York State, the QEP's basis for credential must be attached to this form.

All notifications must be sent to the Regional Office of the Department in which the destination is located (see <http://www.dec.ny.gov/about/558.html>).

Pursuant to 6 NYCRR Subdivision 360.13(g), all notifications must be made on forms and in a manner acceptable to the Department. Before submitting this notification, please ensure this form is complete and all supporting documentation is formatted in a manner acceptable to the Department as recommended in the checklist below.

- Completed Form.** All fields of the application are complete, including the certification.
- Analytical Data Comparison.** Analytical data is compared with the following, for the respective fill material type for the receiving site, and exceedances clearly identified as follows (see also 6 NYCRR Part 360.13(f)):
 - General Fill: protection of groundwater and residential soil cleanup objectives found in 6 NYCRR Part 375, Section 375-6.8.
 - Restricted-Use Fill: In addition to general fill requirements, benzo (a) pyrene equivalent.
 - Limited-Use Fill: In addition to restricted use requirements, commercial soil cleanup objectives for metals found in 6 NYCRR Part 375, Section 375-6.8.
- Summary Table - Recommended Formatting.** Summary tables are attached that show standards and analytes on the left; sample IDs, depths and locations on the top; and detection limits are indicated for those constituents that are listed as 'non-detects'. The summary table should list all analytes. All data for the generating site should be provided, even if not to be transported, as part of this notification.

Soil Sample Analytical Results Detected Parameters ¹ :	Sample ID:						CVMF-01	
	Sample Type:						Grab	Composite
	Date:						4/4/2023	
	NYSDEC Part 375 SCOs ²							Result
	Unrestricted	Residential	Restricted Res.	Commerical	Industrial	Prot. of GW	Result	Q
1,1,1-Trichloroethane	0.68	100	100	500	1,000	0.68	< 0.00811	NA
1,1,2,2-Tetrachloroethane	--	--	--	--	--	--	< 0.00811	NA
1,1,2-Trichloroethane	--	--	--	--	--	--	< 0.00811	NA
1,1-Dichloroethane	0.27	19	26	240	480	0.27	< 0.00811	NA
1,1,2-Dichloroethane	0.3	100.0	100.0	500	1,000	0.33	< 0.00811	NA
1,2,3-Trichlorobenzene	--	--	--	--	--	--	< 0.0203	NA
1,2,4-Trichlorobenzene	--	--	--	--	--	--	< 0.0203	NA
1,2-Dibromo-3-Chloropropane	--	--	--	--	--	--	< 0.0406	NA
1,2-Dibromoethane	--	--	--	--	--	--	< 0.00811	NA
1,2-Dichlorobenzene	1.1	100	100	500	1,000	1.1	< 0.00811	NA
1,2-Dichloroethane	0.02	2.3	3.1	30	60	0.02	< 0.00811	NA
1,2-Dichloropropane	--	--	--	--	--	--	< 0.00811	NA
1,3-Dichlorobenzene	2.4	17	49	280	560	2.4	< 0.00811	NA
1,4-Dichlorobenzene	1.8	9.8	13	130	250	1.8	< 0.00811	NA
1,4-Dioxane	0.1	9.9	13	130	250	0.1	< 0.0406	NA
2-Butanone	0.12	100	100	500	1,000	0.12	< 0.0406	NA
2-Hexanone	--	--	--	--	--	--	< 0.0203	NA
4-Methyl-2-pentanone	--	--	--	--	--	--	< 0.0203	NA
Acetone	0.05	100	100	500	1,000	0.05	< 0.0406	NA
Benzene	0.06	2.9	4.8	44	89	0.06	< 0.00811	NA
Bromochloromethane	--	--	--	--	--	--	< 0.0203	NA
Bromodichloromethane	--	--	--	--	--	--	< 0.00811	NA
Bromoform	--	--	--	--	--	--	< 0.0203	NA
Bromomethane	--	--	--	--	--	--	< 0.00811	NA
Carbon disulfide	--	--	--	--	--	--	< 0.00811	NA
Carbon Tetrachloride	0.76	1.4	2.4	22	44	0.76	< 0.00811	NA
Chlorobenzene	1.1	100	100	500	1,000	1.1	< 0.00811	NA
Chloroethane	--	--	--	--	--	--	< 0.00811	NA
Chloroform	0.37	10	49	350	700	0.37	< 0.00811	NA
Chloromethane	--	--	--	--	--	--	< 0.00811	NA
cis-1,2-Dichloroethene	0.25	59	100	500	1,000	0.25	< 0.00811	NA
cis-1,3-Dichloropropene	--	--	--	--	--	--	< 0.00811	NA
Cyclohexane	--	--	--	--	--	--	< 0.0406	NA
Dibromochloromethane	--	--	--	--	--	--	< 0.00811	NA
Dichlorodifluoromethane	--	--	--	--	--	--	< 0.00811	NA
Ethylbenzene	1.0	30	41	390	780	1.0	< 0.00811	NA
Freon 113	--	--	--	--	--	--	< 0.00811	NA
Isopropylbenzene	--	--	--	--	--	--	< 0.00811	NA
m,p-Xylene	0.26	100	100	500	1,000	1.6	< 0.00811	NA
Methyl acetate	--	--	--	--	--	--	< 0.00811	NA
Methyl tert-butyl Ether	0.93	62	100	500	1,000	0.93	< 0.00811	NA
Methylcyclohexane	--	--	--	--	--	--	< 0.00811	NA
Methylene chloride	0.05	51	100	500	1,000	0.05	< 0.0203	NA
o-Xylene	0.26	100	100	500	1,000	1.6	< 0.00811	NA
Styrene	--	--	--	--	--	--	< 0.0203	NA
Tetrachloroethene	1.3	5.5	19	150	300	1.3	< 0.00811	NA
Toluene	0.7	100	100	500	1,000	0.7	< 0.00811	NA
trans-1,2-Dichloroethene	0.19	100	100	500	1,000	0.19	< 0.00811	NA
trans-1,3-Dichloropropene	--	--	--	--	--	--	< 0.00811	NA
Trichloroethene	0.47	10	21	200	400	0.47	< 0.00811	NA
Trichlorofluoromethane	--	3	--	--	--	--	< 0.00811	NA
Vinyl chloride	--	--	--	--	--	--	< 0.00811	NA

Notes:

- 1 - All values presented in parts per million (ppm)
- 2 - 6 NYCRR Part 375 Soil Cleanup Objectives
- < Substance not identified above the minimum laboratory quantitation limit
- NA: Sample not analyzed for referenced parameter

	Exceeds Unrestricted Use SCOs
	Exceeds Residential Use SCOs
	Exceeds Restricted Residential Use SCOs
	Exceeds Commercial Use SCOs
	Exceeds Industrial Use SCOs

City of Rochester - CVMF Catch Basin Rehabilitation

945 Mt Read Boulevard

Soil Sample Analytical Results

Soil Sample Analytical Results Detected Parameters ¹ :	Sample ID:						CVMF-01			
	Sample Type:						Grab	Composite		
	Date:						4/4/2023			
EPA 8270-SVOCs	Part 375/CP-51 SCOs ²						Result	Q	Result	Q
	Unrestricted	Residential	Rest. Residential	Commercial	Industrial	Prot. of GW				
1,1-Biphenyl	--	--	--	--	--	--	NA	<	0.316	
1,2,4,5-Tetrachlorobenzene	--	--	--	--	--	--	NA	<	0.316	
1,2,4-Trichlorobenzene	--	--	--	--	--	--	NA	<	0.316	
1,2-Dichlorobenzene	--	--	--	--	--	--	NA	<	0.316	
1,3-Dichlorobenzene	--	--	--	--	--	--	NA	<	0.316	
1,4-Dichlorobenzene	--	--	--	--	--	--	NA	<	0.316	
2,2-Oxybis (1-chloropropane)	--	--	--	--	--	--	NA	<	0.316	
2,3,4,6-Tetrachlorophenol	--	--	--	--	--	--	NA	<	0.316	
2,4,5-Trichlorophenol	--	--	--	--	--	--	NA	<	0.316	
2,4,6-Trichlorophenol	--	--	--	--	--	--	NA	<	0.316	
2,4-Dichlorophenol	--	--	--	--	--	--	NA	<	0.316	
2,4-Dimethylphenol	--	--	--	--	--	--	NA	<	0.316	
2,4-Dinitrophenol	--	--	--	--	--	--	NA	<	1.27	
2,4-Dinitrotoluene	--	--	--	--	--	--	NA	<	0.316	
2,6-Dinitrotoluene	--	--	--	--	--	--	NA	<	0.316	
2-Chloronaphthalene	--	--	--	--	--	--	NA	<	0.316	
2-Chlorophenol	--	--	--	--	--	--	NA	<	0.316	
2-Methylnaphthalene	--	--	--	--	--	--	NA	<	0.316	
2-Methylphenol	--	--	--	--	--	--	NA	<	0.316	
2-Nitroaniline	--	--	--	--	--	--	NA	<	0.316	
2-Nitrophenol	--	--	--	--	--	--	NA	<	0.316	
3&4-Methylphenol	--	--	--	--	--	--	NA	<	0.316	
3,3'-Dichlorobenzidine	--	--	--	--	--	--	NA	<	0.316	
3-Nitroaniline	--	--	--	--	--	--	NA	<	0.316	
4,6-Dinitro-2-methylphenol	--	--	--	--	--	--	NA	<	0.423	
4-Bromophenyl phenyl ether	--	--	--	--	--	--	NA	<	0.316	
4-Chloro-3-methylphenol	--	--	--	--	--	--	NA	<	0.316	
4-Chloroaniline	--	--	--	--	--	--	NA	<	0.316	
4-Chlorophenyl phenyl ether	--	--	--	--	--	--	NA	<	0.316	
4-Nitroaniline	--	--	--	--	--	--	NA	<	0.316	
4-Nitrophenol	--	--	--	--	--	--	NA	<	0.316	
Acenaphthene	20	100	100	500	1,000	98	NA	<	0.316	
Acenaphthylene	100	100	100	500	1,000	107	NA	<	0.316	
Acetophenone	--	--	--	--	--	--	NA	<	0.316	
Anthracene	100	100	100	500	1,000	1,000	NA	<	0.316	
Atrazine	--	--	--	--	--	--	NA	<	0.316	
Benzaldehyde	--	--	--	--	--	--	NA	<	0.316	
Benzo (a) anthracene	1.0	1.0	1.0	5.6	11	1.0	NA	<	0.316	
Benzo (a) pyrene	1.1	1.0	1.0	1.0	1.1	22	NA	<	0.316	
Benzo (b) fluoranthene	1.2	1.0	1.0	5.6	11	1.7	NA	<	0.316	
Benzo (g,h,i) perylene	100	100	100	500	1,000	1,000	NA	<	0.316	
Benzo (k) fluoranthene	0.8	1.0	3.9	56	110	1.7	NA	<	0.316	
Bis (2-chloroethoxy) methane	--	--	--	--	--	--	NA	<	0.316	
Bis (2-chloroethyl) ether	--	--	--	--	--	--	NA	<	0.316	
Bis (2-ethylhexyl) phthalate	--	--	--	--	--	--	NA	<	0.316	
Butylbenzylphthalate	--	--	--	--	--	--	NA	<	0.316	
Caprolactam	--	--	--	--	--	--	NA	<	0.316	
Carbazole	--	--	--	--	--	--	NA	<	0.316	
Chrysene	1.0	1.0	3.9	56	110	1.7	NA	<	0.316	
Dibenz (a,h) anthracene	0.33	0.33	0.33	0.56	1.1	1,000	NA	<	0.316	
Dibenzofuran	--	--	--	--	--	--	NA	<	0.316	
Diethyl phthalate	--	--	--	--	--	--	NA	<	0.316	
Dimethyl phthalate	--	--	--	--	--	--	NA	<	0.316	
Di-n-butyl phthalate	--	--	--	--	--	--	NA	<	0.316	
Di-n-octylphthalate	--	--	--	--	--	--	NA	<	0.316	
Fluoranthene	100	100	100	500	1,000	1,000	NA	<	0.316	
Fluorene	30	100	100	500	1,000	386	NA	<	0.316	
Hexachlorobenzene	--	--	--	--	--	--	NA	<	0.316	
Hexachlorobutadiene	--	--	--	--	--	--	NA	<	0.316	
Hexachlorocyclopentadiene	--	--	--	--	--	--	NA	<	1.27	
Hexachloroethane	--	--	--	--	--	--	NA	<	0.316	
Indeno (1,2,3-cd) pyrene	0.5	0.5	0.5	5.6	11	8.2	NA	<	0.316	
Isophorone	--	--	--	--	--	--	NA	<	0.316	
Naphthalene	12	100	100	500	1,000	12	NA	<	0.316	
Nitrobenzene	--	--	--	--	--	--	NA	<	0.316	
N-Nitroso-di-n-propylamine	--	--	--	--	--	--	NA	<	0.316	
N-Nitrosodiphenylamine	--	--	--	--	--	--	NA	<	0.316	
Pentachlorophenol	0.8	2.4	6.7	6.7	55	0.8	NA	<	0.633	
Phenanthrene	100	100	100	500	1,000	1,000	NA	<	0.316	
Phenol	0.33	100	100	500	1,000	0.33	NA	<	0.316	
Pyrene	100	100	100	500	1,000	1,000	NA	<	0.316	
Pyridine	--	--	--	--	--	--	NA	<	0.316	

Notes:

1 - All values presented in parts per million (ppm)

2 - 6 NYCRR Part 375 Soil Cleanup Objectives

< Substance not identified above the minimum laboratory quantitation limit

NA: Sample not analyzed for referenced parameter

	Exceeds Unrestricted Use SCOs
	Exceeds Residential Use SCOs
	Exceeds Restricted Residential Use SCOs
	Exceeds Commercial Use SCOs
	Exceeds Industrial Use SCOs

Soil Sample Analytical Results Detected Parameters ¹ :	Sample ID: CVMF-01						Sample Depth: Grab Composite		
	Date: 4/4/2023								
	Part 375 SCOs ²							Result	Q
	Unrestricted	Residential	Restricted Res.	Commerical	Industrial	Prot. of GW	Result	Q	
EPA 6010 - Metals									
Arsenic	13	16	16	16	16	16	NA	3.68 DM	
Barium	350	350	400	400	10,000	820	NA	64.8 M	
Cadmium	2.5	2.5	4.3	9.3	60	7.5	NA	< 0.287 M	
Chromium	30	36	180	1,500	6,800	--	NA	13.0 M	
Lead	63	400	400	1,000	3,900	450	NA	10.3 M	
Selenium	3.9	36	180	1,500	6,800	4.0	NA	< 1.15 M	
Silver	2.0	36	180	1,500	6,800	8.3	NA	< 0.575 M	
Mercury	0.18	0.81	0.81	2.8	5.7	0.73	NA	0.043	
EPA 8082 - PCBs	Unrestricted	Residential	Restricted Res.	Commerical	Industrial	Prot. of GW	Result	Q	
PCB-1016	0.1	1.0	1.0	1.0	25	3.2	NA	< 0.184	
PCB-1221	0.1	1.0	1.0	1.0	25	3.2	NA	< 0.184	
PCB-1232	0.1	1.0	1.0	1.0	25	3.2	NA	< 0.184	
PCB-1242	0.1	1.0	1.0	1.0	25	3.2	NA	< 0.184	
PCB-1248	0.1	1.0	1.0	1.0	25	3.2	NA	< 0.184	
PCB-1254	0.1	1.0	1.0	1.0	25	3.2	NA	< 0.184	
PCB-1260	0.1	1.0	1.0	1.0	25	3.2	NA	< 0.184	
PCB-1262	0.1	1.0	1.0	1.0	25	3.2	NA	< 0.184	
PCB-1268	0.1	1.0	1.0	1.0	25	3.2	NA	< 0.184	
EPA 8151 - Pesticides	Unrestricted	Residential	Restricted Res.	Commerical	Industrial	Prot. of GW	Result	Q	
4,4-DDD	0.0033	2.6	13	92	180	14	NA	< 0.0041	
4,4-DDE	0.0033	1.8	8.9	62	120	17	NA	< 0.0041	
4,4-DDT	0.0033	1.7	7.9	47	94	136	NA	< 0.0041	
Aldrin	0.005	0.019	0.097	0.68	1.4	0.19	NA	< 0.0021	
alpha-BHC	0.02	0.097	0.48	3.4	6.8	0.02	NA	< 0.0021	
beta-BHC	0.036	0.072	0.36	3.0	14	0.09	NA	< 0.0021	
Chlordane	0.094	0.91	4.2	24	47	2.9	NA	< 0.21	
cis-Chlordane	--	--	--	--	--	--	NA	< 0.0021	
delta-BHC	0.04	100	100	500	1,000	0.25	NA	< 0.0021	
Dieldrin	0.005	0.039	0.2	1.4	2.8	0.1	NA	< 0.0041	
Endosulfan I	2.4	4.8	24	200	920	102	NA	< 0.0021	
Endosulfan II	2.4	4.8	24	200	920	102	NA	< 0.0041	
Endosulfan Sulfate	2.4	4.8	24	200	920	102	NA	< 0.0041	
Endrin	0.014	2.2	11	89	410	0.06	NA	< 0.0041	
Endrin Aldehyde	--	--	--	--	--	--	NA	< 0.0041	
Endrin Ketone	--	--	--	--	--	--	NA	< 0.0041	
gamma-BHC (Lindane)	0.1	0.28	1.3	9.2	23	0.1	NA	< 0.0021	
Heptachlor	0.042	0.42	2.1	15	29	0.38	NA	< 0.0021	
Heptachlor Epoxide	--	--	--	--	--	--	NA	< 0.0025	
Methoxychlor	--	--	--	--	--	--	NA	< 0.021	
Toxaphene	--	--	--	--	--	--	NA	< 0.21	
trans-Chlordane	--	--	--	--	--	--	NA	< 0.0021	
EPA 8321 - Herbicides									
2,4,5-T	--	--	--	--	--	--	NA	< 0.376	
2,4,5-TP (Silvex)	3.8	58	100	500	1,000	3.8	NA	< 0.376	
2,4-D	--	--	--	--	--	--	NA	< 1.50 M	
EPA 1030-Ignitability									
Temperature (°C)				--			NA	Not Ignitable	
Corrosivity									
pH				--			NA	7.86 @ 22.6 °C	
Reactivity									
Cyanide				--			NA	< 1.00	
Cyanide				--			NA	< 10.0	

Notes:
 1 - All values presented in parts per million (ppm)
 2 - 6 NYCRR Part 375 Soil Cleanup Objectives
 < Substance not identified above the minimum laboratory quantitation limit
 NA: Sample not analyzed for referenced parameter
 D: Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
 M: Matrix spike recoveries outside QC limits. Matrix bias indicated.

	Exceeds Unrestricted Use SCOs
	Exceeds Residential Use SCOs
	Exceeds Restricted Residential Use SCOs
	Exceeds Commercial Use SCOs
	Exceeds Industrial Use SCOs



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Lu Engineers, Inc.

For Lab Project ID

231289

Referencing

CVMF-4265

Prepared

Wednesday, April 12, 2023

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Emily Faumen

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, April 12, 2023

Page 1 of 19



Client: Lu Engineers, Inc.

Project Reference: CVMF-4265

Sample Identifier: CVMF-01 Grab

Lab Sample ID: 231289-01

Matrix: Soil

Date Sampled: 4/4/2023 11:40

Date Received 4/4/2023

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.11	ug/Kg		4/7/2023 13:38
1,1,2,2-Tetrachloroethane	< 8.11	ug/Kg		4/7/2023 13:38
1,1,2-Trichloroethane	< 8.11	ug/Kg		4/7/2023 13:38
1,1-Dichloroethane	< 8.11	ug/Kg		4/7/2023 13:38
1,1-Dichloroethene	< 8.11	ug/Kg		4/7/2023 13:38
1,2,3-Trichlorobenzene	< 20.3	ug/Kg		4/7/2023 13:38
1,2,4-Trichlorobenzene	< 20.3	ug/Kg		4/7/2023 13:38
1,2-Dibromo-3-Chloropropane	< 40.6	ug/Kg		4/7/2023 13:38
1,2-Dibromoethane	< 8.11	ug/Kg		4/7/2023 13:38
1,2-Dichlorobenzene	< 8.11	ug/Kg		4/7/2023 13:38
1,2-Dichloroethane	< 8.11	ug/Kg		4/7/2023 13:38
1,2-Dichloropropane	< 8.11	ug/Kg		4/7/2023 13:38
1,3-Dichlorobenzene	< 8.11	ug/Kg		4/7/2023 13:38
1,4-Dichlorobenzene	< 8.11	ug/Kg		4/7/2023 13:38
1,4-Dioxane	< 40.6	ug/Kg		4/7/2023 13:38
2-Butanone	< 40.6	ug/Kg		4/7/2023 13:38
2-Hexanone	< 20.3	ug/Kg		4/7/2023 13:38
4-Methyl-2-pentanone	< 20.3	ug/Kg		4/7/2023 13:38
Acetone	< 40.6	ug/Kg		4/7/2023 13:38
Benzene	< 8.11	ug/Kg		4/7/2023 13:38
Bromochloromethane	< 20.3	ug/Kg		4/7/2023 13:38
Bromodichloromethane	< 8.11	ug/Kg		4/7/2023 13:38
Bromoform	< 20.3	ug/Kg		4/7/2023 13:38
Bromomethane	< 8.11	ug/Kg		4/7/2023 13:38
Carbon disulfide	< 8.11	ug/Kg		4/7/2023 13:38
Carbon Tetrachloride	< 8.11	ug/Kg		4/7/2023 13:38
Chlorobenzene	< 8.11	ug/Kg		4/7/2023 13:38
Chloroethane	< 8.11	ug/Kg		4/7/2023 13:38

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: CVMF-4265

Sample Identifier: CVMF-01 Grab

Lab Sample ID: 231289-01

Date Sampled: 4/4/2023 11:40

Matrix: Soil

Date Received 4/4/2023

Chloroform	< 8.11	ug/Kg	4/7/2023	13:38
Chloromethane	< 8.11	ug/Kg	4/7/2023	13:38
cis-1,2-Dichloroethene	< 8.11	ug/Kg	4/7/2023	13:38
cis-1,3-Dichloropropene	< 8.11	ug/Kg	4/7/2023	13:38
Cyclohexane	< 40.6	ug/Kg	4/7/2023	13:38
Dibromochloromethane	< 8.11	ug/Kg	4/7/2023	13:38
Dichlorodifluoromethane	< 8.11	ug/Kg	4/7/2023	13:38
Ethylbenzene	< 8.11	ug/Kg	4/7/2023	13:38
Freon 113	< 8.11	ug/Kg	4/7/2023	13:38
Isopropylbenzene	< 8.11	ug/Kg	4/7/2023	13:38
m,p-Xylene	< 8.11	ug/Kg	4/7/2023	13:38
Methyl acetate	< 8.11	ug/Kg	4/7/2023	13:38
Methyl tert-butyl Ether	< 8.11	ug/Kg	4/7/2023	13:38
Methylcyclohexane	< 8.11	ug/Kg	4/7/2023	13:38
Methylene chloride	< 20.3	ug/Kg	4/7/2023	13:38
o-Xylene	< 8.11	ug/Kg	4/7/2023	13:38
Styrene	< 20.3	ug/Kg	4/7/2023	13:38
Tetrachloroethene	< 8.11	ug/Kg	4/7/2023	13:38
Toluene	< 8.11	ug/Kg	4/7/2023	13:38
trans-1,2-Dichloroethene	< 8.11	ug/Kg	4/7/2023	13:38
trans-1,3-Dichloropropene	< 8.11	ug/Kg	4/7/2023	13:38
Trichloroethene	< 8.11	ug/Kg	4/7/2023	13:38
Trichlorofluoromethane	< 8.11	ug/Kg	4/7/2023	13:38
Vinyl chloride	< 8.11	ug/Kg	4/7/2023	13:38

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: CVMF-4265

Sample Identifier: CVMF-01 Grab

Lab Sample ID: 231289-01

Date Sampled: 4/4/2023 11:40

Matrix: Soil

Date Received 4/4/2023

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	101	72.3 - 128		4/7/2023 13:38
4-Bromofluorobenzene	91.5	70 - 123		4/7/2023 13:38
Pentafluorobenzene	99.4	80.7 - 124		4/7/2023 13:38
Toluene-D8	98.7	82.1 - 121		4/7/2023 13:38

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: z16072.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.



Client: Lu Engineers, Inc.

Project Reference: CVMF-4265

Sample Identifier: CVMF-01 Composite

Lab Sample ID: 231289-02

Date Sampled: 4/4/2023 11:40

Matrix: Soil

Date Received 4/4/2023

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-T	<376	ug/Kg		4/10/2023
2,4,5-TP (Silvex)	<376	ug/Kg		4/10/2023
2,4-D	<1500	ug/Kg	M	4/10/2023

Method Reference(s): EPA 8321B
Subcontractor ELAP ID: 10709

Ignitability

Analyte	Result	Units	Qualifier	Date Analyzed
Ignitability	No Burn	mm / sec		4/10/2023

Method Reference(s): EPA 1030

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	0.0430	mg/Kg		4/6/2023

Method Reference(s): EPA 7471B
Subcontractor ELAP ID: 10709

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	3.68	mg/Kg	DM	4/11/2023 09:28
Barium	64.8	mg/Kg	M	4/11/2023 09:28
Cadmium	< 0.287	mg/Kg	M	4/11/2023 09:28
Chromium	13.0	mg/Kg	M	4/11/2023 09:28
Lead	10.3	mg/Kg	M	4/11/2023 09:28
Selenium	< 1.15	mg/Kg	M	4/11/2023 09:28
Silver	< 0.575	mg/Kg		4/11/2023 09:28

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 4/6/2023
Data File: 230411A

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: **Lu Engineers, Inc.**

Project Reference: CVMF-4265

Sample Identifier: CVMF-01 Composite

Lab Sample ID: 231289-02

Date Sampled: 4/4/2023 11:40

Matrix: Soil

Date Received 4/4/2023

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.184	mg/Kg		4/6/2023 17:37
PCB-1221	< 0.184	mg/Kg		4/6/2023 17:37
PCB-1232	< 0.184	mg/Kg		4/6/2023 17:37
PCB-1242	< 0.184	mg/Kg		4/6/2023 17:37
PCB-1248	< 0.184	mg/Kg		4/6/2023 17:37
PCB-1254	< 0.184	mg/Kg		4/6/2023 17:37
PCB-1260	< 0.184	mg/Kg		4/6/2023 17:37
PCB-1262	< 0.184	mg/Kg		4/6/2023 17:37
PCB-1268	< 0.184	mg/Kg		4/6/2023 17:37

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	29.6	10 - 110		4/6/2023 17:37

Method Reference(s): EPA 8082A
EPA 3546
Preparation Date: 4/6/2023

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	7.86 @ 22.6 C	S.U.		4/7/2023 12:44

Method Reference(s): EPA 9045D

Reactive Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Cyanide	<1.0	mg/Kg		4/10/2023

Method Reference(s): EPA 7.3.3.2
Subcontractor ELAP ID: 10709

ELAP does not offer this test for approval as part of their laboratory certification program.
This sample has been reported as received.



Client: **Lu Engineers, Inc.**

Project Reference: CVMF-4265

Sample Identifier: CVMF-01 Composite

Lab Sample ID: 231289-02

Date Sampled: 4/4/2023 11:40

Matrix: Soil

Date Received 4/4/2023

Reactive Sulfide

Analyte	Result	Units	Qualifier	Date Analyzed
Reactivity, Sulfide	<10	mg/Kg		4/11/2023

Method Reference(s): EPA 7.3.4.2

Subcontractor ELAP ID: 10709

ELAP does not offer this test for approval as part of their laboratory certification program.

This sample has been reported as received.

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 316	ug/Kg		4/7/2023 18:45
1,2,4,5-Tetrachlorobenzene	< 316	ug/Kg		4/7/2023 18:45
1,2,4-Trichlorobenzene	< 316	ug/Kg		4/7/2023 18:45
1,2-Dichlorobenzene	< 316	ug/Kg		4/7/2023 18:45
1,3-Dichlorobenzene	< 316	ug/Kg		4/7/2023 18:45
1,4-Dichlorobenzene	< 316	ug/Kg		4/7/2023 18:45
2,2-Oxybis (1-chloropropane)	< 316	ug/Kg		4/7/2023 18:45
2,3,4,6-Tetrachlorophenol	< 316	ug/Kg		4/7/2023 18:45
2,4,5-Trichlorophenol	< 316	ug/Kg		4/7/2023 18:45
2,4,6-Trichlorophenol	< 316	ug/Kg		4/7/2023 18:45
2,4-Dichlorophenol	< 316	ug/Kg		4/7/2023 18:45
2,4-Dimethylphenol	< 316	ug/Kg		4/7/2023 18:45
2,4-Dinitrophenol	< 1270	ug/Kg		4/7/2023 18:45
2,4-Dinitrotoluene	< 316	ug/Kg		4/7/2023 18:45
2,6-Dinitrotoluene	< 316	ug/Kg		4/7/2023 18:45
2-Chloronaphthalene	< 316	ug/Kg		4/7/2023 18:45
2-Chlorophenol	< 316	ug/Kg		4/7/2023 18:45
2-Methylnaphthalene	< 316	ug/Kg		4/7/2023 18:45
2-Methylphenol	< 316	ug/Kg		4/7/2023 18:45
2-Nitroaniline	< 316	ug/Kg		4/7/2023 18:45
2-Nitrophenol	< 316	ug/Kg		4/7/2023 18:45

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: CVMF-4265

Sample Identifier: CVMF-01 Composite

Lab Sample ID: 231289-02

Date Sampled: 4/4/2023 11:40

Matrix: Soil

Date Received 4/4/2023

3&4-Methylphenol	< 316	ug/Kg	4/7/2023 18:45
3,3'-Dichlorobenzidine	< 316	ug/Kg	4/7/2023 18:45
3-Nitroaniline	< 316	ug/Kg	4/7/2023 18:45
4,6-Dinitro-2-methylphenol	< 423	ug/Kg	4/7/2023 18:45
4-Bromophenyl phenyl ether	< 316	ug/Kg	4/7/2023 18:45
4-Chloro-3-methylphenol	< 316	ug/Kg	4/7/2023 18:45
4-Chloroaniline	< 316	ug/Kg	4/7/2023 18:45
4-Chlorophenyl phenyl ether	< 316	ug/Kg	4/7/2023 18:45
4-Nitroaniline	< 316	ug/Kg	4/7/2023 18:45
4-Nitrophenol	< 316	ug/Kg	4/7/2023 18:45
Acenaphthene	< 316	ug/Kg	4/7/2023 18:45
Acenaphthylene	< 316	ug/Kg	4/7/2023 18:45
Acetophenone	< 316	ug/Kg	4/7/2023 18:45
Anthracene	< 316	ug/Kg	4/7/2023 18:45
Atrazine	< 316	ug/Kg	4/7/2023 18:45
Benzaldehyde	< 316	ug/Kg	4/7/2023 18:45
Benzo (a) anthracene	< 316	ug/Kg	4/7/2023 18:45
Benzo (a) pyrene	< 316	ug/Kg	4/7/2023 18:45
Benzo (b) fluoranthene	< 316	ug/Kg	4/7/2023 18:45
Benzo (g,h,i) perylene	< 316	ug/Kg	4/7/2023 18:45
Benzo (k) fluoranthene	< 316	ug/Kg	4/7/2023 18:45
Bis (2-chloroethoxy) methane	< 316	ug/Kg	4/7/2023 18:45
Bis (2-chloroethyl) ether	< 316	ug/Kg	4/7/2023 18:45
Bis (2-ethylhexyl) phthalate	< 316	ug/Kg	4/7/2023 18:45
Butylbenzylphthalate	< 316	ug/Kg	4/7/2023 18:45
Caprolactam	< 316	ug/Kg	4/7/2023 18:45
Carbazole	< 316	ug/Kg	4/7/2023 18:45
Chrysene	< 316	ug/Kg	4/7/2023 18:45
Dibenz (a,h) anthracene	< 316	ug/Kg	4/7/2023 18:45
Dibenzofuran	< 316	ug/Kg	4/7/2023 18:45

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: CVMF-4265

Sample Identifier: CVMF-01 Composite

Lab Sample ID: 231289-02

Date Sampled: 4/4/2023 11:40

Matrix: Soil

Date Received 4/4/2023

Diethyl phthalate	< 316	ug/Kg	4/7/2023 18:45
Dimethyl phthalate	< 316	ug/Kg	4/7/2023 18:45
Di-n-butyl phthalate	< 316	ug/Kg	4/7/2023 18:45
Di-n-octylphthalate	< 316	ug/Kg	4/7/2023 18:45
Fluoranthene	< 316	ug/Kg	4/7/2023 18:45
Fluorene	< 316	ug/Kg	4/7/2023 18:45
Hexachlorobenzene	< 316	ug/Kg	4/7/2023 18:45
Hexachlorobutadiene	< 316	ug/Kg	4/7/2023 18:45
Hexachlorocyclopentadiene	< 1270	ug/Kg	4/7/2023 18:45
Hexachloroethane	< 316	ug/Kg	4/7/2023 18:45
Indeno (1,2,3-cd) pyrene	< 316	ug/Kg	4/7/2023 18:45
Isophorone	< 316	ug/Kg	4/7/2023 18:45
Naphthalene	< 316	ug/Kg	4/7/2023 18:45
Nitrobenzene	< 316	ug/Kg	4/7/2023 18:45
N-Nitroso-di-n-propylamine	< 316	ug/Kg	4/7/2023 18:45
N-Nitrosodiphenylamine	< 316	ug/Kg	4/7/2023 18:45
Pentachlorophenol	< 633	ug/Kg	4/7/2023 18:45
Phenanthrene	< 316	ug/Kg	4/7/2023 18:45
Phenol	< 316	ug/Kg	4/7/2023 18:45
Pyrene	< 316	ug/Kg	4/7/2023 18:45
Pyridine	< 316	ug/Kg	4/7/2023 18:45

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: **Lu Engineers, Inc.**

Project Reference: CVMF-4265

Sample Identifier: CVMF-01 Composite

Lab Sample ID: 231289-02

Date Sampled: 4/4/2023 11:40

Matrix: Soil

Date Received 4/4/2023

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	73.5	35.1 - 95.9		4/7/2023 18:45
2-Fluorobiphenyl	73.9	10 - 156		4/7/2023 18:45
2-Fluorophenol	67.0	36 - 81.3		4/7/2023 18:45
Nitrobenzene-d5	64.8	31.5 - 83.8		4/7/2023 18:45
Phenol-d5	72.8	37.7 - 84		4/7/2023 18:45
Terphenyl-d14	77.6	40.5 - 99.5		4/7/2023 18:45

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 4/7/2023
Data File: B663367.D

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	<4.1	ug/Kg		4/10/2023
4,4-DDE	<4.1	ug/Kg		4/10/2023
4,4-DDT	<4.1	ug/Kg		4/10/2023
Aldrin	<2.1	ug/Kg		4/10/2023
alpha-BHC	<2.1	ug/Kg		4/10/2023
beta-BHC	<2.1	ug/Kg		4/10/2023
Chlordane	<210	ug/Kg		4/10/2023
cis-Chlordane	<2.1	ug/Kg		4/10/2023
delta-BHC	<2.1	ug/Kg		4/10/2023
Dieldrin	<4.1	ug/Kg		4/10/2023
Endosulfan I	<2.1	ug/Kg		4/10/2023
Endosulfan II	<4.1	ug/Kg		4/10/2023
Endosulfan Sulfate	<4.1	ug/Kg		4/10/2023
Endrin	<4.1	ug/Kg		4/10/2023
Endrin Aldehyde	<4.1	ug/Kg		4/10/2023
Endrin Ketone	<4.1	ug/Kg		4/10/2023
gamma-BHC (Lindane)	<2.1	ug/Kg		4/10/2023
Heptachlor	<2.1	ug/Kg		4/10/2023

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Client: Lu Engineers, Inc.

Project Reference: CVMF-4265

Sample Identifier: CVMF-01 Composite

Lab Sample ID: 231289-02

Date Sampled: 4/4/2023 11:40

Matrix: Soil

Date Received 4/4/2023

Heptachlor Epoxide	<2.5	ug/Kg	4/10/2023
Methoxychlor	<21	ug/Kg	4/10/2023
Toxaphene	<210	ug/Kg	4/10/2023
trans-Chlordane	<2.1	ug/Kg	4/10/2023

Method Reference(s): EPA 8081B

Subcontractor ELAP ID: 10709



Method Blank Report

Client: Lu Engineers, Inc.
Project Reference: CVMF-4265
Lab Project ID: 231289
Matrix: Soil

RCRA Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	<0.490	mg/Kg		4/11/2023 09:18
Barium	<4.90	mg/Kg		4/11/2023 09:18
Cadmium	<0.245	mg/Kg		4/11/2023 09:18
Chromium	<0.490	mg/Kg		4/11/2023 09:18
Lead	<0.490	mg/Kg		4/11/2023 09:18
Selenium	<0.980	mg/Kg		4/11/2023 09:18
Silver	<0.490	mg/Kg		4/11/2023 09:18

Method Reference(s): EPA 6010C
 EPA 3050B
Preparation Date: 4/6/2023
Data File: 230411A
QC Batch ID: QC230406soil
QC Number: Blk 1

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Lu Engineers, Inc.

Project Reference: CVMF-4265

Lab Project ID: 231289

Matrix: Soil

RCRA Metals (ICP)

Analyte	LCS Added	LCSD Added	Spike Units	LCS Result	LCSD Result	LCS % Recovery	LCSD % Recovery	% Rec	Limits	LCS Outliers	LCSD Outliers	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Arsenic	125	124	mg/Kg	115	114	92.0	92.1	80 - 120				0.130	20		4/11/2023
Barium	125	124	mg/Kg	125	124	99.9	100	80 - 120				0.0400	20		4/11/2023
Cadmium	50.0	49.5	mg/Kg	50.4	49.9	101	101	80 - 120				0.0993	20		4/11/2023
Chromium	125	124	mg/Kg	118	117	94.6	94.8	80 - 120				0.169	20		4/11/2023
Lead	125	124	mg/Kg	118	117	94.6	94.6	80 - 120				0.00	20		4/11/2023
Selenium	125	124	mg/Kg	105	104	83.8	84.2	80 - 120				0.429	20		4/11/2023
Silver	125	124	mg/Kg	12.1	12.0	96.9	97.0	80 - 120				0.0825	20		4/11/2023

Method Reference(s):

EPA 6010C
EPA 3050B

Preparation Date: 4/6/2023

Data File: 230411A

QC Number: 1

QC Batch ID: QC230406soil

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



QC Report for Sample Spike and Sample Duplicate

Client: **Lu Engineers, Inc.**

Lab Project ID: 231289

Project Reference: **CVMF-4265**

Date Sampled: 4/4/2023
Date Received: 4/4/2023

Lab Sample ID: 231289-02
Sample Identifier: CVMF-01 Composite
Matrix: Soil

RCCA Metals (ICP)

Analyte	Sample Results	Result Units	Spike Added	Spike Result	Spike % Recovery	% Rec Limits	Spike Outliers	Duplicate Result	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Arsenic	3.68	mg/Kg	148	105	68.7	75 - 125	*	4.76	25.5	20	*	4/11/2023
Barium	64.8	mg/Kg	148	160	64.4	75 - 125	*	55.9	14.8	20		4/11/2023
Cadmium	< 0.287	mg/Kg	59.1	41.8	70.6	75 - 125	*	<0.307	NC	20		4/11/2023
Chromium	13.0	mg/Kg	148	113	67.3	75 - 125	*	13.0	0.350	20		4/11/2023
Lead	10.3	mg/Kg	148	110	67.2	75 - 125	*	12.3	17.5	20		4/11/2023
Selenium	< 1.15	mg/Kg	148	88.9	60.2	75 - 125	*	<1.23	NC	20		4/11/2023
Silver	< 0.575	mg/Kg	14.8	11.2	76.0	75 - 125		<0.614	NC	20		4/11/2023

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 4/6/2023
230411A
QC Batch ID: QC230406soil

NC = Not Calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.
Report Prepared Tuesday, April 11, 2023



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"H" = Denotes a parameter analyzed outside of holding time.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

- Warranty.** Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.
- Scope and Compensation.** LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order. Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.
- Prices.** Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.
- Limitations of Liability.** In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services. LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results. All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB. Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.
- Hazard Disclosure.** Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.
- Sample Handling.** Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report. Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples. LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.
- Legal Responsibility.** LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.
- Assignment.** LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.
- Force Majeure.** LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.
- Law.** This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES

REPORT TO:

INVOICE TO:

COMPANY: <i>Env Engineers</i>	ADDRESS: <i>399 280 E Broad Street 170</i>	LAB PROJECT ID: <i>251289</i>
CITY: <i>Rochester</i>	STATE: <i>NY</i> ZIP: <i>14604</i>	Quotation #: <i>251289</i>
PHONE: <i>585-385-7417</i>	FAX: <i>585-385-7417</i>	Email: <i>bseker@lvensgivers</i>
ATTN: <i>Kristi MacCalli, Ben Seifert</i>	Matrix Codes: <i>WA - Water</i>	ATTN:
	<i>Ad - Aqueous Liquid</i>	
	<i>NG - Non-Aqueous Liquid</i>	
	<i>WG - Groundwater</i>	
	<i>DW - Drinking Water</i>	
	<i>MW - Wastewater</i>	
	<i>SO - Soil</i>	
	<i>SL - Sludge</i>	
	<i>SD - Solid</i>	
	<i>PT - Paint</i>	
	<i>WP - Wipe</i>	
	<i>CK - Caulk</i>	
	<i>OL - Oil</i>	
	<i>AR - Air</i>	

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRADES	SAMPLE IDENTIFIER	MACADRESIS	NO. OF TESTS	TCL VOC	TCL SVOC	Pyridine	PCBA Metals	Total Pest.	Total Herb.	PCBS	Ign./Finish	PH	Rem. CN+SR	REMARKS	PARADIGM LAB SAMPLE NUMBER
04/04/23	11:40		✓	CVMF-01 <i>Grab</i>		50	✓											
04/04/23	11:40	✓		CVMF-01 <i>COMP</i>		50	✓	✓	✓	✓	✓	✓	✓	✓	✓		<i>Please homogenize to extent possible</i>	<i>01</i>

Turnaround Time	Report Supplements
Availability contingent upon lab approval; additional fees may apply.	
Standard 5 day <input checked="" type="checkbox"/>	None Required <input checked="" type="checkbox"/>
10 day <input type="checkbox"/>	Batch QC <input type="checkbox"/>
Rush 3 day <input type="checkbox"/>	Category A <input type="checkbox"/>
Rush 2 day <input type="checkbox"/>	Category B <input type="checkbox"/>
Rush 1 day <input type="checkbox"/>	Other <input type="checkbox"/>
Other <input type="checkbox"/>	Other EDD <input type="checkbox"/>
	Other <input type="checkbox"/>

Sampled By: <i>[Signature]</i>	Date/Time: <i>04/04/23 11:45</i>
Relinquished By: <i>[Signature]</i>	Date/Time: <i>04/04/23 12:01</i>
Received By: <i>[Signature]</i>	Date/Time: <i>04/04/23 12:00</i>
Received @ Lab By: <i>[Signature]</i>	Date/Time: <i>04/04/23 13:41</i>
	Date/Time: <i>04/04/23 14:40</i>

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

iced in field @ 1200 4/4/23

108



2F

Chain of Custody Supplement

Client: Lu Engineers Completed by: 2F
 Lab Project ID: 231289 Date: 4/4/23

Sample Condition Requirements
 Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt		
	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> SOBS	<input type="checkbox"/>
Comments	_____		
Transferred to method-compliant container	<input type="checkbox"/>	<input checked="" type="checkbox"/> SOBS	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Preservation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Temperature	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ^{2F} 4/5 7°C iced in field	<input checked="" type="checkbox"/> N/A pH
Comments	_____		
Compliant Sample Quantity/Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		



179 Lake Avenue, Rochester, NY 14608 Office (585) 847-2530 Fax (585) 847-3311

230405057

CHAIN OF CUSTODY

NEC

ELAP ID: 1

REPORT TO: **Paradigm Environmental** INVOICE TO:

COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:		CLIENT PROJECT	
ADDRESS:		ADDRESS:		TURNAROUND TIME: (WORKING DAYS)			
CITY:		CITY:					
STATE:		STATE:					
ZIP:		ZIP:					
PHONE:		PHONE:					
FAX:		FAX:					
ATTN:	Reporting	ATTN:	Accounts Payable				
COMMENTS:	Please email results to reporting@paradigmenv.com						

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRA B	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAMINANTS	REMARKS	PARADIGM LAB SAMPLE NUMBER
4/4/03	1140	X		CUMF-01	SO	X	Total Hg Total Pest Total Herb Doac. CN+S	1231289.02
							MERCURY - SOIL	
							EPA 8261 SOIL PEST Herbiv	

LAB USE ONLY BELOW THIS LINE**

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter **NELAC Compliance**

Container Type: Y N

Preservation: Y N

Holding Time: Y N

Temperature: Y N

Comments: _____

Client **Sampled By** [Signature] **Date/Time** 0830 4/5/03

Client **Relinquished By** [Signature] **Date/Time** 4/5/03

Received By _____ **Date/Time** _____

Received @ Lab By _____ **Date/Time** _____

Total Cost:

P.L.F.

Date Due: 4/12/03

1 2 3 5



This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No. 001

Page 1 of 1

Ramsey

(Name of carrier) (SCAC)

Carrier No. _____

Date 4/20/23

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO: Consignee

Street 536 Central Ave

City _____ State _____ Zip Code _____

FROM: Shipper

Street 945 Mt Rev C Blvd

City _____ State _____ Zip Code _____

24 hr. Emergency Contact Tel. No. _____

Route _____ Vehicle Number _____

No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
<u>Rd1066</u>		<u>Exempt Fill Limited Use</u>	<u>2231</u>	<u>Ton</u>		

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____"
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

 Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: \$ _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

 (Signature of Consignor)

C.O.D. FEE: PREPAID COLLECT \$ _____

TOTAL CHARGES \$ _____
 FREIGHT CHARGES
 FREIGHT PREPAID Check box if charges are to be collect
 except when box at right is checked

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to des-

tination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
 Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER _____

CARRIER W

PER _____

PER _____

DATE _____

DATE _____

Permanent post-office address of shipper.



STYLE F370-4 © 2012 LABELMASTER® (800) 621-5808 www.labelmaster.com

4

This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No. 002

Carrier No. _____

Page _____ of _____

Kamsey
(Name of carrier)

(SCAC)

Date 4/21/23

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO: Consignee

Street 536 Central Ave

City _____ State _____ Zip Code _____

FROM: Shipper

Street CVMF

City _____ State _____ Zip Code _____

24 hr. Emergency Contact Tel. No. _____

Route _____ Vehicle Number _____

No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
<u>Roll off</u>		<u>Exempt HIL Limited Use</u>		<u>2231.5</u>		

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature _____

REMIT C.O.D. TO: ADDRESS

COD

Amt: \$ _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID COLLECT \$ _____

TOTAL CHARGES \$ _____

FREIGHT CHARGES: FREIGHT PREPAID Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to des-

tion and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER

CARRIER N

PER

PER

DATE

4

Permanent post-office address of shipper.



STYLE F370-4 © 2012 LABELMASTER® (800) 621-5808 www.labelmaster.com

This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No. 003

Carrier No. _____

Date 4/21/2023

Page _____ of _____

Ramsay (Name of carrier) _____ (SCAC)

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO: Consignee _____

Street 536 Central Ave

City _____ State _____ Zip Code _____

FROM: Shipper _____

Street CMF

City _____ State _____ Zip Code _____

24 hr. Emergency Contact Tel. No. _____

Route _____ Vehicle Number _____

No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
<u>R 1/116</u>		<u>Exempt Full Lim & C Use</u>		<u>22.31 Tm</u>		

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature _____

REMIT C.O.D. TO: ADDRESS _____

COD Amt: \$ _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor) _____

C.O.D. FEE: PREPAID COLLECT \$ _____

TOTAL CHARGES \$ _____

FREIGHT CHARGES: FREIGHT PREPAID Check box if charges are to be collected

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER _____ CARRIER (Signature)

PER _____ PER _____

DATE _____ DATE _____

4

This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No. 004

Carrier No. _____

Page _____ of _____

Kumsey

(Name of carrier)

(SCAC)

Date 4/21/2023

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee

Street 536 Central Ave

City _____ State _____ Zip Code _____

FROM:
Shipper

Street CVME

City _____ State _____ Zip Code _____

24 hr. Emergency Contact Tel. No. _____

Route _____ Vehicle Number _____

No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
<u>Roll of</u>		<u>Expendable</u>		<u>22.31</u>		
<u>20</u>		<u>Insulated</u>				

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature _____

REMIT
C.O.D. TO:
ADDRESS

COD

Amt: \$ _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Signature _____
 (Signature of Consignor)

C.O.D. FEE:
PREPAID
COLLECT \$ _____

TOTAL CHARGES \$ _____

FREIGHT CHARGES
 FREIGHT PREPAID Check box if charges are to be collect
 except when box at right is checked

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to des-

tion and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
 Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the same terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER

CARRIER [Signature]

PER

PER

DATE

4

Permanent post-office address of shipper.



STYLE F370-4 © 2012 LABELMASTER® (800) 621-5808 www.labelmaster.com

This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No. ms

Page _____ of _____

Ramsey

(Name of carrier)

(SCAC)

Carrier No. _____

Date 4/21/2023

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO: Consignee

Street 536 Central Ave

City _____ State _____ Zip Code _____

FROM: Shipper

Street CVMF

City _____ State _____ Zip Code _____

24 hr. Emergency Contact Tel. No. _____

Route _____ Vehicle Number _____

No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
<u>Roll off</u>		<u>Exempt Full Limited Use</u>		<u>223</u>		

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
 Signature _____

REMIT C.O.D. TO: ADDRESS

COD Amt: \$ _____

C.O.D. FEE: PREPAID COLLECT \$ _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
 Signature of Consignor _____

TOTAL CHARGES \$ _____
FREIGHT CHARGES
 FREIGHT PREPAID Check box if charges are to be collect
 except when box at right is checked

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
 Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER _____ CARRIER 12
 PER _____ PER _____
 DATE _____ DATE _____

4

Permanent post-office address of shipper.



This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No. 006

Page _____ of _____

KAMSEY

(Name of carrier)

(SCAC)

Carrier No. _____

Date 4/21/23

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO: Consignee

Street 536 Central Ave

City _____ State _____ Zip Code _____

FROM: Shipper

Street CVMF

City _____ State _____ Zip Code _____

24 hr. Emergency Contact Tel. No. _____

Route

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
<u>1</u>		<u>Exempt Full Limit of Use</u>		<u>22 31.75</u>		

PLACARDS TENDERED: YES NO

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
 (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
 (3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature

REMIT C.O.D. TO: ADDRESS

COD

Amt: \$

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID COLLECT \$

TOTAL CHARGES \$

FREIGHT CHARGES
 FREIGHT PREPAID Check box if charges are to be collect
 except when box at right is checked

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to des-

tionation and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER

CARRIER (N)

PER

PER

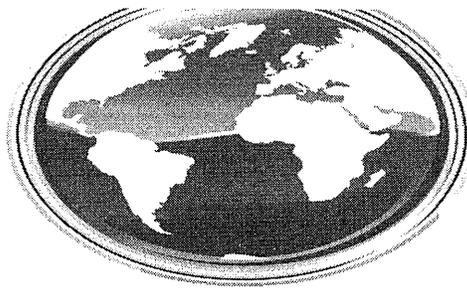
DATE

4

Permanent post-office address of shipper.



STYLE F370-4 © 2012 LABELMASTER® (800) 621-5808 www.labelmaster.com



BEN WEITSMAN OF ROCHESTER

East Coast's Largest Privately Held Scrap Metal Processor

CUSTOMER: Ramsey Constructors

DATE: 4/21/2023

RECEIPT #: 48886

CERTIFIED WEIGHT 73,960 Lbs.

FEE \$No Charge

**CERTIFIED SCALE WEIGHT
WEIGHMASTER LICENSE
NUMBER 260003**



BEN WEITSMAN OF ROCHESTER

East Coast's Largest Privately Held Scrap Metal Processor

CUSTOMER: Ramsey Constructors

DATE: 4/21/2023

RECEIPT #: 48887

CERTIFIED WEIGHT 29,340 Lbs.

FEE \$No Charge

**CERTIFIED SCALE WEIGHT
WEIGHMASTER LICENSE
NUMBER 260003**

CONSTRUCTION SITE MATERIALS REUSE UNDER NYSDEC PART 360: QUICK REFERENCE GUIDE

What is the material?	Am I required to sample it?		Where can I use it?					Regulatory References
	Sampling Required? ^a	Lab Results Meet These Criteria	Highway Rights-of-Way	Farm, Cropland	Farm, Other	Residential Development	Under Pavement ^d	
Excavated or demolition material description								
Undisturbed native soil or sand and rock (except in NYC)	No	N/A	Yes	Yes	Yes	Yes	Yes	1, 4
Soil, Sand and Rock from Suspect location	Yes	General Fill	Yes	No	Yes	Yes	Yes	2, 3, 4
Soil, Sand and Rock from Suspect location	Yes	Restricted-Use Fill (RUF)	Yes	No	No	No	Yes	2, 3, 4
Soil, Sand and Rock from Suspect location	Yes	Limited-Use Fill (LUF)	No	No	No	No	Yes	2, 3, 4
Mixed "RU-CARBS" ^b	No	N/A	Yes, no volume limit	No	Yes, up to 5000 CY	Yes, up to 5000 CY	Yes, up to 5000 CY	5, 6
Mixed "RU-CARB" - only incidental soil (except in NYC Watershed, Nassau or Suffolk Counties)	No	N/A	Yes	No	Yes	Yes	Yes	7
Mixed soil and unrecognizable excavated material (concrete, asphalt, ash, slag, etc.)	Yes	RUF	Yes	No	No	No	Yes	2, 3, 4
Mixed soil and unrecognizable excavated material (concrete, asphalt, ash, slag, etc.)	Yes	LUF	No	No	No	No	Yes	2, 3, 4
Asphalt millings	No	N/A	Yes	No	No, except as pavement ^c	No, except as pavement ^c	Yes	8

^a Sampling and laboratory analysis according to 6 NYCRR 360.13(e).

^b "Recognizable, uncontaminated concrete and concrete products, asphalt pavement, rock, brick and soil"

^c A three- to six-inch layer of millings can be placed and compacted as a light-duty pavement over a prepared subgrade.

^d Materials allowed "under pavement" can be used in any land-use setting under pavement or foundation and above the seasonal high water table.

Version 4/28/21

REGULATORY REFERENCES

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. 6 NYCRR 360.12(c)(1)(ii) 2. 6 NYCRR 360.13(d) and (e) 3. 6 NYCRR 360.13(f) 4. February 12, 2021 Enforcement Discretion Letter (EDL), Subheading IV | <ol style="list-style-type: none"> 5. 6 NYCRR 363-2.1(h) 6. 6 NYCRR 363-2.1(i) 7. Feb.12, 2021 EDL, Subheading VI 8. 6 NYCRR 360.12(c)(3)(ix) |
|--|---|



Department of
Environmental
Conservation

536 Central Avenue
City of Rochester
Monroe County, New York

Generic Health and Safety Plan

Prepared for:



City of Rochester
Division of Environmental Quality
30 Church Street Room 300 B
Rochester, New York 14614

February 2023

Table of Contents

A. General Information	2
Site Description/Unusual Features	2
B. Site/Waste Characteristics	2
Locations of Chemicals/Waste.....	3
C. Hazard Evaluation	4
D. Site Safety Work Plan.....	7
Site Control:	7
Anticipated Level of PPE:	7
Air Monitoring:.....	7
Personnel Decontamination Protocol:.....	7
E. Training Requirements.....	8
Special Site Equipment, Facilities or Procedures	8
Site Entry Procedures and Special Considerations:	8
F. Emergency Information	9
Local Resources:.....	9
Emergency Contacts:	10
Emergency Routes	10

Appendices

- Appendix A – Heat and Cold Stress Exposure
- Appendix B – Additional Potential Physical and Chemical Hazards
- Appendix C – Equipment Checklist

A. General Information

Project Title: 536 Central Ave **Project No.** 4229-57

Project Manager: _____

Location: 536 Central Avenue
City of Rochester, NY

Prepared By: _____ **Date Prepared:** _____
Date Revised: _____

Approved By: _____ **Date Approved:** _____

Site Safety Officer Review: _____ **Date Reviewed:** _____

Site Description/Unusual Features

The work area is located in the southwest corner of 536 Central Avenue. The objective of the project is to conduct closure of seven (7) underground storage tanks.

Scope/Objective of Work

The work planned for this project includes uncovering, emptying, purging/inerting, removing, cleaning, transporting, and disposing of seven (7) petroleum USTs and proper handling and recycling and/or disposal of resultant wastes by a qualified environmental contractor. Refer to the Corrective Action Plan for more detail.

Proposed Date of Field Activities: _____

Background Information:

Complete Preliminary (no data available)

Overall Chemical Hazard:

Serious Moderate
 Low Unknown

Overall Physical Hazard:

Serious Moderate
 Low Unknown

B. Site/Waste Characteristics

Waste Type(s):

Liquid Solid Sludge Gas/Vapor

Characteristic(s):

- | | | | |
|---|--|---|---|
| <input checked="" type="checkbox"/> Flammable/Ignitable | <input checked="" type="checkbox"/> Volatile | <input checked="" type="checkbox"/> Corrosive | <input checked="" type="checkbox"/> Acutely Toxic |
| <input checked="" type="checkbox"/> Explosive | <input type="checkbox"/> Reactive | <input type="checkbox"/> Carcinogen | <input type="checkbox"/> Radioactive |
| <input type="checkbox"/> Other: | _____ | | |

Physical Hazard(s):

- | | | | |
|--|--|---|---|
| <input checked="" type="checkbox"/> Overhead | <input type="checkbox"/> Confined Space | <input type="checkbox"/> Below Grade | <input checked="" type="checkbox"/> Trip/Fall |
| <input checked="" type="checkbox"/> Puncture | <input type="checkbox"/> Burn | <input checked="" type="checkbox"/> Cut | <input type="checkbox"/> Splash |
| <input checked="" type="checkbox"/> Noise | <input checked="" type="checkbox"/> Other: | _____ Underground utilities | |

Locations of Chemicals/Waste

Residual product and/or liquids within the identified USTs

Estimated Volume of Chemicals/Wastes:

Refer to Table 1 of the CAP.

Site Currently in Operation:

- Yes No Not Applicable

C. Hazard Evaluation

PHYSICAL HAZARD EVALUATION:		
TASK	HAZARD(S)	HAZARD PREVENTION
All	Contact with or inhalation of contaminants, potentially in high concentration in sampling media and/or fire and explosion	To minimize exposure to chemical contaminants, a thorough review of suspected contaminants should be completed and implementation of an adequate protection program.
	Back strain and muscle fatigue due to lifting	Use proper lifting techniques to prevent back strain.
	Heat stress/ cold stress exposure	Implement heat stress management techniques such as shifting work hours, increasing fluid intake, and monitoring employees. See Appendix A.
	Slip/ tripping/ overhead/ fall	Observe terrain and drilling equipment while walking to minimize slips and falls. Steel-toed boots provide additional support and stability. Use adequate lighting. Wear hard hat. Inspect all lifting equipment prior to use.
	Utility Lines	Identify location(s) prior to work, maintain 25 foot minimum distance to overhead utilities.
	Weather Extremes	Establish Site-specific contingencies for severe weather situations. Discontinue work in severe weather.
	Native wildlife presents the possibility of insect bites and associated diseases.	Avoid wildlife when possible. Use insect repellent.

Basic health and safety protection (steel-toed boots, work clothes, and safety glasses or goggles) will be worn by all personnel at all times. Snakes, insects, and other endemic wildlife should be avoided at all times. Any encounters that result in bites or scratches should be reported to the Site Safety Officer immediately. All allergies should be reported to the Site Safety Officer prior to the start of the project.

CHEMICAL HAZARD EVALUATION									
Compound	Exposure Limits (TWA)			Dermal Hazard (Y/N)	Route(s) of Exposure	Acute Symptoms	Odor Threshold/Description	FID/PID	
	PEL	REL	TLV					Relative Response	Ioniz. Poten. (eV)
Acetone	1000 ppm	250 ppm	500 ppm	Y	Inh, Ing, Con	Irritation to eyes, nose, or throat, skin, skin burns, loss of coordination and equilibrium	Sharp penetrating odor, mint like	1.1	9.69
Arsenic*	0.01 mg/m ³	---	0.01 mg/m ³	Y	Inh, Ing, Abs, Con	Coughing, irritation to eyes, nose, throat, respiratory tract, inflammation of mucous membranes, dyspnea (labored breathing), cyanosis, and rales (rattle breathing), vomiting, bloody diarrhea, cold clammy skin, low blood pressure, weakness, headache cramps, convulsions, coma, redness, burns to skin	Odorless/silver gray or tin white brittle (metal, inorganic), also can be in solution (clear & odorless)	---	---
Benzene*	1 ppm	---	10 ppm	Y	Inh, Abs, Ing, Con	Irritation to eyes, skin, nose, respiratory system; headache, nausea, dizziness, drowsiness, unconsciousness, harmful, fatal if aspirated into lungs	Colorless to light yellow liquid, sweet aromatic odor	0.5	9.25
Ethylbenzene	100 ppm	---	100 ppm	Y	Inh, Ing, Con	Irritation to eyes, skin, mucous membranes; dermatitis, narcosis, , trouble breathing, paralysis, headache, nausea, headache, dizziness, coma	Colorless liquid, aromatic odor	0.5	8.77
Lead	0.05 mg/m ³	0.05 mg/m ³	0.05 mg/m ³	Y	Inh, Ing, Con	Poison, abdominal pain, spasms, nausea, vomiting, headache, irritation to eyes; skin, weakness, metallic taste, anorexia/loss of appetite, insomnia, facial pallor, colic, anemia, tremor, "lead line" in gums, constipation, abdominal pain, paralysis in wrists and ankles, encephalopathy (inflammation of brain)	Odorless	---	---

Methyl Ethyl Ketone (2-Butanone, MEK)	200 ppm	200 ppm	200 ppm	Y	Inh, Ing, Con	Irritation to eyes, nose; skin, dizziness, nausea, drowsiness, CNS depression, unconsciousness	Mint or acetone-like	0.9	9.51
Toluene	200 ppm	100 ppm	20 ppm	Y	Inh, Abs, Ing, Con	Irritation to eyes, skin, nose; upper respiratory tract, fatigue, weak, confusion, dizziness, headache, drowsiness, abdominal spasms, dilated pupils, euphoria	Colorless liquid, sweet pungent, benzene like odor	0.5	8.82
Xylenes	100 ppm	100 ppm	100 ppm	Y	Inh, Abs, Ing, Con	Irritation to eyes, nose, throat, skin; nausea, vomiting, headache, ringing in ears, severe breathing difficulties (that may be delayed in onset), substernal pain, coughing hoarseness, dizziness, excited, burning in mouth, stomach, dermatitis (removes oils from skin), corneal burns	Colorless liquid, aromatic odor	0.5	8.44
							(solid below 56 F		

* = Chemical is a known or suspected carcinogen

KEY:

PEL = Permissible Exposure Limit
REL = Recommended Exposure Limit
--- = Information not available
TLV = Threshold Limit Value(ACGIH)

Inh = Inhalation
Ing = Ingestion
mg/m³ = Milligrams per cubic meter
* = Chemical is a known or suspected carcinogen

Abs = Skin Absorption
Con = Skin and/or eye Contact
ppm = Parts per million
sk = Skin notation

D. Site Safety Work Plan

Site Control:

	<u>Yes</u>	<u>No</u>		<u>Yes</u>	<u>No</u>
Perimeter Identified:	[X]	[]	Site Secured:	[]	[X]
Work Areas Designated:	[X]	[]	Zones of Contamination Identified:	[X]	[]

Appropriate work zone signage will be implemented around the specified work area. All vehicles within the work area will be equipped with a flashing amber strobe light. All work will be completed during daylight hours; no night work is anticipated as part of the investigation.

Anticipated Level of PPE:

Level A	Level B	Level C	Level D
--	--	(Available)	[X]

All Site work will be performed at Level D (steel-toed boots, work clothes, eye protection, gloves and hard hats) unless monitoring indicates otherwise. Gloves will be worn if contact with Site soil, sludge or water is anticipated. Level C will be available, and used when indicated by PID readings of 5 ppm or greater above ambient air.

Air Monitoring:

Air monitoring will be conducted in accordance with the New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan, included in Appendix D.

Decontamination Solutions and Procedures for Equipment, Sampling Gear, etc.:

Disposable sampling equipment will be used where possible. If decontamination is necessary, distilled or deionized water and alconox will be used. A 10% nitric acid rinse will be added if metals sampling is to be conducted.

Sampling Handling Procedures Including Protective Wear:

All sample handling will be performed while wearing nitrile gloves. To minimize hazards to lab personnel, sample volumes will be no larger than necessary, and the outside of all sample containers will be wiped clean prior to being relinquished.

Personnel Decontamination Protocol:

Soap, water and paper towels will be available for all personnel and will be used before eating, drinking or leaving the Site. Disposable PPE will be double bagged and disposed of as non-hazardous waste unless PCBs are detected.

Work Limitations (time of day, weather conditions, etc.) and Heat/Cold Stress Requirements:

All work will be completed during daylight hours. Severe inclement weather may be cause to suspend outdoor activities. Cold/heat stress protocol will dictate work/rest regimen. Heavy equipment will not be used during electrical storms. No transfer of materials can be conducted outside of normal working hours.

E. Training Requirements

All personnel conducting field activities on-Site are required to have completed training sessions in accordance with Occupational Safety and Health Administration (OSHA) for Parts 1926 and 1910 (Title 29 Code of Federal Regulations [CFR] Part 1926.65 and Part 1910.120 - Hazardous Waste Operations and Emergency Response- 'HazWOPER'). This training shall consist of a minimum of 40 hours of instruction off-Site and three days of actual field experience under the direct supervision of a trained, experienced supervisor. Each employer will maintain documentation stating that its on-Site personnel have complied with this regulation.

In addition, each employee PPE worn by each employee will be in compliance with OSHA Parts 1910.132-140. Also, if respirator use is required, each employee needed to wear a respirator will be in compliance with OSHA Respiratory Protection standards Part 1910.134.

All personnel will have reviewed this HASP and received a Site-specific health and safety briefing prior to participating in field work.

All visitors entering the work area must review the HASP and be equipped with the proper PPE. All Site personnel and visitors shall sign the last page of the HASP as an acknowledgement that they have read and understand the Site health and safety requirements.

Team Member*	Responsibility
	Project Director/ Environmental Manager
	Field Team Leader/ Geologist
	Geologist/Environmental Field Technician
	Environmental Field Technician

* All field staff must have completed applicable training per 29CFR 1910.120. Respiratory protection program meets requirements of 29CFR 1910.134.

Special Site Equipment, Facilities or Procedures

Personnel will be required to maintain the Buddy System when entering and working on-Site. All parties will be required to attend an on-Site briefing, which will identify the roles of each organization's personnel and will integrate emergency procedures for all Site participants. Sanitary Facilities and Lighting Must Meet 29 CFR 1910.120

Site Entry Procedures and Special Considerations:

Technical Staff will be required to adhere to this HASP. Special requirements by the Construction Contractor will be addressed during project commencement at an on-Site briefing, which will identify the roles of each organization's personnel and will integrate emergency procedures for all Site participants.

Accident and Injury Reporting

Any work-related incident, accident, injury, illness, exposure, or property loss must be reported to the project manager. This includes:

- Accident, injury, illness, or exposure of an employee;
- Injury of a subcontractor;
- Damage, loss, or theft of property, and/or;
- Any motor vehicle accident regardless of fault, which involves a company vehicle, rental vehicle, or personal vehicle while employee is acting in the course of employment.

F. Emergency Information

Local Resources:

Ambulance:	<u>911</u>
Hospital Emergency Room:	<u>Thomas B. Golisano Emergency Center 1425 Portland Ave, City of Rochester NY</u>
Poison Control Center:	<u>911</u>
Police (include local, county sheriff, state):	<u>911</u>
Fire Department:	<u>911</u>
Airport:	<u>N/A</u>
Local Laboratory:	<u>N/A</u>
UPS/Federal Express:	<u>N/A</u>

Site Resources:

Site Emergency Evaluation Alarm Method:	<u>Sound vehicle horn.</u>
Water Supply Source:	<u>Gallons of water will be available in vehicles.</u>
Telephone Location, Number:	<u>None available</u>
Cellular Phone, if Available:	<u>None available</u>
Radio:	<u>TBD</u>
Other:	<u>TBD</u>

Emergency Contacts:

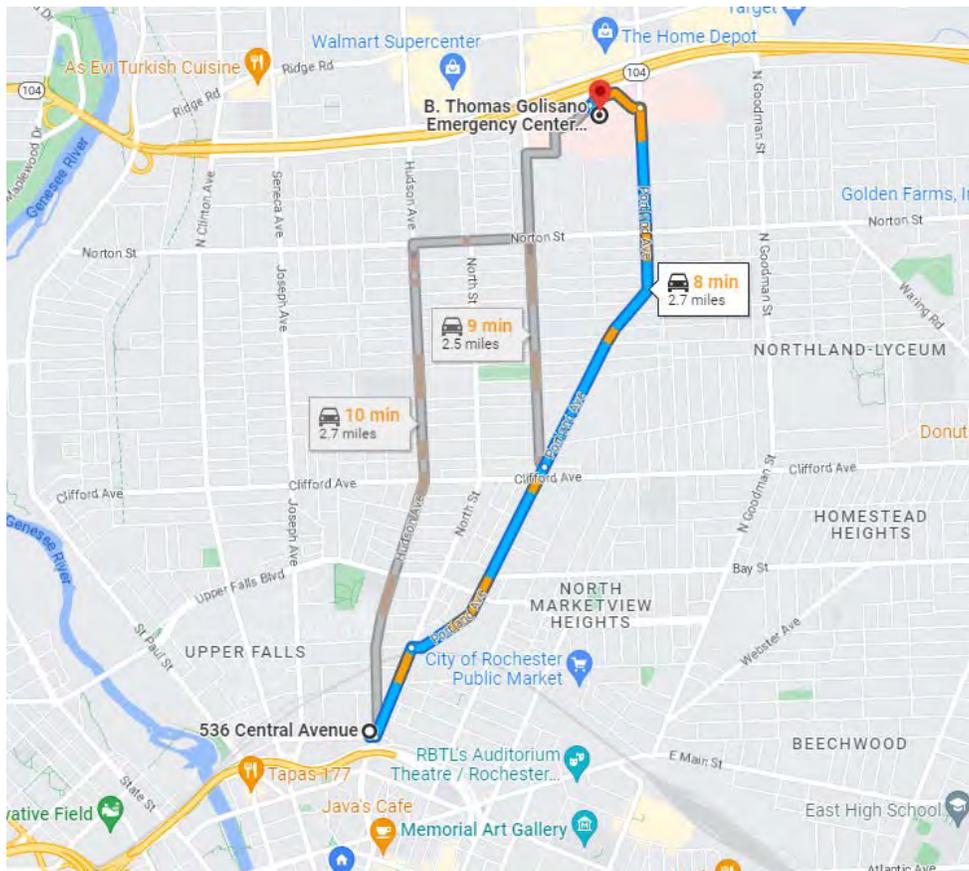
Fire/Police Department: 911

Safety Director: _____

Emergency Routes

Field team must know route(s) prior to start of work.

Directions from the Site to the hospital:



Head east on Central Ave toward North St. Turn left onto North St. Turn Right onto Portland Ave. Turn left onto Rochester General Hospital Dr. The destination is on the right.

On-Site Assembly Area: At Site entry point

Emergency egress routes to get off-Site: N/A

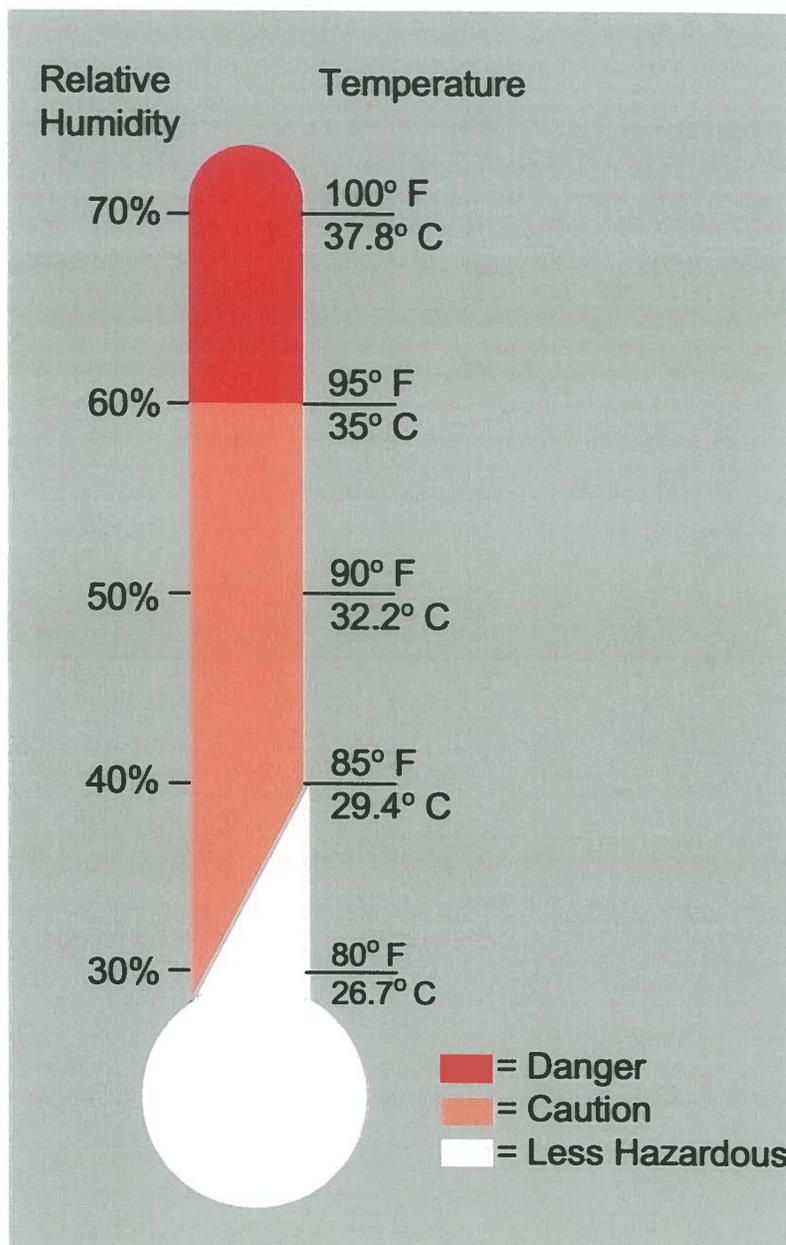
APPENDIX A

HEAT STRESS AND COLD EXPOSURE

THE HEAT EQUATION

**HIGH TEMPERATURE + HIGH HUMIDITY + PHYSICAL WORK
= HEAT ILLNESS**

When the body is unable to cool itself through sweating, **serious** heat illnesses may occur. The most severe heat-induced illnesses are **heat exhaustion** and **heat stroke**. If actions are not taken to treat heat exhaustion, the illness could progress to heat stroke and possible **death**.



HEAT EXHAUSTION

What Happens to the Body:

HEADACHES, DIZZINESS/LIGHT HEADEDNESS, WEAKNESS, MOOD CHANGES (irritable, or confused/can't think straight), FEELING SICK TO YOUR STOMACH, VOMITING/THROWING UP, DECREASED and DARK COLORED URINE, FAINTING/PASSING OUT, and PALE CLAMMY SKIN.

What Should Be Done:

- Move the person to a cool shaded area to rest. Don't leave the person alone. If the person is dizzy or light headed, lay them on their back and raise their legs about 6-8 inches. If the person is sick to their stomach lay them on their side.
- Loosen and remove any heavy clothing.
- Have the person drink some cool water (a small cup every 15 minutes) if they are not feeling sick to their stomach.
- Try to cool the person by fanning them. Cool the skin with a cool spray mist of water or wet cloth.
- If the person does not feel better in a few minutes call for emergency help (Ambulance or Call 911).

(If heat exhaustion is not treated, the illness may advance to heat stroke.)

HEAT STROKE—A MEDICAL EMERGENCY

What Happens to the Body:

DRY PALE SKIN (no sweating), HOT RED SKIN (looks like a sunburn), MOOD CHANGES (irritable, confused/not making any sense), SEIZURES/FITS, and COLLAPSE/PASSED OUT (will not respond).

What Should Be Done:

- Call for emergency help (Ambulance or Call 911).
- Move the person to a cool shaded area. Don't leave the person alone. Lay them on their back and if the person is having seizures/fits remove any objects close to them so they won't strike against them. If the person is sick to their stomach lay them on their side.
- Remove any heavy and outer clothing.
- Have the person drink some cool water (a small cup every 15 minutes) if they are alert enough to drink anything and not feeling sick to their stomach.
- Try to cool the person by fanning them. Cool the skin with a cool spray mist of water, wet cloth, or wet sheet.
- If ice is available, place ice packs under the arm pits and groin area.

How to Protect Workers

- Learn the signs and symptoms of heat-induced illnesses and what to do to help the worker.
- Train the workforce about heat-induced illnesses.
- Perform the heaviest work in the coolest part of the day.
- Slowly build up tolerance to the heat and the work activity (usually takes up to 2 weeks).
- Use the buddy system (work in pairs).
- Drink plenty of cool water (one small cup every 15-20 minutes)
- Wear light, loose-fitting, breathable (like cotton) clothing.
- Take frequent short breaks in cool shaded areas (allow your body to cool down).
- Avoid eating large meals before working in hot environments.
- Avoid caffeine and alcoholic beverages (these beverages make the body lose water and increase the risk for heat illnesses).

Workers Are at Increased Risk When

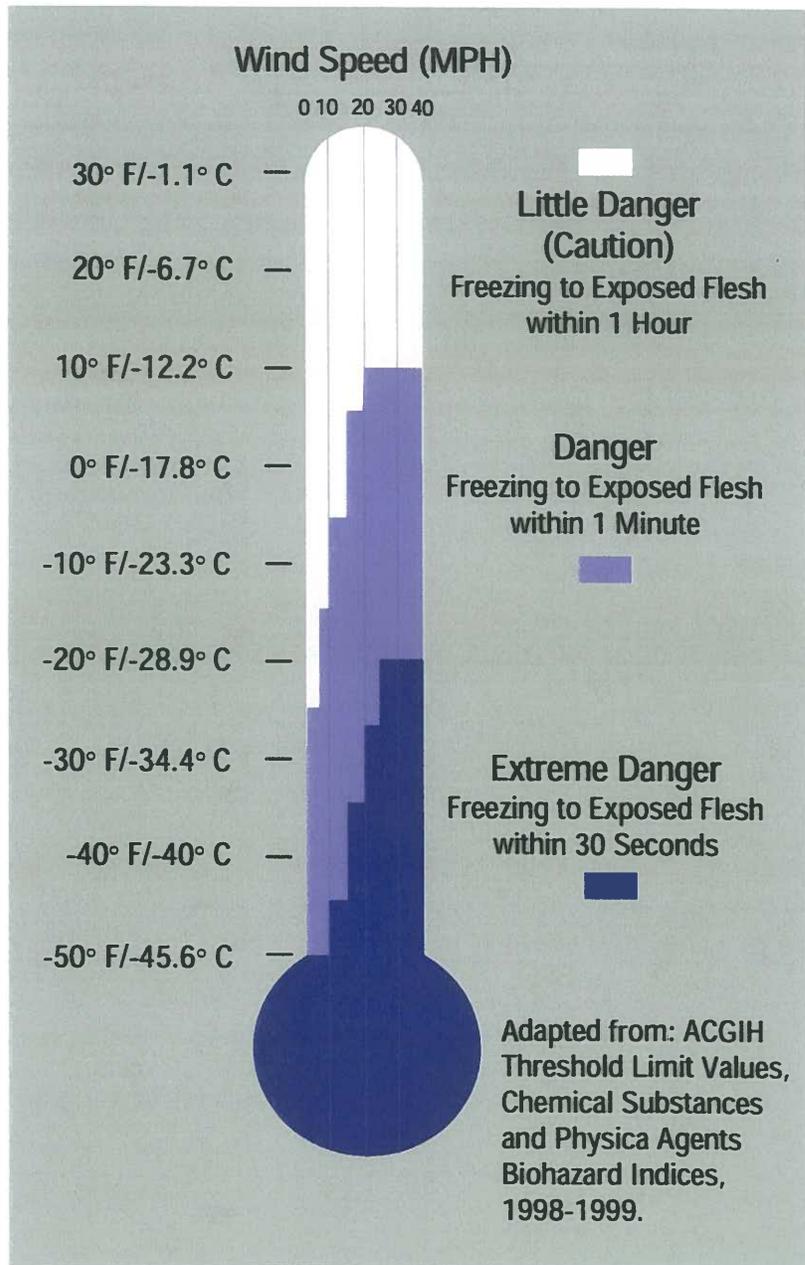
- They take certain medication (check with your doctor, nurse, or pharmacy and ask if any medicines you are taking affect you when working in hot environments).
- They have had a heat-induced illness in the past.
- They wear personal protective equipment (like respirators or suits).

THE COLD STRESS EQUATION

**LOW TEMPERATURE + WIND SPEED + WETNESS
= INJURIES & ILLNESS**

When the body is unable to warm itself, serious cold-related illnesses and injuries may occur, and permanent tissue damage and death may result.

Hypothermia can occur when *land temperatures* are **above** freezing or *water temperatures* are below 98.6°F/ 37°C. Cold-related illnesses can slowly overcome a person who has been chilled by low temperatures, brisk winds, or wet clothing.



FROST BITE

What Happens to the Body:

FREEZING IN DEEP LAYERS OF SKIN AND TISSUE; PALE, WAXY-WHITE SKIN COLOR; SKIN BECOMES HARD and NUMB; USUALLY AFFECTS THE FINGERS, HANDS, TOES, FEET, EARS, and NOSE.

What Should Be Done: (land temperatures)

- Move the person to a warm dry area. Don't leave the person alone.
- Remove any wet or tight clothing that may cut off blood flow to the affected area.
- **DO NOT** rub the affected area, because rubbing causes damage to the skin and tissue.
- **Gently** place the affected area in a warm (105°F) water bath and monitor the water temperature to **slowly** warm the tissue. Don't pour warm water directly on the affected area because it will warm the tissue too fast causing tissue damage. Warming takes about 25-40 minutes.
- After the affected area has been warmed, it may become puffy and blister. The affected area may have a burning feeling or numbness. When normal feeling, movement, and skin color have returned, the affected area should be dried and wrapped to keep it warm. **NOTE:** If there is a chance the affected area may get cold again, do not warm the skin. If the skin is warmed and then becomes cold again, it will cause severe tissue damage.
- Seek medical attention as soon as possible.

HYPOTHERMIA - (Medical Emergency)

What Happens to the Body:

NORMAL BODY TEMPERATURE (98.6° F/37°C) DROPS TO OR BELOW 95°F (35°C); FATIGUE OR DROWSINESS; UNCONTROLLED SHIVERING; COOL BLUISH SKIN; SLURRED SPEECH; CLUMSY MOVEMENTS; IRRITABLE, IRRATIONAL OR CONFUSED BEHAVIOR.

What Should Be Done: (land temperatures)

- Call for emergency help (i.e., Ambulance or Call 911).
- Move the person to a warm, dry area. Don't leave the person alone. Remove any wet clothing and replace with warm, dry clothing or wrap the person in blankets.
- Have the person drink warm, sweet drinks (sugar water or sports-type drinks) if they are alert. **Avoid drinks with caffeine** (coffee, tea, or hot chocolate) or alcohol.
- Have the person move their arms and legs to create muscle heat. If they are unable to do this, place warm bottles or hot packs in the arm pits, groin, neck, and head areas. **DO NOT** rub the person's body or place them in warm water bath. This may stop their heart.

What Should Be Done: (water temperatures)

- Call for emergency help (Ambulance or Call 911). Body heat is lost up to 25 times faster in water.
- **DO NOT** remove any clothing. Button, buckle, zip, and tighten any collars, cuffs, shoes, and hoods because the layer of trapped water closest to the body provides a layer of insulation that slows the loss of heat. Keep the head out of the water and put on a hat or hood.
- Get out of the water as quickly as possible or climb on anything floating. **DO NOT** attempt to swim unless a floating object or another person can be reached because swimming or other physical activity uses the body's heat and reduces survival time by about 50 percent.
- If getting out of the water is not possible, wait quietly and conserve body heat by folding arms across the chest, keeping thighs together, bending knees, and crossing ankles. If another person is in the water, huddle together with chests held closely.

How to Protect Workers

- Recognize the environmental and workplace conditions that lead to potential cold-induced illnesses and injuries.
- Learn the signs and symptoms of cold-induced illnesses/injuries and what to do to help the worker.
- Train the workforce about cold-induced illnesses and injuries.
- Select proper clothing for cold, wet, and windy conditions. Layer clothing to adjust to changing environmental temperatures. Wear a hat and gloves, in addition to underwear that will keep water away from the skin (polypropylene).
- Take frequent short breaks in warm dry shelters to allow the body to warm up.
- Perform work during the warmest part of the day.
- Avoid exhaustion or fatigue because energy is needed to keep muscles warm.
- Use the buddy system (work in pairs).
- Drink warm, sweet beverages (sugar water, sports-type drinks). Avoid drinks with caffeine (coffee, tea, or hot chocolate) or alcohol.
- Eat warm, high-calorie foods like hot pasta dishes.

Workers Are at Increased Risk When...

- They have predisposing health conditions such as cardiovascular disease, diabetes, and hypertension.
- They take certain medication (check with your doctor, nurse, or pharmacy and ask if any medicines you are taking affect you while working in cold environments).
- They are in poor physical condition, have a poor diet, or are older.

APPENDIX B

ADDITIONAL POTENTIAL PHYSICAL AND CHEMICAL HAZARDS

ADDITIONAL POTENTIAL PHYSICAL AND CHEMICAL HAZARDS

POTENTIAL PHYSICAL HAZARDS	CONTROL METHODS
Overhead Hazards/Falling Objects	Overhead hazards will be identified prior to each task (i.e., inspecting drill rig mast, building structure). Hard hats will be required for each task that poses an overhead hazard.
Contact with Utilities	Prior to initiating Site activities, all utilities will be located by the appropriate utility company and will be marked and/or barricaded to minimize the potential of accidental contact. A minimum distance of 10 feet between the derrick and overhead power lines must be maintained at all times.
Noise Exposure	Areas of potentially high sound pressure levels (>85 dBA) will be restricted to authorized personnel only. Engineering controls will be used to the extent possible. Hearing protection will be made available to all workers on-Site. Exposure to time-weighted average levels in excess of 85 dBA is not anticipated.
POTENTIAL CHEMICAL HAZARDS	GENERAL CONTROL METHODS
Contaminant Inhalation	Direct reading instruments will be used to monitor airborne contaminants. Established action levels will limit exposure to safe levels. Respiratory protection will be used as appropriate.
Contaminant Ingestion	Standard safety procedures such as restricting eating, drinking, and smoking to the support zone and utilizing proper personal decontamination procedures will minimize ingestion as a potential route of exposure.
Dermal Contaminant Contact	The proper selection and use of personal protective clothing and decontamination procedures will minimize dermal contaminant contact.
Potential contact with lower concentration waste and naturally occurring contaminants (i.e., methane)	Dermal contact with contaminants will be minimized by proper use of the following PPE: <ul style="list-style-type: none"> • Tyvek coveralls • Neoprene gloves • Booties (latex) or over-boots.
Contact with or inhalation of decontamination solutions.	Material Safety Data Sheets for all decon solutions. First aid equipment available. See Appendix C.

APPENDIX C

EQUIPMENT CHECKLIST

EQUIPMENT CHECKLIST

PROTECTIVE GEAR			
LEVEL A	N/A	LEVEL B	N/A
SCBA		SCBA	
SPARE AIR TANKS		SPARE AIR TANKS	
ENCAPSULATING SUITE		PROTECTIVE COVERALL	
SURGICAL GLOVES		RAIN SUIT	
NEOPRENE SAFETY BOOTS		BUTYL APRON	
BOOTIES		SURGICAL GLOVES	
GLOVES		GLOVES	
OUTER WORK GLOVES		OUTER WORK GLOVES	
HARD HAT		NEOPRENE SAFETY BOOTS	
CASCADE SYSTEM		BOOTIES	
5-MINUTE COOLING VEST		HARD HAT WITH FACE SHIELD	
		CASCADE SYSTEM	
		MANIFOLD SYSTEM	
LEVEL C	N/A	LEVEL D	N/A
ULTRA-TWIN RESPIRATOR		HALF-FACE RESPIRATOR (available)	X
POWER AIR PURIFYING RESPIRATOR		CARTRIDGES (Type GMC-H)(available)	X
CARTRIDGES		5-MINUTE ESCAPE MASK (available)	
5-MINUTE ESCAPE MASK		PROTECTIVE COVERALL	
PROTECTIVE COVERALL		RAIN SUIT (available)	X
RAIN SUIT	X	NEOPRENE SAFETY BOOTS	
BUTYL APRON		BOOTIES (available)	
SURGICAL GLOVES		NITRILE	
GLOVES	X	HARD HAT WITH FACE SHIELD (available)	
OUTER WORK GLOVES	X	SAFETY GLASSES	X
NEOPRENE SAFETY BOOTS		GLOVES	X
HARD HAT WITH FACE SHIELD		WORK GLOVES (available)	X
BOOTIES		SAFETY BOOTS	X
HARD HAT	X	BLAZE ORANGE VEST	
		TICK/CHIGGER GATORS	

EQUIPMENT CHECKLIST

INSTRUMENTATION	NO.	FIRST AID EQUIPMENT	NO.
OVA		FIRST AID KIT	X
THERMAL DESORBER		OXYGEN ADMINISTRATOR	
O ₂ /EXPLOSIMETER W/CAL.KIT (Drilling)		STRETCHER	
PHOTOVAC TIP		PORTABLE EYE WASH	
HNu (Probe 10.2)		BLOOD PRESSURE MONITOR	
MAGNETOMETER		FIRE EXTINGUISHER	X
PIPE LOCATOR			
WEATHER STATION		DECON EQUIPMENT	
DRAEGER PUMP, TUBES		WASH TUBS	
BRUNTON COMPASS		BUCKETS	X
MONITOX CYANIDE		SCRUB BRUSHES	X
HEAT STRESS MONITOR		PRESSURIZED SPRAYER	
NOISE EQUIPMENT		DETERGENT (Type: Alconox) = TSP	X
PERSONAL SAMPLING PUMPS		SOLVENT (HEXANE)	
MINI-RAM (Particulates) (Drilling)		PLASTIC SHEETING	
		TARPS AND POLES	
		TRASH BAGS	X
RADIATION EQUIPMENT		TRASH CANS	
DOCUMENTATION FORMS		MASKING TAPE	
PORTABLE RATEMETER		DUCT TAPE	X
SCALER/RATEMETER		PAPER TOWELS	X
NaI Probe		FACE MASK	
ZnS Probe		FACE MASK SANITIZER	
GM Pancake Probe		FOLDING CHAIRS	
GM Side Window Probe		STEP LADDERS	
MICRO R METER		DISTILLED WATER	X
ION CHAMBER			
ALERT DOSIMETER			
MINI-RAD			

EQUIPMENT CHECKLIST

SAMPLING EQUIPMENT	NO.	MISCELLANEOUS (cont.)	NO.
4-OZ BOTTLES	X	BUNG WRENCH	
1 LITER AMBER BOTTLES		SOIL AUGER	
VOA BOTTLES		PICK	
SOIL SAMPLING (CORING) TOOL		SHOVEL	X
SOIL VAPOR PROBE		CATALYTIC HEATER	
THIEVING RODS WITH BULBS		PROPANE GAS	
SPOONS		BANNER TAPE	X
GENERAL TOOL KIT		SURVEYING METER STICK	
FILTER PAPER		CHAINING PINS AND RING	
PERSONAL SAMPLING PUMP SUPPLIES		TABLES	
4-OZ JARS	X	WEATHER RADIO	
		BINOCULARS	
VEHICLE EQUIPMENT		MEGAPHONE	
TOOL KIT	X	PORTABLE RADIOS (4)	
HYDRAULIC JACK		CELL PHONE	X
LUG WRENCH		CAMERA	X
TOW CHAIN		HEARING PROTECTION	X
VAN CHECK OUT			
GAS	X	SHIPPING EQUIPMENT	
OIL	X	COOLERS	X
ANTIFREEZE		PAINT CANS WITH LIDS, 7 CMIPS EACH	
BATTERY		VERMICULITE	
WINDSHIELD WASH	X	SHIPPING LABELS	X
TIRE PRESSURE		DOT LABELS: "DANGER", "UP";	
		"INSIDE CONTAINER COMPLIES...";	
MISCELLANEOUS		"HAZARD GROUP"	
PITCHER PUMP		STRAPPING TAPE	
SURVEYOR'S TAPE		BOTTLE LABELS	X
100 FIBERGLASS TAPE	X	BAGGIES	X
300 NYLON ROPE		CUSTODY SEALS	X
NYLON STRING		CHAIN-OF-CUSTODY FORMS	X
SURVEYING FLAGS		FEDERAL EXPRESS FORMS	X
FILM		CLEAR PACKING TAPE	X
WHEEL BARROW			

APPENDIX D

GENERIC NYSDOH COMMUNITY AIR MONITORING PLAN

Appendix 1A
New York State Department of Health
Generic Community Air Monitoring Plan

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical-specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or

overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed $150 \text{ mcg}/\text{m}^3$ above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than $150 \text{ mcg}/\text{m}^3$ above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within $150 \text{ mcg}/\text{m}^3$ of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

December 2009

ATTACHMENT 1: SPECIAL REQUIREMENTS CAMP

Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures

When work areas are within 20 feet of potentially exposed populations or occupied structures, the continuous monitoring locations for VOCs and particulates must reflect the nearest potentially exposed individuals and the location of ventilation system intakes for nearby structures. The use of engineering controls such as vapor/dust barriers, temporary negative-pressure enclosures, or special ventilation devices should be considered to prevent exposures related to the work activities and to control dust and odors. Consideration should be given to implementing the planned activities when potentially exposed populations are at a minimum, such as during weekends or evening hours in non-residential settings.

- If total VOC concentrations opposite the walls of occupied structures or next to intake vents exceed 1 ppm, monitoring should occur within the occupied structure(s). Background readings in the occupied spaces must be taken prior to commencement of the planned work. Any unusual background readings should be discussed with NYSDOH prior to commencement of the work.
- If total particulate concentrations opposite the walls of occupied structures or next to intake vents exceed 150 mcg/m³ (micrograms per cubic meter), work activities should be suspended until controls are implemented and are successful in reducing the total particulate concentration to 150 mcg/m³ or less at the monitoring point.
- Depending upon the nature of contamination and remedial activities, other parameters (e.g., explosivity, oxygen, hydrogen sulfide, carbon monoxide) may also need to be monitored. Response levels and actions should be pre-determined, as necessary, for each site.

Special Requirements for Indoor Work With Co-Located Residences or Facilities

Unless a self-contained, negative-pressure enclosure with proper emission controls will encompass the work area, all individuals not directly involved with the planned work must be absent from the room in which the work will occur. Monitoring requirements shall be as stated above under "Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures" except that in this instance "nearby/occupied structures" would be adjacent occupied rooms. Additionally, the location of all exhaust vents in the room and their discharge points, as well as potential vapor pathways (openings, conduits, etc.) relative to adjoining rooms, should be understood and the monitoring locations established accordingly. In these situations, it is strongly recommended that exhaust fans or other engineering controls be used to create negative air pressure within the work area during remedial activities. Additionally, it is strongly recommended that the planned work be implemented during hours (e.g. weekends or evenings) when building occupancy is at a minimum.

City of Rochester Division of Environmental Quality

Soil and Groundwater Management Plan

Initial Environmental Impact Documentation Form

This form must be completed by RPR or PM when environmental impact is encountered during intrusive work.

Project Name and Contact Number _____

Date/Time Prepared _____

Preparer's Name _____

Preparer's Company _____

Preparer's Phone Number _____

Preparer's Email _____

Project Name _____

Project Manager/Resident Project Representative _____

Provide information on subsequent pages for each location and/or type of environmental impact encountered during intrusive work on the above date.

Date of Encountered Impact: _____

Provide Information on ***First*** Type or Location of Environmental Impact Encountered

Does the impact contain or consist of fill material?..... yes/No

If yes, describe the fill material (e.g., C&D, wood, slag, ash, unknown, etc.): _____

Does the impact consist of soil?..... yes/No

Does the impact have an odor?..... yes/No

If yes, describe the odor (petroleum, chemical, sweet, septic/sanitary, etc.): _____

Was there evidence of stained soils or fill material?..... yes/No

If yes, describe the staining (colors, streaking, etc.): _____

Describe Location of Impact (provide construction stations, closest parcel street address, measurements from existing permanent Site features, identify on scaled architectural or engineer drawing, etc.):

Depth(s) to top of environmental impact from ground surface: _____

Depth(s) to bottom of environmental impact from ground surface (if known): _____

Was water encountered in the excavation?..... yes/No

If yes, depth(s) to top of water table from ground surface: _____

If yes, was there a sheen or free product on the top of excavation water?..... yes/No

If yes, was there an odor associated with the excavation water?..... yes/No

Date of Encountered Impact: _____

If Encountered, Provide Information of ***Second*** Type or Location of Environmental Impact

Does the impact contain or consist of fill material?..... yes/No

If yes, describe the fill material (e.g., C&D, wood, slag, ash, unknown, etc.): _____

Does the impact consist of soil?..... yes/No

Does the impact have an odor?..... yes/No

If yes, describe the odor (petroleum, chemical, sweet, septic/sanitary, etc.): _____

Was there evidence of stained soils or fill material?..... yes/No

If yes, describe the staining (colors, streaking, etc.): _____

Describe Location of Impact (provide construction stations, closest parcel street address, measurements from existing permanent Site features, identify on scaled architectural or engineer drawing, etc.):

Depth(s) to top of environmental impact from ground surface: _____

Depth(s) to bottom of environmental impact from ground surface (if known): _____

Was water encountered in the excavation?..... yes/No

If yes, depth(s) to top of water table from ground surface: _____

If yes, was there a sheen or free product on the top of excavation water?..... yes/No

If yes, was there an odor associated with the excavation water?..... yes/No

Date of Encountered Impact: _____

If Encountered, Provide Information of ***Third*** Type or Location of Environmental Impact

Does the impact contain or consist of fill material?..... yes/No

If yes, describe the fill material (e.g., C&D, wood, slag, ash, unknown, etc.): _____

Does the impact consist of soil?..... yes/No

Does the impact have an odor?..... yes/No

If yes, describe the odor (petroleum, chemical, sweet, septic/sanitary, etc.): _____

Was there evidence of stained soils or fill material?..... yes/No

If yes, describe the staining (colors, streaking, etc.): _____

Describe Location of Impact (provide construction stations, closest parcel street address, measurements from existing permanent Site features, identify on scaled architectural or engineer drawing, etc.):

Depth(s) to top of environmental impact from ground surface: _____

Depth(s) to bottom of environmental impact from ground surface (if known): _____

Was water encountered in the excavation?..... yes/No

If yes, depth(s) to top of water table from ground surface: _____

If yes, was there a sheen or free product on the top of excavation water?..... yes/No

If yes, was there an odor associated with the excavation water?..... yes/No

Date of Encountered Impact: _____

If Encountered, Provide Information of **Fourth** Type or Location of Environmental Impact

Does the impact contain or consist of fill material?..... yes/No

If yes, describe the fill material (e.g., C&D, wood, slag, ash, unknown, etc.): _____

Does the impact consist of Soil?..... yes/No

Does the impact have an odor?..... yes/No

If yes, describe the odor (petroleum, chemical, sweet, septic/sanitary, etc.): _____

Was there evidence of stained soils or fill material?..... yes/No

If yes, describe the staining (colors, streaking, etc.): _____

Describe Location of Impact (provide construction stations, closest parcel street address, measurements from existing permanent Site features, identify on scaled architectural or engineer drawing, etc.):

Depth(s) to top of environmental impact from ground surface: _____

Depth(s) to bottom of environmental impact from ground surface (if known): _____

Was water encountered in the excavation?..... yes/No

If yes, depth(s) to top of water table from ground surface: _____

If yes, was there a sheen or free product on the top of excavation water?..... yes/No

If yes, was there an odor associated with the excavation water?..... yes/No

Date of Encountered Impact: _____

Potentially Impacted Media Management

Where was potentially impacted media initially staged?

- ROW work corridor
Nearest Parcel Street Address : _____
- City-Owned Parcel within work corridor
Nearest Parcel Street Address : _____
- Nearby City-Owned Parcel (requires NYSDEC approval)
Nearest Parcel Street Address : _____

Who has been contacted regarding this potentially impacted media?

- Contractor
Name: _____
Phone #: _____
- RPR and/or City OM, City Inspector
Name: _____
Phone #: _____
- City DEQ
Name: _____
Phone #: _____
- NYSDEC (if deemed necessary)
Name: _____
Phone #: _____