# 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		

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# 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:

<u>Ash/Cinders/Slag/Coal/Foundry Sand Fill</u>: 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.

<u>Unknown Fill/Building Debris/Miscellaneous Debris</u>: 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.

<u>Ash/Cinders/Slag/Coal/Foundry Sand Fill</u>: 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.

<u>Unknown Fill/Building Debris/Miscellaneous Debris</u>: 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:



<u>Ash/Cinders/Slag/Coal/Foundry Sand Fill</u>: 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).

<u>Unknown Fill/Building Debris/Miscellaneous Debris</u>: 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.



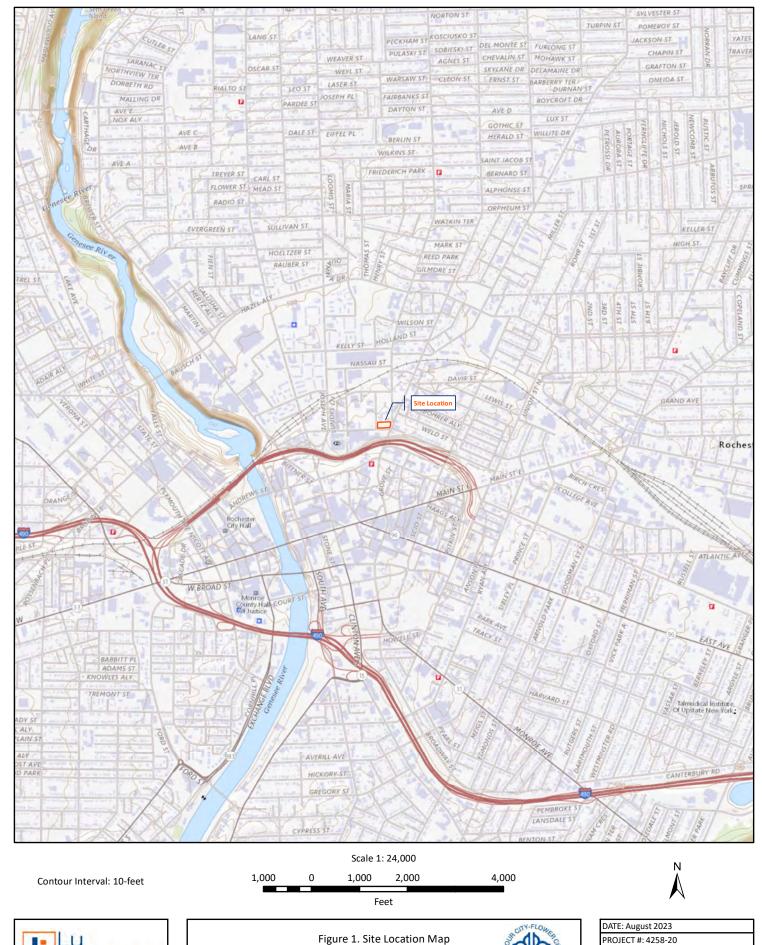


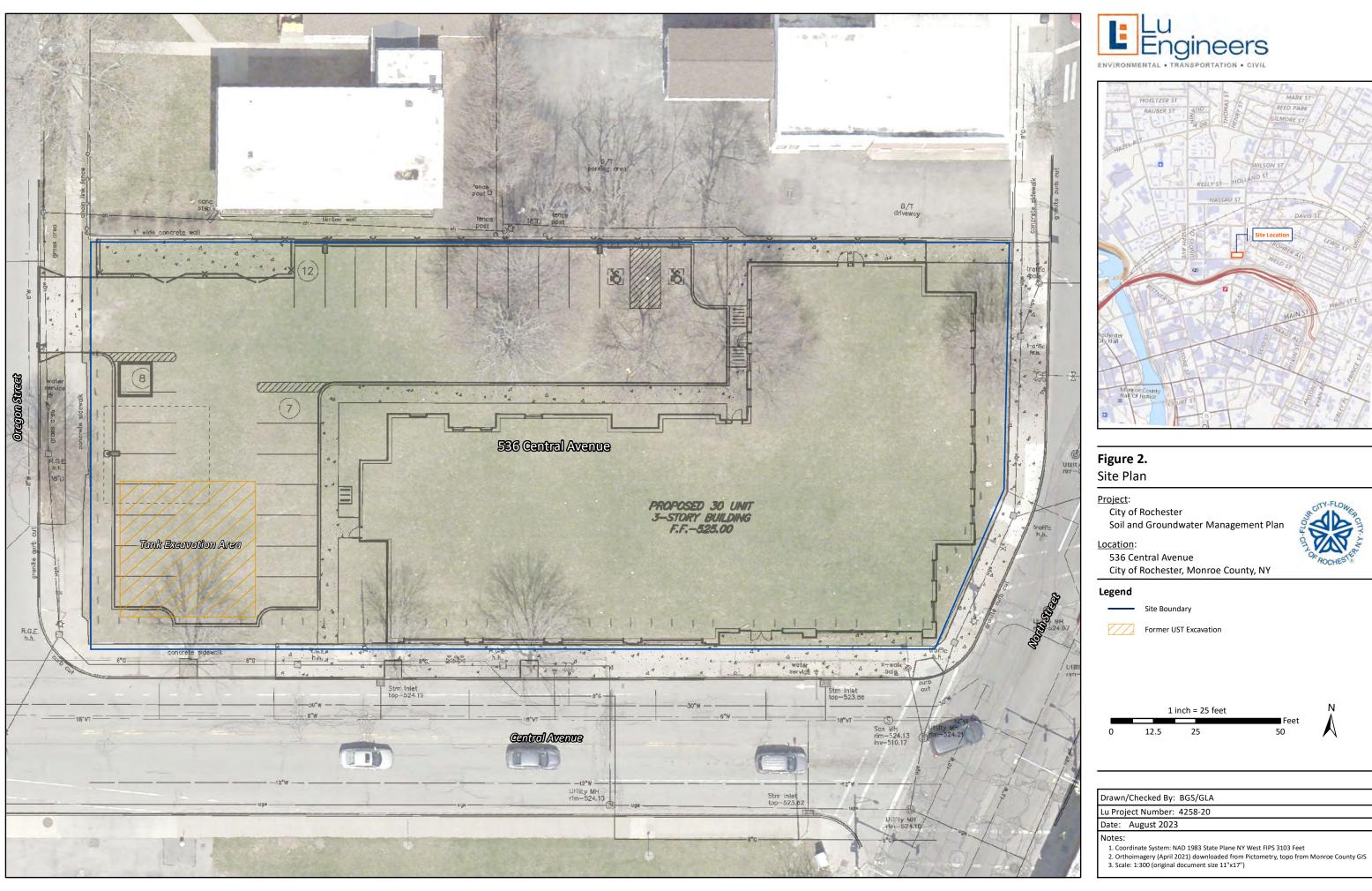


Figure 1. Site Location Map 536 Central Avenue City of Rochester, NY

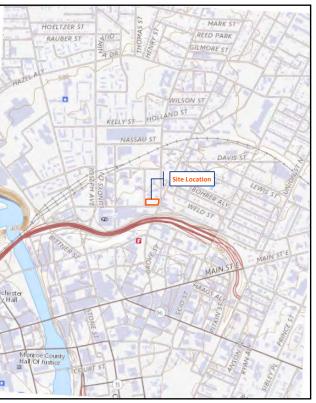


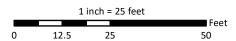
DATE: August 2023
PROJECT #: 4258-20
DRAWN/CHECKED: BGS/GLA
DATA SOURCE:

ESRI Online Basemap









# 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

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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 B-1 – Water Lab Report

Attachment B-2 – Sludge Lab Report

Attachment B-3 – Tank Bottom Soils Lab Report

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

Attachment D-1 – Tank Recycling Documentation Attachment D-2 – Non-hazardous Soil Disposal

Documentation

Attachment D-3 – Non-hazardous Water Disposal

Documentation

Attachment D-4 – Hazardous Sludge Disposal

# 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	<ul><li>TCL VOCs</li><li>TCLP RCRA Metals</li><li>PCBs</li><li>Ignitability</li></ul>
UST-04		Black, highly viscous, oily sludge with strong degraded petroleum odor	~220-gallons	<ul><li>TCL VOCs</li><li>TCLP RCRA Metals</li><li>PCBs</li><li>Ignitability</li></ul>
UST-05	48" x 5'5" (500- gallon)	Water and sediment	~161-gallons	Composite Sample
UST-06		Water and sediment	~135-gallons	- Benzene - Lead - Flashpoint
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 Contral Act (TCSA) 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 Regenesis 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	Waste Media Summary	
The excavated USTs, piping, and related appurtenances were recycled as part of tank closure.  Transported By: Trec Environmental  Disposal Facility: Metalico Rochester, Inc. 1515 Scottsville Road, Rochester, NY		Refer to Attachment D-1
Non-hazardous petroleum-impacted soils/RUCARBS	Soils/fill generated during excavation of the USTs with PID readings >25 ppm, as well as excess imported backfill material from CVMF.  Transported By: MJ Dreher Trucking, Inc. City of Rochester Water Bureau  Disposal Facility: Mill Seat Landfill 303 Brew Road, Bergen, NY  Disposal Quantities: Excavated Soils: 281.52-tons  Excess Imported Soils: 50.18-tons	Refer to Attachment D-2
Non-hazardous petroleum-impacted water		
Hazardous non-TSCA lead-impacted sludge	i cycle chem. Inc.	

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.

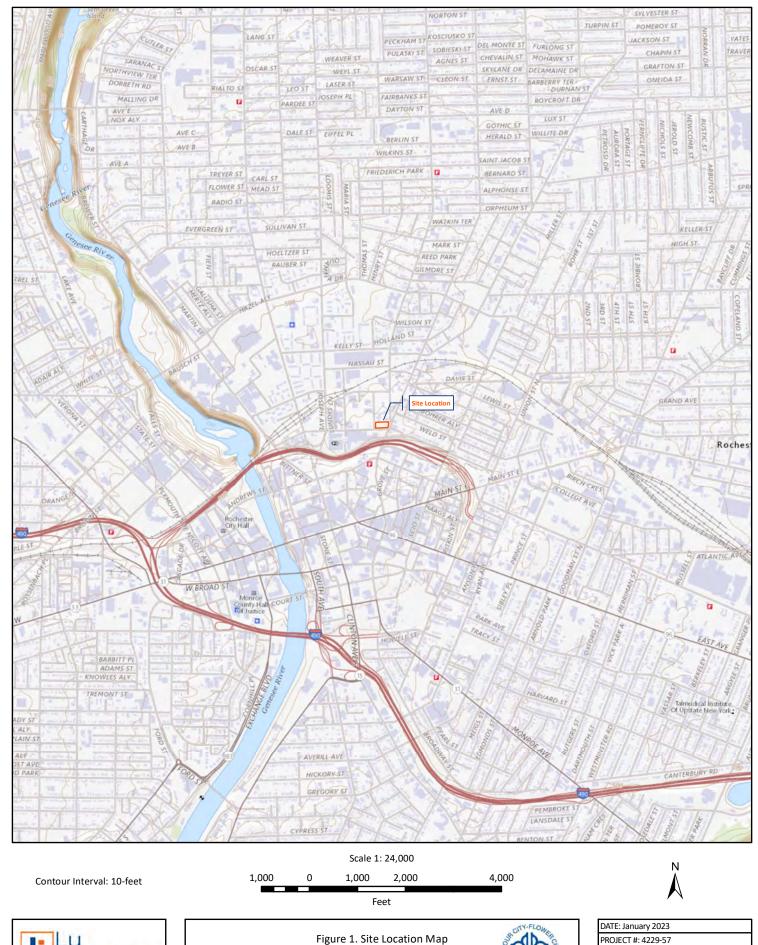


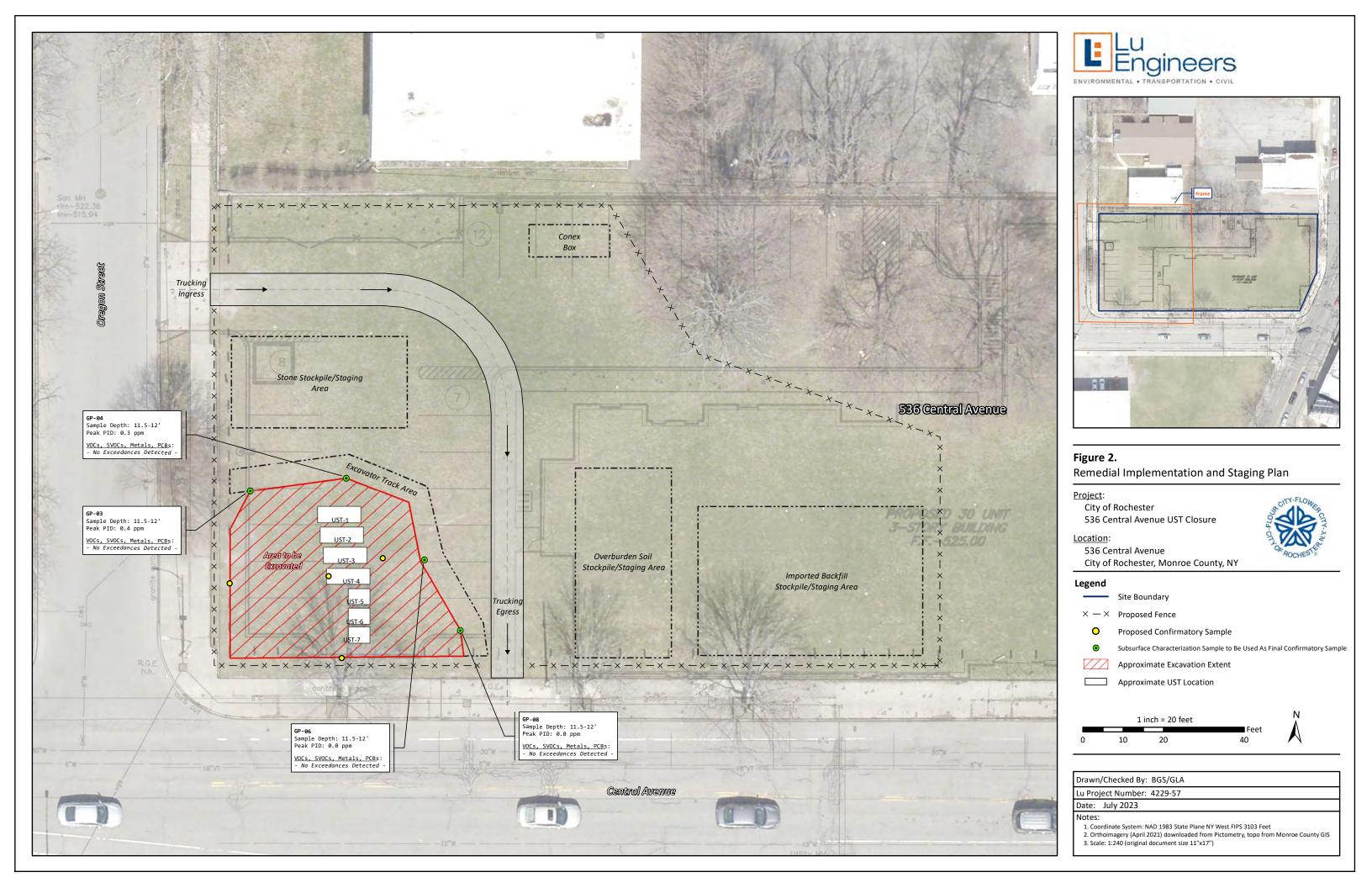


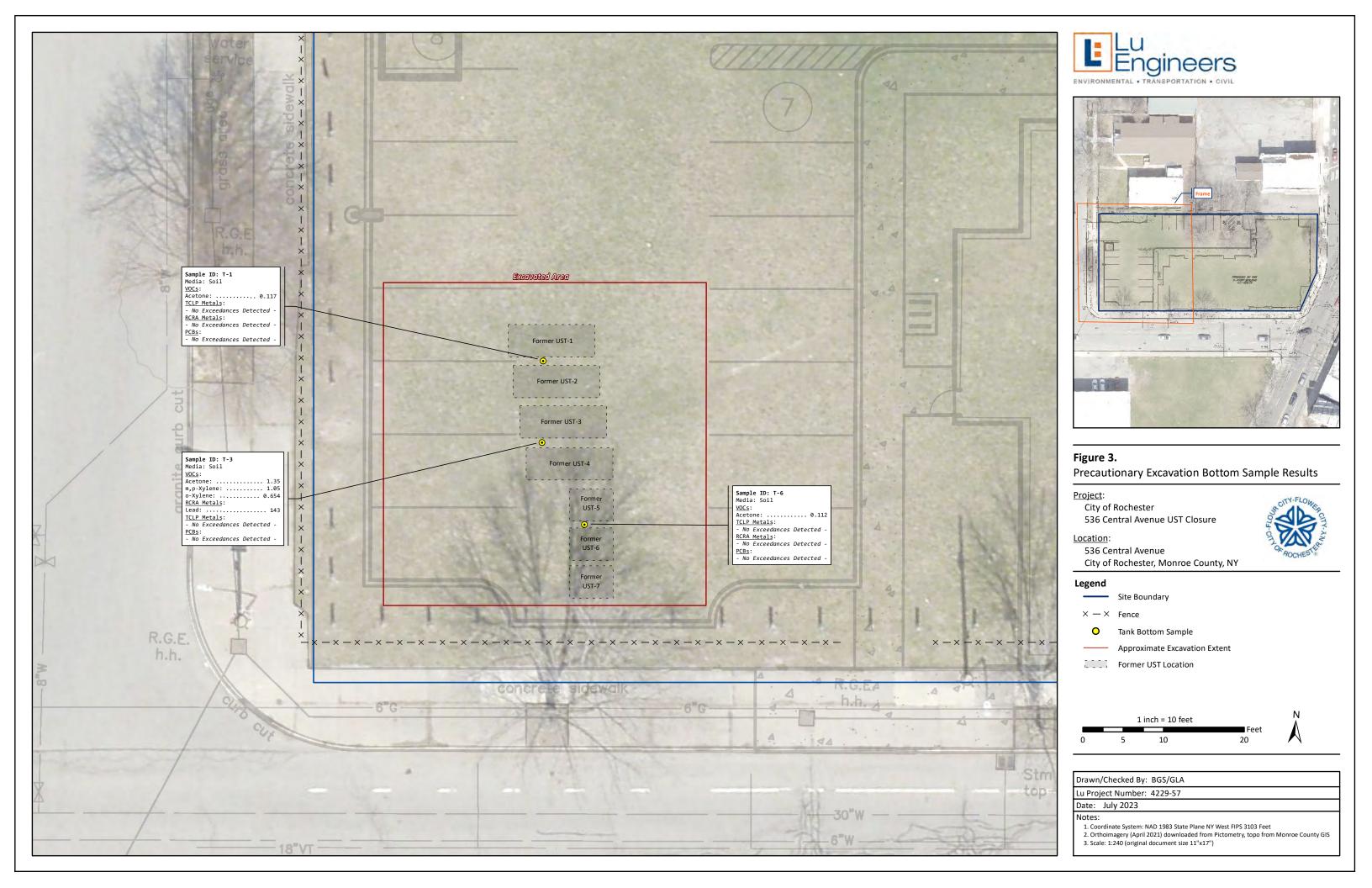
Figure 1. Site Location Map 536 Central Avenue City of Rochester, NY

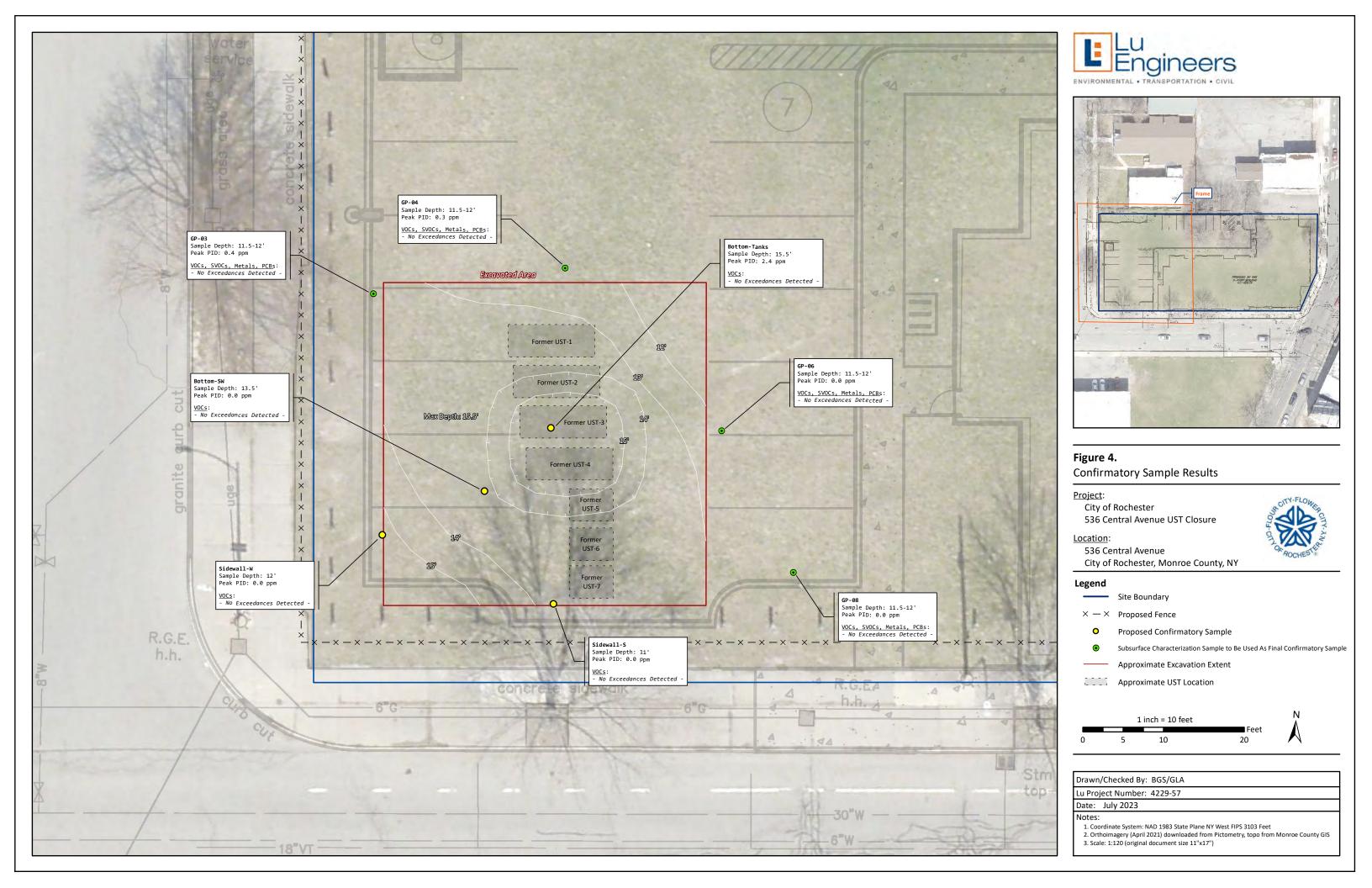


DATE: January 2023
PROJECT #: 4229-57
DRAWN/CHECKED: BGS/GLA
DATA SOURCE:

ESRI Online Basemap







# Table 1 – Water Sample Analytical Results

City of Rochester - 536 Central Avenue Tank Closure

Soil Sample Analytical Results	Sample ID:	UST-01			
	Sample Type:		Water		
Detected Parameters <sup>1</sup> :	Date:		4/20/2023		
EPA 8260 - VOCs	Regulatory Limit		Result		
EPA 8260 - VOCS	40 CFR 261.24	Result		ų	
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

Soil Sample Analytical Results	Sample ID:		UST	Г-03	UST-04			
Detected Parameters <sup>1</sup> :	Sample Type:	Sludge				Sludge		
Detected Parameters :	Date:		4/20/	/2023		4/20/	/2023	
EPA 8260 - TCL VOCs	Regulatory Limit		Result Q	Dilution (1/20)		Result Q	Dilution (1/20)	
ETA 5255 TEL VOES	40 CFR 261.24		nesun Q	Dilution (1/20)		nesuit Q	Dilution (1/20)	
1,1,1-Trichloroethane		٧	1.46		<b>'</b>	11.6		
1,1,2,2-Tetrachloroethane		٧	1.46		٧	11.6	-	
1,1,2-Trichloroethane		<b>'</b>	1.46		<	11.6		
1,1-Dichloroethane		<	1.46		<	11.6		
1,1-Dichloroethene	0.7	٧	1.46		٧	11.6	1	
1,2,3-Trichlorobenzene		٧	3.66		٧	29.0	1	
1,2,4-Trichlorobenzene		٧	3.66		٧	29.0		
1,2-Dibromo-3-Chloropropane		٧	7.32		٧	57.9	-	
1,2-Dibromoethane		٧	1.46		٧	11.6	-	
1,2-Dichlorobenzene			1.84	0.092	٧	11.6	-	
1,2-Dichloroethane	0.5	<b>'</b>	1.46		<	11.6		
1,2-Dichloropropane		<	1.46		<	11.6		
1,3-Dichlorobenzene		<	1.46		٧	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	<del></del>	<	3.66		<	29.0		
Bromodichloromethane		<	1.46		<	11.6		
Bromoform		<	3.66		<	29.0		
Bromomethane	<del></del>	<	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	<del></del>	<	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		È	21.2	1.06	È	65.9	3.30	
Methylene chloride	<del></del>	<	3.66		<	29.0		
o-Xylene	<del></del>	È	65.3	3.27	Ì	262	13.1	
Styrene	<del></del>	<	3.66		<	29.0		
Tetrachloroethene	0.7	<u> </u>	1.46		<	11.6		
Toluene		È	14.5	0.73	È	59.8	2.99	
trans-1,2-Dichloroethene	<del></del>	<	1.46		<	11.6		
trans-1,3-Dichloropropene	<del></del>	· ·	1.46		<	11.6		
Trichloroethene	0.5	<	1.46	 	<	11.6		
Trichlorofluoromethane	 	<	1.46		<	11.6		
Vinyl chloride	0.2				_			
viriyi cilioride	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



Soil Sample Analytical Results Sample ID:			UST	Г-03	UST-04				
Detected Parameters <sup>1</sup> :	Sample Type:		Slu	dge		Sludge			
Detected Parameters :	Date:		4/20,	/2023	4/20/2023				
EPA 6010 - TCLP RCRA Metals	Regulatory Limit		Result Q	Dilution (1/20)		Result Q	Dilution (1/20)		
LPA 0010 - TCLP RCRA Wetais	40 CFR 261.24		nesuit Q	Dilution (1/20)		nesuit Q	Dilution (1/20)		
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	٧	0.002		<	0.002			
EPA 8082 - Total PCBs									
PCB-1016		<	1.35		<	2.07			
PCB-1221		٧	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		٧	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)		N	ot Ignitable		N	ot 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

Soil Sample Analytical Results						Sample ID:	T-1	T-3	T-6
Detected Parameters:						Sample Type:	Soil	Soil	Soil
Detected Parameters:						Date:	5/17/2023	5/17/2023	5/17/2023
EPA 8260 - TCL VOCs <sup>1</sup>			NYSDEC Part 375 SCOs <sup>2</sup> Result Q Result Q Res			Result Q			
	Unrestricted	Residential	Restricted Res.	Commerical	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		1					< 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	1.0						< 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	0.26						< 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	0.93					0.93	< 0.00725	3.93	< 0.00672
Methylene chloride	0.05	51	100	500	1,000	0.05	< 0.00725	< 0.241	< 0.00672
o-Xylene	0.26	100	100	500	1,000	1.6		0.654	
Styrene							< 0.00725 < 0.0181	< 0.241	< 0.00672 < 0.0168
Tetrachloroethene	1.3	5.5	19	150	300	1.3	< 0.0181	< 0.241	< 0.0168
Toluene	0.7	100	100	500	1,000	0.7			
					·		< 0.00725		
trans-1,2-Dichloroethene	0.19	100	100	500	1,000	0.19	< 0.00725	< 0.0964	
trans-1,3-Dichloropropene					400		< 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 miligram 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						Sample ID:		T-1	T-3		T-6	
Detected Parameters:						Sample Type:	Soil		Soil		Soil	
Detected Parameters.						Date:	۵,	5/17/2023	5/17/2023		5/17/2023	,
EPA 6010 - RCRA Metals <sup>1</sup>			Part 37	5 SCOs <sup>4</sup>				Result Q	Result Q		Result	0
LPA 0010 - KCKA Wetais	Unrestricted	Residential	Restricted Res.	Commerical	Industrial	Prot. of GW		nesuit Q	nesure Q			
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	٧	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 <sup>1</sup>			Regulato	ory Limit <sup>3</sup>				Result Q	Result Q		Result	0
EPA 6010 - ICLP RCRA Metals					Result Q	Result Q	1	Result	ų			
Arsenic	5.0								< 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	$\Box$
Lead			5	.0				0.514	< 0.50	<	0.50	$\Box$
Selenium			1	.0			٧	0.20	< 0.20	<	0.20	_
Silver			5	.0			<	0.50	< 0.50	<	0.50	1
Mercury			0	.2			<	0.0020	< 0.002	<	0.002	
EPA 8082 - Total PCBs <sup>1</sup>		Part 375 SCOs <sup>4</sup>							Result Q		Result	$\overline{}$
EPA 8082 - Total PCBs	Unrestricted	Residential	Restricted Res.	Commerical	Industrial	Prot. of GW		Result Q	Result Q	1	Result	ď
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	П

### 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						Sample ID:	Bottom-Tanks	Bottom-SW	Sidewall-W	Sidewall-S
Detected Parameters:		Sample Type:							Soil	Soil
Detected Farameters.						Date:	5/23/2023	5/24/2023	5/25/2023	5/23/2023
EPA 8260 - TCL VOCs <sup>1</sup>			NYSDEC Par	t 375 SCOs²			Result Q	Result Q		Result Q
EPA 8260 - ICL VOCS	Unrestricted	Residential	Restricted Res.	Commerical	Industrial	Prot. of GW	Result Q Result C			Result Q
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 miligram 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: <a href="http://www.dec.ny.gov/chemical/287.html">http://www.dec.ny.gov/chemical/287.html</a>

	I for temporary tank system icable Program: PBS	** unless in re CBS	sponse to corrective ac  Facility	PBS or CBS Re		No.	or unregistered		
Site Name: 53	36 CENTRAL AVENUE			Contractor: TREC ENVIRONMENTAL					
	536 CENTRAL AVENUE		Address: 1018 W	/ASHING	TON STREET				
	cont): ROCHESTER, NY 14605		Address(cont): SP	ENCERPO	ORT, NY 14459				
Site Contact:	JANE FORBES		Contact:	HAMBLEY					
Phone Number: 585-428-7892 Cell Number: 585-314-1719				Phone Number: 58	5-594-554	45 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		UST single-walled		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		UST single walled	gasoline	1000	2109562	abandoned, out of service		
Comments (i	.e. piping/dispenser upgrade, prelim k removal)	inary site							
I hereby certify misdemeanor p	under penalty of law that the informat ursuant to Section 210.45 of the Penal	ion provided on Law.			and belief.	False statements made h			
Name of Own	ner or Authorized Representative	(print):	LIONDLO		Title:	ASSOCIATE ENVIRON	memar openaner		

Date 04/07/2023

Signature

# 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

application to work is compl submitted. Inf *not required	ent's Regional Office before work the Department with the completed in compliance with the application on the Chemical and Petro for temporary tank system icable Program: PBS	te tank inform ble PBS or CBS leum Bulk Stor	ation including the S regulations (i.e., Parage Programs be four ponse to corrective accounts to the state of	date the action wa rts 613 or 598/599) nd at: http://www.	s completed.  Any questi dec.ny.gov/cless immedia	The Owner is also res ons, call the Regional O hemical/287.html te action is required	ponsible to ensure that all		
Site Name: 53	36 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 Numbe	r: 585-428-7892 Cel	314-1719	Phone Number: 585-594-5545 Cell Number: 585-314-6189						
Email Address: Jane.Forbes@CityofRochester.Gov				Email Address: khambley@trecenv.com					
Tank	Type of Action	Proposed Date***	Tank Type (AST/ UST, Single-wall/	Product Stored	Capacity	Spill Number (if	Reason for Action		

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, prelim k removal)	inary site					

\*\*\*\* 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.	ne best of my knowledge and	Totale Statements made never are passesses as a comment
Name of Owner of Authorized Representative (print): JANE FORBES		Title: Associate Environmental Specialist
Signature Semmittel	Date 04/07/2023	Revised 12/14/2022 \$2 82



**PBS#:** 

8-601933

### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**Petroleum Bulk Storage Program Facility Information Report** 

Printed: 5/31/2023

pbsfacrpt foil.rpt

Page 1 of 1

**Site Information** 

**536 CENTRAL AVENUE 536 CENTRAL AVE ROCHESTER, NY 14605** 

Tax Map Information

**Site Owner Information CITY OF ROCHESTER** 

30 CHURCH STREET ROOM 300B

**ROCHESTER, NY 14614** 

**Mail Correspondent Information** CITY OF ROCHESTER

**30 CHURCH STREET ROOM 300B** 

**ROCHESTER, NY 14614** 

(585) 428-7892

Site Phone: (585) 428-7892 **Owner Type: Local Government** 

Boro/Sec.:

Block:

Lot:

**ATTN: JANE MH FORBES** 

(585) 428-7892

Town: Rochester (c)

**County: Monroe** Facility Operator: CITY OF ROCHESTER - DEQ

Authorized Representative: JANE MH FORBES

**Emergency Contact: JANE MH FORBES** 

Emergency Phone: (585) 428-7892

		nregulated/Cl nicipality (Inc							Cert Pri Issued:		2023 T	T otal A			Tank			Last In: Inspect	•	:		
(2) Tank No		(4) (5) Status <u>Date</u> Instal		(6) Capacity (gals)				(10) Tank EP	(11) <u>Tank</u> <u>SC</u>	(12) Tank LD	(13) <u>Tank</u> <u>OP</u>	(14) <u>Tank</u> <u>SP</u>		(16) Pipe		(18) <u>Pipe</u> EP	(19) <u>Pipe</u> SC	(20) <u>Pipe</u> <u>LD</u>	(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		Test	Test	CITY OF ROCHESTE
Subpart: 2	_	Category: 1	0.7/0.0/0.00	1,000	0000				00			0.0	0.0	0.0	00			00 !				
002 Subpart: 2	5	3 11/03/1950 Category: 1	05/08/2023	1,000	0009	01	00	00 :	00	00 :	00 :	00	00	00	00	00	00	00				CITY OF ROCHESTE
003	5	3 11/03/1950	05/09/2022	1,000	0009	01	00	00	00	00	00	00	00	00	00	00	00	00				CHEV OF
003	3	3 11/03/1950	05/08/2023	1,000	0007	VI	UU	<b>UU</b> .	00 .	00 .	00 ,	UU	UU	UU	UU	UU .	UU	UU ,				CITY OF ROCHESTE
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				CITY OF ROCHESTE
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				CITY OF ROCHESTE
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				CITY OF ROCHESTE
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				CITY OF ROCHESTE
Subpart: 2		Category: 1																				

### 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
- 0005. #01 uci O
- 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 Allov
- 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. Presurized Dispenser
- 02. Suction Dispenser
- 03. Gravity
- 04. On-Site Heating System (Suction)
- 05. On-Site Heating System (Supply/Return)
- 06. Tank-Mounted Dispenser07. Loading Rack/Transfer Pump

# Piping Location (16)

- 00. No Piping
- ou. No riping
- 01. Aboveground02. Underground/On-ground
- 03. Aboveground/Underground

# Combination Piping Type (17)

- 00. None
- 01. Steel/Carbon Steel/Iron
- 02. Galvanized Steel03. Stainless Steel Alloy
- 04. Fiberglass Coated Steel
- 05. Steel Encased in Concrete06. Fiberglass Reinforced Plastic
- (FRP)
- 07. Plastic
- 08. Equivalent Technology09. 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. Insterstitial 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:\*

# <u>Under Dispenser Containment</u> (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.



PBS Number:

New York State Department of Environmental Conservation Division of Environmental Remediation

# **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

Section A - Facility/Property Owner/Contact Information Expiration Date:

Transaction Type: 1/3		Facility Name: 536 CENTRAL A	VENUE			Tax Map Info 106.644		TYPE OF PETROLEUM FACILITY (Chec 01=Storage Terminal/Petrol. Distributor	ck only one) 02=Retail Gasoline Sales					
1) Initial/New	F	Facility Address (Physical Ad 536 CENTRAL A		Boxes):	I	Block: 2			04=Manufacturing 06=Trucking/Transportation/Fleet					
Facility 2) Change of	С	Facility Address (cont.):			I	Lot 70		07=Apartment/Office Building	08=School 10=Private Residence					
Ownership 3) Tank	1	City: ROCHESTER	Tours		State: NY	ZIP Code: 14605		☐ 09—rarm ☐ 11=Airline/Air Taxi/Airport ☐ 13=Municipality ☐ [	12=Chemical Distributor					
Installation, Closing, or Repair	L	County: MONROE	Townshi	HESTER		Facility Phone Nur 585-428-7892	moer:	25=Auto Service/Repair (No Gasoline Sales)	28=Cemetery/Memorial					
4) Information Correction 5) Renewal	T Y	Facility Operator:  CITY OF ROCHESTER	₹-DEQ					26=Religious (Church, Synagogue, Mosque 27=Hospital/Nursing Home/Health Care 53=Nuclear Power Plant 99=Other (Specify): Emergency Contact Name:	52=Marina  Emergency Telephone Number:					
NOTE:		Facility (Property) Owner (from	n Deed):					JANE MH FORBES	585-428-7892					
Fill in Property	0	CITY OF ROCHESTER Facility Owner Address (Street 30 CHURCH STREET RO		Box):				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.						
Owner information	W	City: ROCHESTER		State: NY	1	P Code: 4614		Name of Owner or Authorized Representative:	Amount Enclosed: \$ 500.00					
here>>> Indicate Tank	E	Owner Telephone Number: 585-428-7892					1	Title:  ASSOCIATE ENVIRONMENTAL SPECIALIST						
Owner in Section C.	R	Type of Owner (check only one 1 Private Resident 2 State Government		3	Gove		S	Signature: Jamon Her	Date: 04/10/2023					
Official Use Only Date Received:	C O R	(Please keep this information u Facility Contact Person Name:		MH FORBES										
// Date Processed:	R E	Contact Person Company Nam	e: JANE	MH FORBES										
	S P	Address: 30 CHURCH S	TREET ROO	M 300B										
Amount Received: \$	O N D E	Address (cont.):  City/State/ZIP Code: ROC	HESTER, NY	14614										
Reviewed By:	NCE	Tel. Number: 585_428_780		14014		e	Mail Add	ress: Jane.Forbes@CitvofRochester.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 Profection	Piping Secondary Containment		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	
1	002	5	2	11/03/1950	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	
1	003	5	2	11/03/1950	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	
1	004	5_	2	11/03/1950	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	
1	005	5	2	11/03/1950	1000	009	01	00	00	00	00	00	00	00	00_	00	00	00	00	
1	.006	5	2	11/03/1950	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	
1	007	5	2	11/03/1950	1000	009	01	00	00	00	00 :	00	00	00	00_	00	00	00	00	
										:		1								
3	001	5	3_	05/18/2023	1000	009	01	00	00	00	00	00	00	00	00	00	00	00_	00 :	
3	002	5	3	05/18/2023	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	
3	003	5	3	05/18/2023	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	
3	004	5	3	05/18/2023	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	
3	005	5	3	05/18/2023	1000	009	01	00	00	00	00	00	00	00	00	00	00 -	00	00	
3	006	5	3	05/18/2023	1000	009	01	00	00	00	00	00	00	00	00	00	00	00	00	
3	007	5	3	05/18/2023	1000	009	01	00	00	00	00	00	00	00	00	00	00 :	00	00	
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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 <a href="http://www.dec.ny.gov/docs/remediation-hudson-pdf/pbsrenewal.pdf">http://www.dec.ny.gov/docs/remediation-hudson-pdf/pbsrenewal.pdf</a>

PBS Number:

# **Petroleum Bulk Storage Application**

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

Tank Owner Information  Check box if same as Facility (Property) Owner.  If tank owner is different from property owner, fill out information below:					Tank Owner Information  Check box if same as Facility (Property) Owner.  If tank owner is different from property owner, fill out information below:							
Tank Owner Name (Company/Individu CITY OF ROCHESTER	al):				Tank C	Owner Name (Company/Individu	al):					
Contact Person:					Contact Person:							
JANE MH FORBES												
Tank Owner Address:					Tank C	Owner Address:						
CITY HALL 30 CHURCH STREET ROOM 300B												
City: ROCHESTER	OCHESTER State: NY ZIP: 14614		14614	City: State:				ZIP:	ZIP:			
Contact Person Telephone Number:		tact Person ema			Contac	t Person Telephone Number:	Con	tact Person ema	ail:			
585-428-7892	Jane	e.Forbes@Ci	tyofRo	chester.Gov	<u> </u>							
X Check box if this owned If not, list tanks o	er own			ty.		Check box if this owned	er owr			y.		
Tank Number:					Tank N	Jumber:						
Name of Class B (Daily On-Site) Operator:	N/A	1		Authorization No:	Name o	f Class B (Daily On-Site) Operator:				Authorization No:		
Name of Class A (Primary) Operator:  N/A  Authorization No			Authorization No:	Name o	f Class A (Primary) Operator:				Authorization No:			
							·					
							T					

# 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 Allov
- 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)

- 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. Presurized 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. Insterstitial 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,
- \*\* Fach of these codes must be combined with code 01 or 06 to meet compliance requirements.

# **Attachment B-1**

Tank Water Laboratory Report



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.

Enily Farmen

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



Client: <u>Lu Engineers, Inc.</u>

**Project Reference:** Central Ave 4229-57

**Sample Identifier:** UST - Water - 01

**Lab Sample ID:** 231720-01 **Date Sampled:** 4/20/2023 11:20

Matrix: 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.

<u>Metals</u>

<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:

4/28/202 230501A

### **Volatile Organics**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>		<u>Qualifier</u>	<u>Date Ai</u>	<u>nalyzed</u>
Benzene	< 1.00	ug/L			4/28/20	23 15:34
Surrogate	Percer	ıt Recovery	<u>Limits</u>	<b>Outliers</b>	<b>Date An</b>	alyzed
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.

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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.
- "I" = 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.

# 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, tern 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 wi 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 reperform 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.



# CHAIN OF CUSTODY

OH/20/23	DATE COLLECTED		4229-57	PROJEC		1		The state of the s	PAR
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# Chain of Custody Supplement

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# **Attachment B-2**

Tank Sludge Laboratory Report



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.

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

Emily Fa

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



Client: <u>Lu Engineers, Inc.</u>

**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>	<b>Date Analyzed</b>
Ignitability	No Burn	mm / sec		5/2/2023

Method Reference(s): EPA 1030

### **PCBs**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>		<b>Qualifier</b>	Date Ar	nalyzed
PCB-1016	< 1.35	mg/Kg			5/3/20	23 08:34
PCB-1221	< 1.35	mg/Kg			5/3/20	23 08:34
PCB-1232	< 1.35	mg/Kg			5/3/20	23 08:34
PCB-1242	< 1.35	mg/Kg			5/3/20	23 08:34
PCB-1248	4.78	mg/Kg			5/3/20	23 08:34
PCB-1254	< 1.35	mg/Kg			5/3/20	23 08:34
PCB-1260	9.25	mg/Kg			5/3/20	23 08:34
PCB-1262	< 1.35	mg/Kg			5/3/20	23 08:34
PCB-1268	< 1.35	mg/Kg			5/3/20	23 08:34
<u>Surrogate</u>	Percen	t Recovery	<u>Limits</u>	<b>Outliers</b>	Date An	alyzed
Tetrachloro-m-xylene		NC	10 - 110		5/3/2023	08:34

Method Reference(s): EPA 8082A

EPA 3546 4/27/2023

**Preparation Date:** 4/27/202

### **Volatile Organics**

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	<b>Date Analyzed</b>
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



Client: <u>Lu Engineers, Inc.</u>

**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



Client: <u>Lu Engineers, Inc.</u>

**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

<u>Surrogate</u>	Percent	Recovery	<u>Limits</u>	<u>Outliers</u>	<b>Date Analy</b>	zea
Vinyl chloride	< 1460	ug/Kg	Limita	041:	5/1/2023	
Trichlorofluoromethane	< 1460	ug/Kg			5/1/2023	
Trichloroethene	< 1460	ug/Kg			5/1/2023	
trans-1,3-Dichloropropene	< 1460	ug/Kg			5/1/2023	
trans-1,2-Dichloroethene	< 1460	ug/Kg			5/1/2023	
Toluene	14500	ug/Kg			5/1/2023	15:06
Tetrachloroethene	< 1460	ug/Kg			5/1/2023	15:06
Styrene	< 3660	ug/Kg			5/1/2023	15:06
o-Xylene	65300	ug/Kg			5/1/2023	15:06
Methylene chloride	< 3660	ug/Kg			5/1/2023	15:06
Methylcyclohexane	21200	ug/Kg			5/1/2023	15:06
Methyl tert-butyl Ether	< 1460	ug/Kg			5/1/2023	15:06
Methyl acetate	< 1460	ug/Kg			5/1/2023	15:06
m,p-Xylene	122000	ug/Kg			5/1/2023	15:06
Isopropylbenzene	6050	ug/Kg			5/1/2023	15:06

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date An	alyzed
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.

Central Ave 4229-57 **Project Reference:** 

Sample Identifier: UST-03

**Date Sampled:** 4/20/2023 Lab Sample ID: 231666-01A 11:45

**Matrix: TCLP Extract Date Received** 4/25/2023

### TCLP Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Regulatory Limit Qualifier	<b>Date Analyzed</b>
Mercury	< 0.00200	mg/L	0.2	5/3/2023 08:41

Method Reference(s):

EPA 7470A

EPA 1311

**Preparation Date:** Data File:

5/2/2023

Hg230503A

### TCLP RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Regulatory Limit Qualifier	<b>Date Analyzed</b>
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: <u>Lu Engineers, Inc.</u>

**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>	<b>Qualifier</b>	<b>Date Analyzed</b>
Ignitability	No Burn	mm / sec		5/2/2023

Method Reference(s): EPA 1030

### **PCBs**

<u></u>						
<u>Analyte</u>	<u>Result</u>	<u>Units</u>		<b>Qualifier</b>	<u>Date Aı</u>	nalyzed
PCB-1016	< 2.07	mg/Kg			5/3/20	23 08:57
PCB-1221	< 2.07	mg/Kg			5/3/20	23 08:57
PCB-1232	< 2.07	mg/Kg			5/3/20	23 08:57
PCB-1242	< 2.07	mg/Kg			5/3/20	23 08:57
PCB-1248	6.08	mg/Kg			5/3/20	23 08:57
PCB-1254	< 2.07	mg/Kg			5/3/20	23 08:57
PCB-1260	6.79	mg/Kg			5/3/20	23 08:57
PCB-1262	< 2.07	mg/Kg			5/3/20	23 08:57
PCB-1268	< 2.07	mg/Kg			5/3/20	23 08:57
<u>Surrogate</u>	Percen	t Recovery	<u>Limits</u>	<b>Outliers</b>	<b>Date An</b>	alyzed
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**

Analyte	Result	<u>Units</u>	Qualifier	Date Analyzed
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



Client: <u>Lu Engineers, Inc.</u>

**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-Dibrom	o-3-Chloropropane	< 57900	ug/Kg	5/2/2023 12	:01
1,2-Dibrom	oethane	< 11600	ug/Kg	5/2/2023 12	:01
1,2-Dichlor	obenzene	< 11600	ug/Kg	5/2/2023 12	:01
1,2-Dichlor	oethane	< 11600	ug/Kg	5/2/2023 12	:01
1,2-Dichlor	opropane	< 11600	ug/Kg	5/2/2023 12	:01
1,3-Dichlor	obenzene	< 11600	ug/Kg	5/2/2023 12	:01
1,4-Dichlor	obenzene	< 11600	ug/Kg	5/2/2023 12	:01
1,4-Dioxane	ė	< 57900	ug/Kg	5/2/2023 12	:01
2-Butanone		< 57900	ug/Kg	5/2/2023 12	:01
2-Hexanone	ė	< 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
Bromochlor	romethane	< 29000	ug/Kg	5/2/2023 12	:01
Bromodichl	loromethane	< 11600	ug/Kg	5/2/2023 12	:01
Bromoform	ı	< 29000	ug/Kg	5/2/2023 12	:01
Bromometh	nane	< 11600	ug/Kg	5/2/2023 12	:01
Carbon disu	ılfide	< 11600	ug/Kg	5/2/2023 12	:01
Carbon Teti	rachloride	< 11600	ug/Kg	5/2/2023 12	:01
Chlorobenz	ene	< 11600	ug/Kg	5/2/2023 12	:01
Chloroethai	ne	< 11600	ug/Kg	5/2/2023 12	:01
Chloroform		< 11600	ug/Kg	5/2/2023 12	:01
Chlorometh	nane	< 11600	ug/Kg	5/2/2023 12	:01
cis-1,2-Dich	lloroethene	< 11600	ug/Kg	5/2/2023 12	:01
cis-1,3-Dich	nloropropene	< 11600	ug/Kg	5/2/2023 12	:01
Cyclohexan	e	< 57900	ug/Kg	5/2/2023 12	:01
Dibromochl	loromethane	< 11600	ug/Kg	5/2/2023 12	:01
Dichlorodif	luoromethane	< 11600	ug/Kg	5/2/2023 12	:01
Ethylbenzer	ne	33700	ug/Kg	5/2/2023 12	:01
Freon 113		< 11600	ug/Kg	5/2/2023 12	:01



Client: <u>Lu Engineers, Inc.</u>

**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

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

<u>Surrogate</u>	Percent Recovery	<b>Limits</b>	<b>Outliers</b>	Date An	alyzed
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.

Central Ave 4229-57 **Project Reference:** 

Sample Identifier: UST-04

**Date Sampled:** 4/20/2023 Lab Sample ID: 231666-02A 12:00

**Matrix: TCLP Extract Date Received** 4/25/2023

### TCLP Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Regulatory Limit Qualifier	<b>Date Analyzed</b>
Mercury	< 0.00200	mg/L	0.2	5/3/2023 08:43

Method Reference(s):

EPA 7470A

EPA 1311

**Preparation Date:** Data File:

5/2/2023

Hg230503A

### TCLP RCRA Metals (ICP)

Analyte	<u>Result</u>	<u>Units</u>	Regulatory Limit Qualifier	<b>Date Analyzed</b>
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

EPA 6010C Method Reference(s):

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.
- "I" = 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.

# 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, tern 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 wi 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 reperform 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.





Standard 5 day  None Required  10 day  Batch QC  Rush 3 day  Category A  Rush 2 day  Other  Other  Please indicate date needed:  Description:  Other  Please indicate package needed:	Turnaround Time Report Supplements Availability contingent upon lab approval; additional fees may apply.			04/20/23 11:45 V	COLLECTED	Central Anc 4229-57		PARADIGM
None Required  Basic EDD  NYSDEC EDD  Other EDD  please indicate EDD needed:	Report Supplements roval; additional fees may apply.		势	vst-04	SAMPLE IDENTIFIER	Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid		REPORT TO:  Ly Englands  State: No. 1 State: No. 2 State:
Received By  Received Cab By  Pate/Time  Pate/Time Pate/Time Pate/Time Pate/Time Pate/Time Pate/Time Pate/Time Pate/Time Pate/Time Pate/Time Pate/Time Pate/Time Pate	S			SL 2 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	W 2 111 2 - 2 - 1 2 0 0		ATTN:	170 HZ
Date/Time  O4   25   23   15: 22  Pate/Time  Date/Time  Date/Time  Date/Time  Date/Time  Paradigm Terms and Conditions (reverse).  Paradigm Terms and Conditional page for sample conditions.	04/20/23 12:10	10 4/25/23 Cx+/act	Sumples have Strong adver	Jar labeled 4	20 0K pc (SD 00 4 125 123 REMARKS	30 - Soil 3L - Sludge	Email:	LAB PROJECT ID  2 3 1 6 6 6  ZIP: Quotation #:
ditions.	<b>N</b>			014	PARADIGM LAB SAMPLE NUMBER	OL - Oil AR - Air	s com	



# **Chain of Custody Supplement**

Client:	Lu Engineers	Completed by:	Glenn Pezzulo
Lab Project ID:	231666	Date:	4/26/23
		on Requirements 0/241/242/243/244	
Condition	NELAC compliance with the sample of Yes	condition requirements No	upon receipt N/A
Container Type		€035	
Comments			
Transferred to method- compliant container			
Headspace (<1 mL) Comments			
Preservation  Comments			
Chlorine Absent (<0.10 ppm per test strip) Comments			
Holding Time Comments			
<b>Temperature</b> Comments	2°C : ed - 4/25/23	3°C ic	ed -4/26/23
Compliant Sample Quantity/T	Гуре		

# **Attachment B-3**

Soil Bottom Samples Laboratory Report



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.

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

Emily Farm



Client: <u>Lu Engineers, Inc.</u>

**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>	<b>Qualifier</b>	<b>Date Analyzed</b>
Mercury	0.0517	mg/Kg	DM	5/18/2023 08:55

Method Reference(s):EPA 7471BPreparation Date:5/17/2023Data File:Hg230518A

### **RCRA Metals (ICP)**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<b>Qualifier</b>	<b>Date Analyzed</b>
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**

Analyte	Result	<u>Units</u>	Qualifier	<b>Date Analyzed</b>
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



Client: <u>Lu Engineers, Inc.</u>

**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

SurrogatePercent RecoveryLimitsOutliersDate AnalyzedTetrachloro-m-xylene32.810 - 1105/18/202310:30

Method Reference(s):

EPA 8082A

EPA 3546

**Preparation Date:** 

5/17/2023

### **Volatile Organics**

Analyte	<u>Result</u>	<u>Units</u>	Qualifier Date Analyzed
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



Client: <u>Lu Engineers, Inc.</u>

**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



Client: <u>Lu Engineers, Inc.</u>

**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

Surrogate	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	<u>Date An</u>	<u>alyzed</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: <u>Lu Engineers, Inc.</u>

**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>	Regulatory Limit Qualifier	<b>Date Analyzed</b>
Mercury	< 0.00200	mg/L	0.2	5/18/2023 13:08

Method Reference(s):

EPA 7470A

EPA 1311

Preparation Date: Data File: 5/18/2023 Hg230518B

### TCLP RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Regulatory Limit Qualifier	<b>Date Analyzed</b>
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: <u>Lu Engineers, Inc.</u>

**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 7471BPreparation Date:5/17/2023Data File:Hg230518A

RCRA Metals (ICP)

**Analyte** Result **Units Oualifier Date Analyzed** 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 5/18/2023 10:24 mg/Kg Selenium < 1.04 mg/Kg 5/18/2023 10:24 Silver < 0.519 5/18/2023 10:24 mg/Kg

**Method Reference(s):** EPA 6010C

EPA 3050B

Preparation Date: 5/17/2023 Data File: 230518A

### **PCBs**

Analyte	Result	<u>Units</u>	Qualifier	Date Analy	zed
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



Client: <u>Lu Engineers, Inc.</u>

**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

SurrogatePercent RecoveryLimitsOutliersDate AnalyzedTetrachloro-m-xylene55.110 - 1105/18/202310:53

Method Reference(s):

EPA 8082A

EPA 3546

**Preparation Date:** 

5/17/2023

### **Volatile Organics**

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



Client: <u>Lu Engineers, Inc.</u>

**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

			<del></del>
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



Client: <u>Lu Engineers, Inc.</u>

**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

Surrogate	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date An	<u>alyzed</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: <u>Lu Engineers, Inc.</u>

**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>	Result Units		Regulatory Limit Qualifier	<b>Date Analyzed</b>	
Mercury	< 0.00200	mg/L	0.2	5/18/2023 13:10	

Method Reference(s):

EPA 7470A

EPA 1311

Preparation Date: Data File: 5/18/2023

Hg230518B

### TCLP RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Regulatory Limit Qualifier	<b>Date Analyzed</b>
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: <u>Lu Engineers, Inc.</u>

**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** 

Analyte Result Units Qualifier Date Analyzed

Mercury 0.00854 mg/Kg 5/18/2023 09:04

Method Reference(s):EPA 7471BPreparation Date:5/17/2023Data File:Hg230518A

RCRA Metals (ICP)

**Analyte** Result **Units Oualifier Date Analyzed** Arsenic 3.87 mg/Kg 5/18/2023 10:27 37.5 Barium mg/Kg 5/18/2023 10:27 Cadmium < 0.272 mg/Kg 5/18/2023 10:27 Chromium 8.73 5/18/2023 10:27 mg/Kg Lead 11.3 5/18/2023 10:27 mg/Kg Selenium < 1.09 mg/Kg 5/18/2023 10:27 Silver 5/18/2023 10:27 < 0.544 mg/Kg

**Method Reference(s):** EPA 6010C

EPA 3050B

 Preparation Date:
 5/17/2023

 Data File:
 230518A

### **PCBs**

Analyte	Result	<u>Units</u>	Qualifier	Date Analyzed
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



Client: <u>Lu Engineers, Inc.</u>

**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

SurrogatePercent RecoveryLimitsOutliersDate AnalyzedTetrachloro-m-xylene47.410 - 1105/18/202311:16

Method Reference(s):

EPA 8082A

EPA 3546

**Preparation Date:** 

5/17/2023

### **Volatile Organics**

<u>Analyte</u>	Result	<u>Units</u>	Qualifier Date Analyzed
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



Client: <u>Lu Engineers, Inc.</u>

**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



Client: <u>Lu Engineers, Inc.</u>

**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

Surrogate	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date An	<u>alyzed</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: <u>Lu Engineers, Inc.</u>

**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>	Result <u>Units</u>		Regulatory Limit Qualifier	<b>Date Analyzed</b>		
Mercury	< 0.00200	mg/L	0.2	5/18/2023 13:12		

Method Reference(s):

EPA 7470A

EPA 1311

Preparation Date: Data File: 5/18/2023

Hg230518B

### TCLP RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Regulatory Limit Qualifier	<b>Date Analyzed</b>
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: <u>Lu Engineers, Inc.</u>

**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 7471BPreparation Date:5/17/2023Data File:Hg230518AQC 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 232065

Lab Project ID:

Matrix:

Soil

	Mercury	Analyte	Mercury
Method Reference(s): Preparation Date: Data File: QC Number: QC Batch ID:	0.0800	LCS Added	
	0.0787	LCSD Added	
EPA 7471B 5/17/2023 Hg230518A 1 QC230517Hgsoil2	mg/Kg	Spike Units	
	0.0834 0.0823	LCS Result	
	0.0823	LCSD Result	
	104	LCS % Recovery	
	105	LCSD % Recovery	
	80 - 120	% Rec Limits	
		LCS Outliers	
		LCSD Outliers	
	0.361	LCS LCSD Relative % Outliers Outliers Difference	
	20	RPD Limit	
		RPD Outliers	
	5/18/2023	Date Analyzed	

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



## QC Report for Sample Spike and Sample Duplicate

Client: Lu Engineers, Inc. Lab Project ID: 232065

**Project Reference:** 4229-57

		Mercury	Analyte	Mercury	Lab Sample ID: Sample Identifier: Matrix:
QC Batch ID:	Method Reference(s): Preparation Date:				ole ID: dentifier:
	ce(s): e:	0.0517	Sample Results		232065-01 T-1 Soil Soil
Hg230518A QC230517Hgsoil2	EPA 7471B 5/17/2023	mg/Kg	Result Units		65-01 oil
oil2		0.0874	Spike Added		
		0.297	Spike Result		
		281	Spike % Recovery		
		75 - 125	% Rec Limits		
		*	Spike Outliers		
		0.0371	Duplicate Result		
		32.9	Duplicate Relative % Result Difference		<b>Date Sampled:</b> 5/17/2023 <b>Date Received:</b> 5/17/2023
		20	RPD Limit		pled: 5
		*	RPD Outliers		/17/2023
		5/18/2023	Date Analyzed		

 $NC = Not\ Calculable$ . 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.

with the sample condition requirements upon receipt. 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

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.

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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.
- "I" = 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.

### 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, tern 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 wi 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 reperform 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.

## CHAIN OF CUSTODY

Standard 5 day  None Required  10 day  Batch QC  Rush 3 day  Category A  Rush 1 day  Other  Please indicate state mechant  ASAT  None Required  Category B  Category B  Category B	Turnaround Time Report Supplements  Availability contingent upon lab approval; additional fees may apply.		Sh7/23 15:30 ×	5/17/23 15:35 ~	5/17/23 IS:40 V	DATE COLLECTED TIME P R S A A I I B		PROJECT REFERENCE  H229-57		PARADIGM ENVIRONMENTAL SERVICES
None Required  Basic EDD  NYSDEC EDD  Other EDD  please indicate EDD needed	Report Supplements		T-6 So:1	7-3 Soil	7-1 5531	SAMPLE IDENTIFIER		Matrix Codes: AG - Aqueous Liquid NG - Non-Aqueous Liquid	PHONE: 585-385-747 FAX:	REPORT TO:  STATE  REPORT TO:  REPORT TO:  STATE  REPORT TO:  REPO
112 112 112 112 112 112 112 112 112 112	12 S/d as 1:01		20 4 V V V V	SO H VVVV	S Y V V V V	X-RHDE OMOOG  TO RINGE Z  WRITZ-DHZOG  TEL VOC  PCBS  TELP RICH MA	REQUESTED ANALYSIS	WA - Water WG - Groundwater WW - Vragetwater WW - Vragetwater SL - Sludge	PHONE: YOUR TO A STATE OF THE PHONE	Share 170 COMPANY: SAME  Share 170 COMPANY: SAME  Share 170 COMPANY: SAME  Share 170 COMPANY: SAME
Total Cost  3 15152  5 1550  PHF  1553  Conditions (reverse).	23 15:50	A for TLUP EXTRACT				REMARKS		SD - Solid WP - Wipe PT - Paint CK - Caulk	Email:	LAB PROJECT ID 23200
			034	OLA	01A	PARADIGM LAB SAMPLE NUMBER		OL - Oil AR - Air		

See additional page for sample conditions.

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### Chain of Custody Supplement

Lab Project ID:	232065	Completed by: Date:	5/17/23						
Sample Condition Requirements  Per NELAC/ELAP 210/241/242/243/244									
Condition	NELAC compliance with the sample o Yes	condition requirements upo No	on receipt N/A						
Container Type  Comments		D≥5035							
Transferred to method- compliant container									
Headspace (<1 mL) Comments									
Preservation  Comments									
Chlorine Absent (<0.10 ppm per test strip) Comments									
Holding Time  Comments									
'emperature  Comments	14°(	Ha PCB)	Den Z						
ompliant Sample Quantity/Type  Comments									

### **Attachment B-4**

Confirmatory Samples Laboratory Report



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 Farmen

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



Client: <u>Lu Engineers, Inc.</u>

**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)**

<u>Analyte</u>	<b>Result</b>	<u>Units</u>		<b>Qualifier</b>	<b>Date Ana</b>	<u>yzed</u>
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	<u>Perce</u>	ent Recovery	<b>Limits</b>	<b>Outliers</b>	<b>Date Analy</b>	vzed
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: <u>Lu Engineers, Inc.</u>

**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)**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>		<b>Qualifier</b>	Date A	<u>nalyzed</u>
1,2,4-Trimethylbenzene	< 8.58	ug/Kg			6/1/20	23 16:34
1,3,5-Trimethylbenzene	17.9	ug/Kg			6/1/20	23 16:34
Benzene	< 8.58	ug/Kg			6/1/20	23 16:34
Ethylbenzene	< 8.58	ug/Kg			6/1/20	23 16:34
Isopropylbenzene	< 8.58	ug/Kg			6/1/20	23 16:34
m,p-Xylene	< 8.58	ug/Kg			6/1/20	23 16:34
Methyl tert-butyl Ether	< 8.58	ug/Kg			6/1/20	23 16:34
Naphthalene	< 21.4	ug/Kg			6/1/20	23 16:34
n-Butylbenzene	< 8.58	ug/Kg			6/1/20	23 16:34
n-Propylbenzene	< 8.58	ug/Kg			6/1/20	23 16:34
o-Xylene	< 8.58	ug/Kg			6/1/20	23 16:34
p-Isopropyltoluene	< 8.58	ug/Kg			6/1/20	23 16:34
sec-Butylbenzene	< 8.58	ug/Kg			6/1/20	23 16:34
tert-Butylbenzene	< 8.58	ug/Kg			6/1/20	23 16:34
Toluene	< 8.58	ug/Kg			6/1/20	23 16:34
<u>Surrogate</u>	Perce	ent Recovery	<u>Limits</u>	<b>Outliers</b>	Date An	alyzed
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: <u>Lu Engineers, Inc.</u>

**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)**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>		<b>Qualifier</b>	Date Ana	<u>lyzed</u>
1,2,4-Trimethylbenzene	21.9	ug/Kg			6/1/2023	3 16:53
1,3,5-Trimethylbenzene	10.9	ug/Kg			6/1/2023	3 16:53
Benzene	< 8.48	ug/Kg			6/1/2023	3 16:53
Ethylbenzene	< 8.48	ug/Kg			6/1/2023	3 16:53
Isopropylbenzene	< 8.48	ug/Kg			6/1/2023	3 16:53
m,p-Xylene	< 8.48	ug/Kg			6/1/2023	3 16:53
Methyl tert-butyl Ether	< 8.48	ug/Kg			6/1/2023	3 16:53
Naphthalene	22.8	ug/Kg			6/1/2023	3 16:53
n-Butylbenzene	< 8.48	ug/Kg			6/1/2023	3 16:53
n-Propylbenzene	< 8.48	ug/Kg			6/1/2023	3 16:53
o-Xylene	< 8.48	ug/Kg			6/1/2023	3 16:53
p-Isopropyltoluene	< 8.48	ug/Kg			6/1/2023	3 16:53
sec-Butylbenzene	< 8.48	ug/Kg			6/1/2023	3 16:53
tert-Butylbenzene	< 8.48	ug/Kg			6/1/2023	3 16:53
Toluene	< 8.48	ug/Kg			6/1/2023	3 16:53
Surrogate	Percen	<u>it Recovery</u>	<u>Limits</u>	<u>Outliers</u>	Date Ana	yzed
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: <u>Lu Engineers, Inc.</u>

**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)**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>		<b>Qualifier</b>	Date Ar	nalyzed
1,2,4-Trimethylbenzene	23.4	ug/Kg			6/1/20	23 17:12
1,3,5-Trimethylbenzene	< 7.43	ug/Kg			6/1/20	23 17:12
Benzene	< 7.43	ug/Kg			6/1/20	23 17:12
Ethylbenzene	< 7.43	ug/Kg			6/1/20	23 17:12
Isopropylbenzene	< 7.43	ug/Kg			6/1/20	23 17:12
m,p-Xylene	< 7.43	ug/Kg			6/1/20	23 17:12
Methyl tert-butyl Ether	< 7.43	ug/Kg			6/1/20	23 17:12
Naphthalene	< 18.6	ug/Kg			6/1/20	23 17:12
n-Butylbenzene	< 7.43	ug/Kg			6/1/20	23 17:12
n-Propylbenzene	< 7.43	ug/Kg			6/1/20	23 17:12
o-Xylene	< 7.43	ug/Kg			6/1/20	23 17:12
p-Isopropyltoluene	< 7.43	ug/Kg			6/1/20	23 17:12
sec-Butylbenzene	< 7.43	ug/Kg			6/1/20	23 17:12
tert-Butylbenzene	< 7.43	ug/Kg			6/1/20	23 17:12
Toluene	< 7.43	ug/Kg			6/1/20	23 17:12
<u>Surrogate</u>	<u>Perce</u>	nt Recovery	<u>Limits</u>	<b>Outliers</b>	Date An	alyzed
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.

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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.
- "I" = 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.

### 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, tern 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 wi 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 reperform 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.





## CHAIN OF CUSTODY

					05/23/23 /	05/23/23 (	05/23/23 1	05/23/23 1	DATE COLLECTED CO		4229-57	PROJECT REFERENCE				September 1	PARADIGM
					13:40	13:30	13:00	13:00	TIME		7	REFERE		Ų	L	in university	G
									m ⊣ − vo <b>≥</b> cr o o			NCE			-		A
					(	5	<	<	พ≽ฆด					_			
					Bothm- Tanks	Bottom - SW	Sidewall - S	Sidewall - W	SAMPLE IDENTIFIER		Matrix Codes: AQ - Aqueous Liquid NQ - Non-Aqueous Liquid	ATTIN BON SELBOT	PHONE: (S85) 385-7417	CITY: Rownisks STATE: NY	838	Ly Enginees	
					8,	So	So	So	X - Z - Z - Z Ø m D O O		WA - Water WG - Groundwater	A	P	HO9H1 diz		<u> </u>	
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										REQUESTED ANALYSIS	<b>DW</b> - Drinking Water <b>WW</b> - Wastewater	Gres Andres		STATE:		16	
	I									SIS	SO - Soil SL - Sludge			ZIP:			
									REMARKS		SD - Solid PT - Paint	pæ tert	Email:	Quotation #:			
									J.		WP - Wipe CK - Caulk	pse, fert le luenginais, com	)	**	12111	LAB PROJECT ID	
					04	6.3	20	01	PARADIGM LAB SAMPLE NUMBER		OL - OII AR - Air	53, CJM			CX	کی	



### Chain of Custody Supplement

Client:	231228	Completed by:	5/ 25/23
	Sample Con Per NELAC/EI	dition Requirements AP 210/241/242/243/244	
Condition A	ELAC compliance with the sa Yes	mple condition requirements upon i No	receipt N/A
Container Type  Comments		X 5035	
Transferred to method- compliant container			
Headspace (<1 mL) Comments			
Preservation  Comments			
Chlorine Absent (<0.10 ppm per test strip)  Comments			
Holding Time  Comments	TX.		
Temperature  Comments		2°(	
Compliant Sample Quantity/Type  Comments			

### **Attachment C**

Photo Pages

### 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





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



### 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



### 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



### 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



### **Attachment D-1**

Tank Recycling Documentation

### 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 #

Receiver #	Dispatch # Description	Recv Date	Reference Gross	Tare Deduct		41-1		
465773		05/47/0000		Tare D	eauct	Net	Price / UM	Amour
403773	465773	05/17/2023	465773					
	SHREDDER F	EED	14,360	12,120	0	2,240	195.00 / GT	195.00
	Comment:					-1-10	100.00 / 01	100.00
				Invoice	Totals	2,240	-	195.00
465795	465795	05/17/2023	465795					
	SHREDDER F	EED	14,780	12,100	0	2,680	195.00 / GT	233.30
	Comment:			,		2,000	100.00 / 01	200.00
				Invoice	Totals	2,680	-	233.30
465811	465811	05/17/2023	465811					
	SHREDDER F	EED	15,940	12,820	0	3,120	195.00 / GT	271.62
				Invoice	Totals	3,120		271.62
				Grand	Totals	8,040	1,4	699.9

### **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 Ticket Date 05/22/2023 Payment Type Credit Account

Manual Ticket# Hauling Ticket# Route

State Waste Code

Destination

Manifest 12696786

Grid

Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)
Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

Time Scale 05/22/2023 09:16:15 Ιn Scale1 Out 05/22/2023 09:16:15

Operator tjacks10 tjacks10

Container

Driver

Gen EPA ID

Check#

Billing # 0002489

12/21/2023

Inbound

Gross Tare Net Tons

77660 lb 28820 lb 48840 lb 24.42

Comments This vehicle was over the legal weight limit .

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

> Total Tax Total Ticket

Driver`s Signature



	THOSE INAMAGENERAL							~ . ~ .		<b>-</b>	
	NÕN-HAZARDOUS MANIFEST	1. Generator's	US EPA ID No.	٨	/lanifest Doc		2. Page	1 of	MJD 21		
	3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE F 30 CHURCH ST. ROOM 300B	ORBES	Generator's	Site Address (If	different than n	nailing):	A. Manif	fest Number		69678	 6
	ROCHESTER, NY 14614	Section Manager	ROCHESTER						te Generator's ID		
	5. Transporter 1 Company Name		6.	US EPA I	Transporter'	ansporter's ID waste Franciscopie					
-	7. Transporter 2 Company Name		8.		O Mora se.		D. Trans	porter's Pho	ne Trai	ngpya sar	Lillon.
	"Sansported Congress State		0.	E Chate Transport						in Hara	7.7
	. Designated Facility Name and Site	۸ ططبه م		F. Transporter's						ispata.	
١	VM OF NEW YORK AT MILL SE 103 BREW RD. BERGEN, NY 14416		10.		US EPA ID Number  G. State Facility II  H. State Facility P					94-3000	/ 20°
		· ·									
E }	1. Description of Waste Materials				12. Co No.	ntainers Type	13. Total Quantity	14. Unit Wt./Vol.	I.	Misc. Comm	nents
y a	. NON DOT REGULATED MATE	RIAL			##:(*.	17/22	Total Siy.	Wt./Vo			
∖ <del>⊢</del>	WM Profile	# 126492N	NY			on in		1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	TOTAL		
					figrs,	Type	Total Qty.	Wr./Vol		, ammun	ils
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		45 % 14. Nr. 4.			N	Toyas	Tutal Oty.	Wr./ Vnj	_ 1	'swinten	14
d.	WM Profile #	Vavi Prodle N	unter				Mine mine	Water state	E STATE OF THE STA		n Filoso
					No.	Type		wit./ Yai	. (	1990111131	d No.
J.	WM Profile # Additional Descriptions for Materia	WM thefile etg. Is Listed Above	aluti			al Location					
					Cell Grid				Level		
	. Special Handling Instructions and A				_ Grid						_
	.26492NY — GASOLINE CONTAMIN ardling Instructions	NATED OKBAN F	FILL/DEBRIS				WEIG	iht is estii	MATED	parate of	
-	rchase Order # Farchase Order	P4(41) Oct	EM	TERGENCY CON	TACT / PHO	NE NO.:	Entergenc	y Contact			
I h	. GENERATOR'S CERTIFICATE: ereby certify that the above-described curately described, classified and pack	d materials are no kaged and are in p	ot hazardous w proper conditic	astes as define	ed by CFR Pa	rt 261 or ar	ny applicable	e state law, l	nave been fo	ully and	
Pri	nted Name DAVET	wher	Signat	ure 🔾	~~/	) /	- Ceur	4.10113.	Month	Day	Year
17	. Transporter 1 Acknowledgement of	Receipt of Mater	rials	-/1	017				5	22	23
¥	Printed Name Rowh		Signat	1-7	Para de	سعد			Month	Day	Year
18	Transporter 2 Acknowledgement of		ials	()	<del></del>	8			10	I K	123
	Printed Name		Signat	ure					Month	Day	Year
l ce app 20.	Certificate of Final Treatment/Disportify, on behalf of the above listed tre blicable laws, regulations, permits and Facility Owner or Operator: Certifications	eatment facility, t l licenses on the c	uates fisted abo	ive.			ed waste wa	s managed	in complian	ce with al	<u> </u> 
	Duit A - 4 81				~ ~ y citta						
	Printed Name Printed Name Printed Name	4.	Signat	urg <		en			Month	Day	Year

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# 1141323

Customer Name TRECENVIRONMENTAL-126492NY TR Carrier MJD M J DREHER TRUCKING, INC. Vehicle# 21 Volume

Container

Driver

Check# Billing # Gen EPA ID

12/21/2023

0002489

Ticket Date 05/22/2023
Payment Type Credit Account
Manual Ticket#

Hauling Ticket# Route

State Waste Code Manifest

Destination

12696788

PO Profile Generator Grid X20

126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS) 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

Time 05/22/2023 10:46:55 Out 05/22/2023 10:46:55

Scale Operator Scale1 tjacks10 tjacks10

Inbound Gross 72880 lb Tare 28820 lb Net 44060 lb

22.03

Tons

Comments

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

Total Tax Total Ticket

Driver`s S	ignature



NON-HAZARDOUS MANIFEST	EPA ID No.	N	/lanifest Doc	No.	2. Page	2. Page 1 of				
	Chateria d	White to		Petro	ikan r	n	ayer	MJD	- 21	
3. Generator's Mailing Address:	G	enerator's Sit	te Address (If	different than	mailing):	A. Mani	fest Number	<del></del>		——
CITY OF ROCHESTER ATTN: JANE I 30 CHURCH ST. ROOM 300B	J						VMNA	126	96788	
ROCHESTER, NY 14614		36 CENTRA				<b>-</b>				
4. Generator's Phone	to, signora.	OCHESTER, I	NY 14605					Generator		
5. Transporter 1 Company Name		6.	IIS EDA I	ID Number			See The Contractor No.	- House and		
T. M.J. Dahr Name		1				C State				
			- M. Lean	u Nambu			Transporter's porter's Phone		- Trampo	
7. Transporter 2 Company Name		8.	US EPA I	D Number			porter a Filone		sporter 1 1. July 1	riitii.
Transported Company Names			: 35 110 0 1	5 Marelon			Fransporter's I	222	e Transpo	
9. Designated Facility Name and Site	Addross	10				F. Transp	orter's Phone		sporter 2	
		10.	US EPA	ID Number					机器	
WM OF NEW YORK AT MILL SE	AT LANDFILL		J. DAT	a Manabes		G. State	Facility ID	Stata	a Cacill by I	U.
303 BREW RD.						1 .	Facility Phone	585-49	<b>4-3</b> 000 Ea	ottay
BERGEN, NY 14416						i'hores		23 (1036)	rya ya ka	200
G 11. Description of Waste Materials					ntainers	13. Total	14. Unit	Things of plans	Mica Commo	ge ev li
a. NON DOT REGULATED MATE	RIAL			No.	Туре	Quantity	Wt./Vol.	+	Misc. Commen	
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0				No.	type	Oty.	Wt./ Vol.	Ç	ommenis	7
WM Profile #	Whitewalle stop	lag								e descuie
c. Vaste Name				33-782-35-38	1 G.	Potal		( Francisco Sept.	Alexander Services	The same
				N.S.	Type	Qty	Wit/ Vol.	C	dfiltrejils	
WM Profile #	Vävi Profile Num	iser	·	<b>用</b>				150	La Fig.	Thirtie
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·				No.	Type	Qty.	Wu/Vol.	i û	omments	
WM Profile #	Vyst Institution vie				THE STATE OF	the later				150
J. Additional Descriptions for Materia	IS Listed Above			K. Dispos	al Location				200000000000000000000000000000000000000	Life Section 1
				0.11		·				
				Cell Grid				Level		
15. Special Handling Instructions and A	dditional Information	1		Gila						
126492NY – GASOLINE CONTAMIN	NATED URBAN FILL	/DEBRIS				WEIC	LITIC CCTIMA	ATED :		
Dundling lastructions		•				WEIG	HT IS ESTIMA	AIED [9]	ecisi	
Purchase Order # Purchase Order	N. odve	EME	RGENCY CON	ITACT / PHO	NE NO ·	- Zmeigend	sa affice a line t			
16. GENERATOR'S CERTIFICATE:										· · · · · · · · · · · · · · · · · · ·
I hereby certify that the above-described accurately described, classified and pack	d materials are not h	azardous was	ites as define	ed by CFR Pa	irt 261 or an	v annlicable	state law ha	va haan ful	llu and	
Printed Name	caged and are in prop	Jer condition	for transport	tation accor	ding to appl	icable regul	ations.	ve been lui	iy anu	
Van F	2Nhe1	Signatur		$\infty$	1			Month	Day	Year
17. Transporter 1 Acknowledgement of	Receipt of Materials		-	402				5	22	23
Printed Name	i A		- 0	06	1			<del></del>	<del></del>	
XDANY ROWLE	4	Signatur	Man	_Roce	wez-	_		Month	Day	<del>3</del> 23
18. Transporter 2 Acknowledgement of	Receipt of Materials		4		0				0145	
Printed Name		Signatur	e					Month	Day	Year
										, cal
19. Certificate of Final Treatment/Dispos	sal									
I certify, on behalf of the above listed tre	atment facility, that	to the best of	f mv knowled	ge, the sho	ve-describe	dwaata	r man == - 11	41		
	meenses on the date	is nisteu abuve	Ξ.			u waste Wa	s managed in	compliance	₃ with all	
20. Facility Owner or Operator: Certifica	tion of receipt of no	n-hazardous i	materials cov	ered by this	manifest.					
Brinted Name	L-C-	Signatur		~				Month	Day	Year
lemaine JAC	160~		Leur	~	Se	un		5	20 1	23
White-TREATMENT, STORAGE, DISPOSA		Blue- GE	NERATOR #2	2 COPY		Yello	ow- GENERATO	OR #1 COP	V = 15	<u> </u>
Pink- FACILITY USE ONLY		COLA TO	MCDODTED	11 0000						



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

Ticket Date 05/22/2023 Payment Type Credit Account Container

Manual Ticket#

Driver

12/21/2023

Hauling Ticket#

Check#

Route

Billing #

Gen EPÁ ID

State Waste Code 12696782

0002489

Manifest

Grid

PΟ

Destination

X20

Profile

126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS) 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

Generator

Time

Comments

Scale Operator Scale1 tjacks10

Gross 75220 lb Inbound Tare

05/22/2023 08:00:20 Ιn Out 05/22/2023 08:00:20

tjacks10

28820 lb 46400 lb Net Tons 23.20

This vehicle was over the legal weight limit .

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

Total Tax Total Ticket

Driver`s Signature



	1. Generator's US EPA I			. Ma	anifest Doc I	No.	2. Page 1	of				
	NON-HAZARDOUS MANIFEST		gerrae hi		Filt (c)	914	Per	Tha part	8A - 5	334		
	3. Generator's Mailing Address:		Generator'	s Site Address (If d	ifferent than ma	ailing):	A. Manife	st Number				
	CITY OF ROCHESTER ATTN: JANE F	ORBES					w	MNA	126	96782		
	30 CHURCH ST. ROOM 300B			TRAL AVE.			-		Generator'		<del></del>	
	ROCHESTER, NY 14614		ROCHEST	ER, NY 14605	•		State Cadenatra's III					
	4. Generator's Phone 585-428-7892	descriptions of						**				
	5. Transporter 1 Company Name		6.	US EPA II	) Number		F. 70 (2) (1)	ke Karibaan	245a	e illizaria	15.	
	Tran MT Drehitamo			n en	a Nuivilaas		C. State T	ransporter's	ID Shake	Parsyc	etar III	
							D. Transp	orter's Phon	e inte	iporter 1	Flync	
	7. Transporter 2 Company Name		8.	US EPA II	) Number				A.S. A.S. S.	17006	TO REAL PROPERTY LET LIBER	
	Lansyman 2 Cargosy Maces			135 5 355 1	) Munghay			ransporter's orter's Phone		<u>fransp:</u> gorter :		
	9. Designated Facility Name and Site	Address	10.	US EPA	ID Number		1. ITalispo	orter 3 mon				
							G. State F	acility ID		Cheffity		
	WM OF NEW YORK AT MILL SE 303 BREW RD.	AI LANDFILL		US EPA II	(Plunt.ser		H. State F	acility Phone		1-3000		
	BERGEN, NY 14416						Phone					
	BENGEN, NT 14410		# 1 m		16thi sara		Market State			Pengan	There is	
G	11 Decembring of Marta Matarials	<del></del>		TA ALCAS STOR	12. Cor	ntainers	13, Total	14. Unit		X4.0546	6.T	
E	11. Description of Waste Materials				No.	Туре	Quantity	Wt./Vol.	1. 1	Aisc. Comme	nts	
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	J. Additional Descriptions for Materi	ais Listed Above			K. Dispos	al Location						
					Cell				Level	T		
					Grid							
	15. Special Handling Instructions and	Additional Inforn	nation									
	126492NY – GASOLINE CONTAM	INATED URBAN	I FILL/DEBR	IS			WEIG	HT IS ESTI	MATED =	er Class		
	Hazakhag lus-Backous	<del></del>										
	Purchase Order # Purchase Onde	r Ni niber		EMERGENCY COI	NTACT / PHO	ONE NO.:	Envergens	y Contact				
	16. GENERATOR'S CERTIFICATE:											
	I hereby certify that the above-describ accurately described, classified and pa	ed materials are ckaged and are i	not nazardoi n proper con	us wastes as defin dition for transpoi	ed by CFR Pa station accou	art 261 or a rding to api	iny a <b>p</b> plicable olicable regu	e state law, I lations	have been fu	illy and		
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ì	Printed Name  OARY  Row I	EY	518	gnature cum	Ru	-			Month	1 2	Jear J.F	
	18. Transporter 2 Acknowledgement	of Receipt of Mat	erials			0				1	10.0	
	Printed Name		Sig	gnature					Month	Day	Year	
										T		
1	19. Certificate of Final Treatment/Disp	oosal			· · ·							
	I certify, on behalf of the above listed		, that to the	best of my knowle	edge, the ab	ove-describ	ed waste w	as managed	in complian	ce with al		
:	applicable laws, regulations, permits a	nd licenses on th	e dates listed	l above.								
	20. Facility Owner or Operator: Certif	ication of receipt			overed by th	is manifest	•					
	Printed Name		Si	gnature					Month	Day	Year	
1	White TREATMENT STORAGE MEDICAL	EAL FACILITY COS		Lew	2n	- )	en	I CENES	15	22	25	
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	THIR-TACIENT OSE ON	IL)	Gu	114-11A113FORICE	HI COLI							



Waste Management Mill Seat Landfill 303 Brew Rd.

Bergen, NY, 14416 Ph: (585) 494-3000

Original Ticket# 1141267

Volume

Customer Name TRECENVIRONMENTAL-126492NY TR Carrier MJD M J DREHER TRUCKING, INC. Ticket Date 05/22/2023 Payment Type Credit Account Vehicle# 27

Grid

190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

Manual Ticket# Hauling Ticket#

Route State Waste Code

Time

Out 05/22/2023 08:44:44

Manifest Destination

12696783

PO

Profile Generator

126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)

Scale 05/22/2023 08:44:44 Scale1

Operator tjacks10 tjacks10

X20

Inbound Gross

03/07/2024

0002489

Tare 29900 lb 42840 lb Net Tons 21.42

72740 lb

Comments

In

Prod	luct	LD%	Qty	MOU	Rate	Tax	Amount	Origin
1	Cont Soil Pet-RGC-	100	21.42	Tons				MON

Container

Driver

Check# Billing # Gen EPA ID

> Total Tax Total Ticket

Driver`s	Signature
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MON HAZARDOHS MANUFEST	1. Generator's U	S EPA ID No.	M	lanifest Doc	No.	2. Page 1	of			
NON-HAZARDOUS MANIFEST	1 jet dine	omane's a		N:413/-1	i fe f	[F.5	11.5	W20-	27	
3. Generator's Mailing Address:		Generator's S	Site Address (If	different than m	ailing):	A. Manife	est Number			
CITY OF ROCHESTER ATTN: JANE						w	MNA	126	96783	
30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614	I	536 CENTR					B. Stat	e Generator	's ID	
4. Generator's Phone		ROCHESTER	, NY 14605				State	Gaueratik		
585-428-7892	atteris Markey									
5. Transporter 1 Company Name	-	6.	US EPA I	D Number		Balanca (S	was in the		Table 7 in	
TaMJa Dreham Hane			PERMI	g jangalow			ransporter'		e Traisspo	
7. Transporter 2 Company Name		8.	IIS FPA I	D Number		D. Transp	orter's Pho		sporter i	
		"					ransporter's		Transp.	
Tong wile details by Marie			173 1 170 1	firhland ar		-	orter's Phor		servitar a	
9. Designated Facility Name and Site	Address	10.	US EPA	ID Number		Allega de la compaction	The Company	17 July 18 18 18 18 18 18 18 18 18 18 18 18 18		Mark S
WM OF NEW YORK AT MILL S	EAT LANDFILL		4410 E424E4	n Negovologija Statistica		G. State F			: Facility	ţĬ
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BERGEN, NY 14416		2014			ren.	Pinne nume	100000000000000000000000000000000000000		100	Niel e
		60 G.			Thomas ya				Thillies only	
G 11. Description of Waste Materials				12. Co No.	ntainers	13. Total	14. Unit Wt./Vol.	ı.	Misc. Comm	ents
a. NON DOT REGULATED MAT	ΓERIAL			NO.	Туре	Quantity		<del>                                     </del>		
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WM Profile #	WWW.ep.fileNi	hober		11.00	and the same of th	The Europe		PERSONAL PROPERTY.	Marilla e de	
c. Wate flame				No.	Type	ink!	WE/Ve		Opposite to	
						Ukry.				
d. Warte Name	WWW Inother Ne	Herber .		# Jing	Terrier 120 Gen.	To the suggestion	B.St	# Lot	ode.	
u. Brand Strong strong				No.	Typa	Talka!	WEZ Vo	i, l	iomanen.	
MARK Durafila H						Opportunities of the second	TO THE PERSON NAMED IN	The Reserve		O NECESTRA
J. Additional Descriptions for Mater	rials Listed Above	(PUNC)		K Disnos	al Location	Mary Property	TOTAL KAND	115 67 0.0		1800.0
·										
				Cell				Level		
45.6	1.			Grid						
15. Special Handling Instructions and										
126492NY – GASOLINE CONTAN	IINATED URBAN F	-ILL/DEBRIS				WEIG	SHT IS ESTI	IMATED 5	precial.	
Purchase Order # Polichase Orde			MEDGENCYCO	NTAGE / BUI					<del>_</del>	
Purchase Order # Pondhase Order  16. GENERATOR'S CERTIFICATE:	Ur musuuct	E	MERGENCY CO	NIACI / PHO	ONE NO.:	panel Rety	cy Contact			
I hereby certify that the above-descri	had materials are n	ot bazardous	wastos as dofin	ad by CCD D	aut 161 au -			ha ha £		
accurately described, classified and p	ackaged and are in	proper condit	ion for transpo	rtation acco	rding to ap	niy applicabl plicable regu	e state iaw, lations.	nave been i	ully and	
Printed Name	20/1001		ature (	DANO A	2		-	Month	Day	Year
20/00 1	Mael		$-\tau$	10117				5	22	23
17. Transporter 1 Acknowledgement	of Receipt of Mater	<del>- 1</del>			2010					
XI	45171		atore (	M	1/10	un	_	Month	Day	Year
18. Transporter 2 Acknowledgement	of Receipt of Mater	rials			100				12	6
Printed Name			ature					Month	Day	Year
									1	1
19. Certificate of Final Treatment/Dis	enosal									
I certify, on behalf of the above listed	•	that to the he	st of my knowl	edge the sh	ove-describ	ned waste w	ac manago	l in complian	ica with a	11
applicable laws, regulations, permits	and licenses on the	dates listed a	bove.	cuge, life du	ove-descrit	sea waste W	as managet	a in compilar	ice with a	.1
20. Facility Owner or Operator: Certi				overed by th	is manifest		····	·· · · · · · · · · · · · · · · · · · ·		
Printed Name	1-0	Sign	ature	(				Month	Day	Year
12/main Al	1570V		Jen	n	_0	an		5	22	23
White-TREATMENT, STORAGE, DISPO			GENERATOR	- (		Ye	llow- GENE	RATOR #1 CO	PY	
Pink- FACILITY USE OI	NLY	Gold-	- TRANSPORTE	R #1 COP┡~~						



Original

Ticket# 1141277

Bergeraste Kranakte Ment

Ph: (585) 494-3000

Customer Name TRECENVIRONMENTAL-126492 Carrier

WAT WATER AUTHORITY Vehicle# 224593

Ticket Date 05/22/2023 Payment Type Credit Account

Container

Manual Ticket#

Driver Check#

Route Hauling Ticket#

Billing#

Destination

0002489 Grid X20

Manifest 12696784
Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS) Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

PO#

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

Comments

Prod	luct	LD%	Qty	Rate	Tax/Fee	Amount Origin
	Cont Soil Pet-RGC-Tons-			 		MON

Total Tax/Fees Total Ticket

Driver`s Signature



	1. Generator's	US EPA	ID No.	Ma	nifest Doc I	No.	2. Page 1	of				
	NON-HAZARDOUS MANIFEST	erini.			Second		\$1.7g	201	93			
	3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE FORBES 30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614 4. Generator's Phone	Gene	erator's Si	te Address (If di AL AVE. NY 14605	fferent than ma	ailing):	A. Manife	st Number MNA  B. State (	1269 Generator's			
į	585-428-7892 5. Transporter 1 Company Name		6.	US EPA ID	Number		Para Para		ienis 2. – 124		i de più di	
	"City of Rochester Water B	wen		UNICA 10	Nonfair			ransporter's II orter's Phone	Gans	iten pa: porter L	Phone	
	7. Transporter 2 Company Name Transporter 2 Company of Manage		8.	US EPA ID				ransporter's II				
	9. Designated Facility Name and Site Address		10.	F. Transporter's Phone  10. US EPA ID Number								
	WM OF NEW YORK AT MILL SEAT LANDFILL 303 BREW RD. BERGEN, NY 14416	-	SS FRA II		Asam sajiresa	X(() ** () *	G. State F		Stace Cacility 31: 585-494-3000 Fauli			
•				Maria de la compansión de La compansión de la compa	52 . 37		Property of the second				Things Live	
G E	11. Description of Waste Materials				No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. M	lisc. Commen	nts	
N E R	a. NON DOT REGULATED MATERIAL  WM Profile # 12649	ONIV			No.		Your Ory.	Wt./Vol.	is eyes essite at		G views	
A T O	b. Waste Mary				No.	Type .	Total Qty.	Wt./Vol.	at the	un ment		
R	WM Profile # Wast Parties	Augustic	-7				Plant Con	Contract (Fig. 1991)			Wileyana	
	C. West a Culture				Mo.	Fyjaer	Folial Hity.	371 / Vol	ι",	miameni:		
	WM Profile # Way Franks d. Washington	Nepoti	11		Arguery.		Physical Colonia Physical Colonia	56/4/dir. (cfs)	HARRIER C	152 <b>1</b> 0	S. Signalia	
					NO.	Турс	intel tity.	19/1./ Voic		emoter t		
	WM Profile # NAME FOR THE B.  J. Additional Descriptions for Materials Listed Abov				K. Dispos	Location					D. Calling	
					Cell Grid				Level			
	15. Special Handling Instructions and Additional Infor 126492NY — GASOLINE CONTAMINATED URBA Handling Instructions  Purchase Order # Purchase Order elumber  16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are accurately described, classified and packaged and are Printed Name	N FILL/	EN	on for transpor	ed by CFR Pa	art 261 or a	Estrologena ny applicabl				Year	
	JUN BUDE		J.B.I.G		100	$\bigcap$			5	22_	23	
T R A N S	Printed Name  Pr		Signa <b>X</b>	ture		- 8			Month	Day	Year	
O R T E R	18. Transporter 2 Acknowledgement of Receipt of Ma Printed Name	aterials	Signa	ture					Month	Day	Year	
F A C I L I T Y	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facilir applicable laws, regulations, permits and licenses on the 20. Facility Owner or Operator: Certification of receipting	he date	s listed ab	ove. ous materials co		W. A. A.		as managed i	n complian	Day	Year	
	White-TREATMENT, STORAGE, DISPOSAL FACILITY CO	PY		- GENERATOR # TRANSPORTER	C	7	Ye	llow- GENERA	TOR #1 CO	PY	93	



Waste Management Mill Seat Landfill 303 Brew Rd.

Bergen, NY, 14416 Ph: (585) 494-3000

Original Ticket# 1141339

20.15

Customer Name TRECENVIRONMENTAL-126492NY TR Carrier MJD M J DREHER TRUCKING, INC. Ticket Date 05/22/2023 Vehicle# 27 Volume

Container

Driver

Check# Billing # Gen EPA ID

03/07/2024

0002489

Ticket Date 05/22/2023 Payment Type Credit Account

Manual Ticket# Hauling Ticket# Route

State Waste Code Manifest 12696789

Destination

Grid

X20

PΟ Profile Generator

126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS) 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

Time Scale Operator Inbound Gross 70200 lb 05/22/2023 11:22:42 Ιn Scale1 tjacks10 Tare 29900 lb Out 05/22/2023 11:22:42 tjacks10 40300 lb

Comments

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

Total Tax Total Ticket

Net Tons

Driver`s Signature	
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	- NON HATARRANGE	1. Generator's	US EPA ID	No. M	lanifest Doc	No.	2. Page 1	of	<del> </del>		
	* NON-HAZARDOUS MANIFEST	t +	(8.,5) (E.) <sup>1</sup> 5	i.i	Mana	N:	i e	\$5.1	MJD 27		
	3. Generator's Mailing Address:		Generat	or's Site Address (If	different than m	nailing):	A. Manife	est Number			
	CITY OF ROCHESTER ATTN: JANE I	FORBES	i				\ w	MNA	126	596789	)
	30 CHURCH ST. ROOM 300B			NTRAL AVE.					Generator		
	ROCHESTER, NY 14614 4. Generator's Phone		ROCHES	TER, NY 14605					) e de la comitación.		
	585-428-7892	ricafa Plane									
	5. Transporter 1 Company Name		6.	US EPA I	D Number	·					
	TOMATO DELANGMOME			17" I AA I	O Nenvilsev		C. State Transporter's ID State Transporter 12				
								orter's Phon	e Tran	sporter	Léhora
	7. Transporter 2 Company Name		8.	US EPA I	D Number			Three Marie		SAME AND SAME	
i	Тарцова 2 Супрару Мары			115 (1841)	O Number			ransporter's		ie (rausp	
	9. Designated Facility Name and Site	Address	10	). US EPA	ID Number			orter's Phon		sporter.	
							G. State F			e Facility	
	WM OF NEW YORK AT MILL SE	AT LANDFILL		USARAT	D Warracost			acility Phone		4-3000	
	303 BREW RD.						Phone	aomey 1 710110	. 303 43	-7 3000	es esterning
	BERGEN, NY 14416		L.E.		1/10/19			Constant	hite. Hange		
G	11. Description of Waste Materials			EVENT OF THE	12. Co	ntainers	13. Total	14. Unit	This is	The state of the s	Service Services
E	<u> </u>				No.	Туре	Quantity	Wt./Vol.	I.	Misc. Commo	ents
N E	a. NON DOT REGULATED MAT	ERIAL			No.	- Буре	Fotel	Wild Vol.			
R	WM Profile	1364031	VIV.		Well and spirit	7,44	Q.y.				
Α	b. Wasta Name	# 1264921	V Y		THE ARMS		(1) 新研 (1) 新新	PERMITS NAME	1 5 6 6 6		
T O	W - HAMVING TRAVITORS				N(s)	Type	Total	Wt./ Vol.		John Henr	Ìs.
R	WM Profile#	A Section 1981 Co. No.					Oty.				Vones, proposition
-	c. Washe Norman	Wish straight h	THE PURCE		CENTRAL SEA	Mary Control		- Philipping	T-13	San San	lera <sub>s de</sub>
ا					No	Ayre:	Total Qav.	Wt / Vol.	į.	Junished	lis.
	WM Profile #	West Profile f	lumber		100	100		en en	0 44.	and the same	
	d. Wente harge				ECTATION AND ADDRESS OF THE PARTY OF THE PAR	100 magnet (1,14m)	Testal		2 SM UICHES	and the same	out of the second
					No.	Type	tyly.	Wt./ Vol.		Lontacent	rs.
	WM Profile #	WWW.com. No	aebua		a production	3.44		lang.	1 141	Mariting Comments	92,000,000
ſ	J. Additional Descriptions for Materi				K. Dispos	al Location	A THE BOOK	ALUE ALUE	119 aveli	18 Table	15169 ALMANDA
1					Cell				Level		
ŀ	15. Special Handling Instructions and A	Additional Inform	ation		Grid						
	126492NY – GASOLINE CONTAMI			DIC			14/516				
	Handling instructions	INATED ORBAIN	FILL/ DEB	KIS			WEIG	HT IS ESTIN	MATED	pecial	
-	Purchase Order# Purchase Order	- Milashai		EMERGENCY CO	NTACT / BUC	ONE NO .	2				-
ŀ	16. GENERATOR'S CERTIFICATE:	The state of the s		EWIENGENCI CO	NIACI / FRO	JNE NO.:	timergene	A course.			
	I hereby certify that the above-describe	ed materials are r	not hazard	nus wastes as defin	ad by CER B	art 261 or a	ov onnlinehle		b c		
Ĺ	accurately described, classified and par	ckaged and are in	proper co	ndition for transpo	tation accor	rding to app	licable regul	ations.	ave been t	ully and	
	Printed Name	Mos		Signature C	X~	2-1			Month	Day	Year
+	17 Transporter 1 Ashroyalada yaya	4067	<del></del>		<u> </u>				5	22	23
<u> </u>	17. Transporter 1 Acknowledgement of	r Receipt of Mate				(h)					
N	x TAOF MAA	QHA/U		ignature	1 1		II i		Month	Day	Year
P	18. Transporter 2 Acknowledgement of	f Receipt of Mate	rials		l / ,	- 4	Ca_		5	11	
R	Printed Name			Signature					Month	Day	Year
E R				•					Wollen	Day	real
+	19. Certificate of Final Treatment/Disp	osal							<u></u>		<u></u>
<u> </u>			that to the	heet of my linearly	ndan Ahrai	ouo desti	مارينا				
	I certify, on behalf of the above listed to applicable laws, regulations, permits ar	nd licenses on the	dates liste	ed above.	uge, the ab	ove-describe	ed waste wa	as managed i	n complian	ce with al	'
	20. Facility Owner or Operator: Certifi				vered by th	is manifest					
;	Printed Name ,			Signature 1	(				Month	Day	Year
1	TERMAINE SIA	JC(OW	i	• • 1	in	CP	m	/	, n	777	77
	White-TREATMENT, STORAGE, DISPOS	AL FACILITY COPY	/	Blue GENERATOR				low- GENER	TOR #1 CO	PY S	الرها
	Pink- FACILITY USE ONL	.Y	G	old- TRANSPORTER	#1 COPY	-					



Original

Ticket# 1141348

WAT WATER AUTHORITY

Ph: (585) 494-3000

Customer Name TRECENVIRONMENTAL-126492 Carrier WAT WAT Ticket Date 05/22/2023 Vehicle# 224593 Ticket Date 05/22/2023 Payment Type Credit Account

Container

Manual Ticket#

Driver

Route Hauling Ticket#

Check# Billing# 0002489 X20

Destination

Grid Manifest 12696790 Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)

Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

PO#

Time Scale In 05/22/2023 11:45:32 Scale1 Out 05/22/2023 11:56:28 SCALE2 Operator Inbound tjacks10 kking5

Gross Tare

Net

46280 lb 24740 lb 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	1. Generator's	US EPA	ID No.	Ma	anifest Doc	No.	2. Page 1	of		··		
	NON-HAZARDOUS MANIFEST	(mag)	nusol.			Mistel		år.	Es <sup>1</sup>	93			
	3. Generator's Mailing Address:		Gene	rator's Sit	te Address (If d	ifferent than m	ailing):	A. Manife	est Number	T			
	CITY OF ROCHESTER ATTN: JANE I	FORBES						l w	/MNA	1269	96790		
	30 CHURCH ST. ROOM 300B		1	CENTRA						Generator's			
i	ROCHESTER, NY 14614 4. Generator's Phone		ROCI	HESTER,	NY 14605				State Gr	ederzitor",			
	585-428-7892 (SA) INTO	stor's Places											
	5. Transporter 1 Company Name	-		6.	US EPA II	Number		and the second					
	TOOK Wals Bur	<b>A</b> .			OL EPA II	Marazio		C. State Transporter's ID States flags, parter if					
	7. Transporter 2 Company Name	<del>~~</del>		8. US EPA ID Number					orter's Phone		gorier t	Photo	
				"				E. State T		TO A STREET, SALES CO.	Constitution and the Constitution of the Const	artro Wi	
	Transporter 2 Company Marie				US EFA E	) Migratosa		E. State Transporter's ID Scate From F. Transporter's Phone Transporter					
	9. Designated Facility Name and Site	Address		10. US EPA ID Number				Williams.	The second	XXXIIIIXIIIIXIIIIXIIIIXIIIX			
	WM OF NEW YORK AT MILL SE	EAT LANDFILL		12. Ette di Managar				G. State F	acility ID	Sedec	Cacility I	(S)	
	303 BREW RD.		13.5 k. f. W. 14.1 Art 13.0564					acility Phone	585-494	I-3000 👸	uility		
	BERGEN, NY 14416					44.476	Total Line	Migne	NAME OF STREET	25.96	7.50	edecapt	
G	11. Description of Waste Materials						ntainers	13. Total	14. Unit		lisc. Comme	X 10 10 10 10 10 10 10 10 10 10 10 10 10	
E N	a. NON DOT REGULATED MAT	FRIAI		<u> </u>		No.	Туре	Quantity	Wt./Vol.				
E						Nicy,	Type	Qiv.	Wt./ Vai.				
R	WM Profile	e# 126492	NY			Property and	eriti	APPINE		MATERIAL SERVICES	-uergi-f	hilligan Tarihili	
A T	b. Waste Name							Total		INSTRUCTION OF STREET	A STATE OF THE STA	Court Helia	
0						No.	Type	fity.	Wt./ Ver.	0	omment	\$	
R	WM Profile #		The process		A - FRANCIS	COLUMN AND A	TOTAL COLUMN		political state				
	c. Waste flank					Nin	Twoke	Total	Wil/Vol.				
								Qay.			unner.		
ŀ	d. Www. Name	WM Profile i	Num 5:	317		A STATE OF	Respond	PTANTER STATE		HE STORY DE	Taring.		
	# # # # # # # # # # # # # # # # # # #					Mars.	Гурн	7001	Wit./ Vol.	C	anvara i		
	MANA Destile #	Variationsk in						Uty.			SCHOOL STANKS		
ŀ	J. Additional Descriptions for Materi					K. Disposal Location			Falling Course	The second secon			
	•			III DISPOSAT EGG									
						Cell				Level			
-	1E Consist the adding to show at the constitution of	A.I. Itata				Grid		<del></del>					
İ	15. Special Handling Instructions and												
	126492NY – GASOLINE CONTAM! Handling Institutions	INATED ORBAN	I FILL/L	DEBKIS				WEIG	HT IS ESTIM	ATED 🦠	er al		
ŀ	Purchase Order # Preoficials Carle	. Microbiae		ENA	EDCENCY COA	ITACT / DUC	DNE NO						
ŀ	16. GENERATOR'S CERTIFICATE:	- 14V. 1GOI			ERGENCY CON	TIACI / PHO	JNE NO.:	amergers	ly Contact			<u>.</u>	
	I hereby certify that the above-describ	ed materials are	not haz	ardous w	astes as define	ed by CER Pa	art 261 or a	ny annlicabl	a ctato law ha	va haan fu	lly and		
	accurately described, classified and pa	ckaged and are i	n prope	r conditio	n for transpor	tation accor	rding to app	licable regu	lations.	ve been iu	ny and		
	Printed Name	whol		Signat	ure 🔰	$\sim$	Λ <i>/</i>			Month	Day	Year	
7	17. Transporter 1 Acknowledgement of	of Receipt of Mat	orials			•••	X-			_5_	22	23	
R -	Printed Name		.011013	Signati	ure J		·			Month	Day	Year	
N S	· CM	rouce	2	X	STA	5//	C			William	Day	1681	
o L	18. Transporter 2 Acknowledgement of	of Receipt of Mat	erials	-									
Printed Name Signature				ure					Month	Day	Year		
R	E R												
	19. Certificate of Final Treatment/Disp	oosal	_		,					1	<u> </u>	1	
A	I certify, on behalf of the above listed t	reatment facility	, that to	the best	of my knowle	dge, the ab	ove-describ	ed waste w	as managed in	complianc	e with all		
;	applicable laws, regulations, permits a	nd licenses on th	e dates	listed abo	ove.								
20. Facility Owner or Operator: Certification of receipt of non-hazardous materia						vered by th	is manifest.			<del></del>			
Ý	Printed Name	W KCOV	_	Signat	ure		()i			Month	Day	Year	
1	White- TREATMENT, STORAGE, DISPOS	SAL FACILITY COP	PY	Rlud	GENERATOR #	ecopy	1	<u>len</u>	low- GENERAT	[_ <b>Ŋ</b>	<u> </u>	لككا	
			•	piue.	STINE UNION H	- CUFT		re	IOW- GENEKA	IOK #T COP	<b>'T</b>		

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1-EOPY

Mill Seat Landfill 303

Original

Ticket# 1141371

Bergenstel Management

Ph: (585) 494-3000

Customer Name TRECENVIRONMENTAL-126492 Carrier

MJD M J DREHER TRUCKING, INC. Vehicle# 27

Ticket Date 05/22/2023
Payment Type Credit Account
Manual Ticket#

Container

03/07/2024

Route

Driver Check#

Hauling Ticket# Destination

Billing# 0002489

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
Ιn	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

Prod	uct		LD%	Qty	MOM	Rate	Tax/Fee	Amount Origin
1	Cont Soil	Pet-RGC-Tons-		21.70	Tons			MON

Total Tax/Fees Total Ticket

Driver`s Signature



		1. Generator's	US EPA	ID No.	M	anifest Doc	No.	2. Page 1	of				
	NON-HAZARDOUS MANIFEST	1 8	- \$ a · * · , p à · *	4540		Nasa			44.0	MID	27		
	3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE 30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614	FORBES	536	CENTRA	te Address (if AL AVE. NY 14605	different than m	ailing):			126	96764 s ID		
	4. Generator's Phone 585-428-7892	Maria Mana								Seaterator's	199)		
	5. Transporter 1 Company Name		L	6.	US EPA I	D Number					134	ila sets se	
	Trans M & Dispery News				JS DVA I	Ottomber		C. State 1	C. State Transporter's ID State Transporter   D. Transporter's Phone Transporter   Phone				
	7. Transporter 2 Company Name			8.	US EPA I	D Number							
	Transporter 2 Commany Name				US EPAT	Takingher.			ransporter's orter's Phon		s transpi		
	9. Designated Facility Name and Site	Address		10.	US EPA	ID Number		The second secon	orter 3 Filon	***************************************	sporter 2 2008/1994		
	WM OF NEW YORK AT MILL SE 303 BREW RD. BERGEN, NY 14416	EAT LANDFILL	• Un EPA 10 Morabar				G. State F H. State F Phone	acility ID acility Phone	State	Facility 1-3000 Fi	10		
	BENGEN, NY 14410			Maria Maria									
G	11. Description of Waste Materials			18890	STATE OF THE PARTY.	12. Co	ntainers	13. Total	14. Unit	518111-2014	THE SALE	1,4000	
E N	a. NON DOT REGULATED MAT	FRΙΔΙ				No.	Туре	Quantity	Wt./Vol.	1. 1.	Aisc. Comme	ents	
E	al Non Bot Nedobyteb WAT	LIMAL				No	Type	Total J. Otv.	Wk/Vol				
R A	WM Profile	# 126492	.NY			To the second	Distriction of the Control of the Co		Virginia de	Section 2			
T O	b. Waste Penne					No.	Type	Total Qtv.	Wt./ Vol		omment		
R	WM Profile #	WWI Inchier	Vien de			(A. 111194)   1.15 1177	Magnetica.			S Paragara	and Spage	dia 1	
	c. Wasa atame					N, i,	i ype	Tołsi Oty.	Wt./ Val		omment		
	WM Profile #	Num Es	<u> </u>		felling	g (Friedrich	(676)	20 H War 191	6 July 2001		The street		
	d. Westerbeansp					No.	Type	Total Civ.	Vic./ Vol	<u>(</u>	en-ment	r.	
	WM Profile #	Sovietic Na	senijer •			\$4.10 TO 10	Action and	The state of the s	THE SHOP		P-101.1500		
	J. Additional Descriptions for Materi	als Listed Above				K. Disposal Location							
						-					Llavel		
						Cell Grid				Level			
	15. Special Handling Instructions and	Additional Inform	nation							_l			
	126492NY – GASOLINE CONTAM Handling Instructions	INATED URBAN	FILL/[	DEBRIS				WEIG	HT IS ESTI	MATED Sys	er al		
ļ	Purchase Order# Purchase Order	r Nontber		EM	ERGENCY CO	NTACT / PHO	NE NO.:	timelyem	y Contact				
	16. GENERATOR'S CERTIFICATE:  I hereby certify that the above-describ	ed materials are	not haz	ardous wa	astes as defin	ed by CFR Pa	ort 261 or a	any applicable	e state law, I	nave been fu	lly and		
f	accurately described, classified and particle Printed Name	ckaged and are ii	n prope	Signatu		tation accor	ding to ap	plicable regu	lations.	Month	Day	Year	
1		11/067				<del></del>	~~_	1		5	27	23	
T R -	17. Transporter 1 Acknowledgement of	of Receipt of Mat	erials		. ).	1-1	2 <i>00</i>						
A   N	Printed Marine	MILTEN	nΙ	Signatu	re I			10/	-	Month	Day	Year	
P	18. Transporter 2 Acknowledgement of	of Receipt of Mat	erials			1 /	1			72,7	00	حي	
R T	Printed Name			Signatu	ure					Month	Day	Year	
+	19. Certificate of Final Treatment/Disp	nosal		.L									
4	I certify, on behalf of the above listed t applicable laws, regulations, permits ar	reatment facility	, that to	the best	of my knowle	dge, the abo	ove-descril	bed waste w	as managed	in complianc	e with all		
-	20. Facility Owner or Operator: Certifi					vered by thi	s manifest		-,				
;	Printed Name	()		Signati		100		)		Month	Day	Year	
	White- TREATMENT, STORAGE, DISPOS	SAM FACILITY COP	V	Rhio 4	GENERATOR #	12 COPY	YNG	<u>/</u>	la CENES		22	んり	
	Pink- FACILITY USE ON	<i>[</i> ]	•		GENEBATUK F RANSPORTER		' 0	Yel	iow- GENER	ATOR #1 COP	Υ .		



Waste Management Mill Seat Landfill 303 Brew Rd.

Bergen, NY, 14416 Ph: (585) 494-3000 Original Ticket# 1141392

Customer Name TRECENVIRONMENTAL-126492NY TR Carrier MJE Ticket Date 05/22/2023 Vehicle# 21 MJD M J DREHER TRUCKING, INC. Volume

Ticket Date 05/22/2023
Payment Type Credit Account

Manual Ticket# Hauling Ticket# Route

State Waste Code

Check# Billing # Gen EPĂ ID 12696766

Manifest Destination

PO

Profile Generator Grid X20

190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)

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

Container

Driver

12/21/2023

0002489

This vehicle was over the legal weight limit . Comments

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

Total Tax Total Ticket

	Driver`s	s Signature	
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	,	1. Generator's	US EPA II	D No.	Manifest Doc I	No.	2. Page 1	of				
	NON-HAZARDOUS MANIFEST	vá v	Design (reg	y to	Plant.	1171	F* ti	i de	W2D SI			
	3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE I	ORBES	Genera	ator's Site Address (	f different than ma	ailing):		st Number	126	96766		
	30 CHURCH ST. ROOM 300B ROCHESTER, NY 14614 4. Generator's Phone	ate's Phon :		ENTRAL AVE. ESTER, NY 14605			•	B. State Generator's ID  SCottle Generator's IB  }				
	5. Transporter 1 Company Name			6. US EPA	ID Number			140	the balance			
	TransMTDLearneary Name			US EPA	io Nuisiae		· · · · · · · · · · · · · · · · · · ·	ransporter's		Transpo		
	7. Transporter 2 Company Name			8. US EPA ID Number				orter's Phon	CONTRACTOR	perter i Markeria	***************************************	
				-	: '			ransporter's	**************************************	endorum erasi Sili salas (Sili		
	Transporte: 2 Company Manag				HOMENS W.		F. Transporter's Phone Transporter x					
	9. Designated Facility Name and Site	Address	10. US EPA ID Number				(*)(:. <u></u>	eritari, juake	Property of			
	WM OF NEW YORK AT MILL SE 303 BREW RD.	AT LANDFILL		(\$P\$ 長膝八	ID Wangled		G. State F	acility ID acility Phon		585-494-3000 Farities		
	BERGEN, NY 14416								illi repraint			
G E	11. Description of Waste Materials			*\$ ·	No.	ntainers Type	13. Total Quantity	14. Unit Wt./Vol.	i. t	Aisc. Comme	nts	
N E	a. NON DOT REGULATED MAT	ERIAL			Flys	E (Trass	cotol Cay	Wt./ Vol				
R	WM Profile	e# 126492	NY .		i in Germani	er su	generalisticus.	Military (Company)				
A T O	<b>b.</b> Waste Alimo				The state of the s	Type	iotal Oby.	Wt./ Vol		om hrient	ą '	
R	WM Profile #	Walter of a	Autolia Z		115 7 7 9	F Figure 1			Thanparl	a a subjects	eler Eler	
	c. Maste Marte				North	The state of the s	intel Oty.	Wr / Vol		odiningo,	¥	
	WM Profile #	WW Pjoile	Hambs		1(1)51#14den (1)		Pales III	Fire by Charles	a lay lay a	2010	河口和	
	d. Waste Mame	*			. 195.		101.4 1117.	W(,/ Wg	. 4]	ontagni		
		Wat Collins			position services	10027E-11	There execute a sub-	Market Cong	ir Taylor Fa			
	J. Additional Descriptions for Mater	iais Listed Above			K. Dispos	al Location						
					Cell Grid				Level			
	15. Special Handling Instructions and	Additional Inforr	nation						•			
	126492NY – GASOLINE CONTAM Finanding Institutions	INATED URBAN	N FILL/D	EBRIS	•		WEIG	GHT IS ESTI	MATED 5	jetil		
	Purchase Order # Purchase Cit /ie	z Notainea		EMERGENCY C	ONTACT / PHO	ONE NO.:	Emergen	sy Curtida.				
	16. GENERATOR'S CERTIFICATE:  I hereby certify that the above-described place is in the second place is in the second place.								have been fo	ılly and		
	accurately described, classified and pa	Ckaged and are i	n proper	Signature	ortation acco	ruing to app	olicable regu	lations.	Month	Day	Year	
	Janet	DIVE		7	LO No				5	22	23	
T R	17. Transporter 1 Acknowledgement	of Receipt of Ma	terials		<u></u>							
A N S	Printed Name ARY ROWH	EY		Signature a	2 R	موريك	7		Month 5	22 22	23	
P	18. Transporter 2 Acknowledgement		terials		1	<u> </u>				7		
R T E R	Printed Name			Signature				_	Month	Day	Year	
	19. Certificate of Final Treatment/Dis	posal		L						<u> </u>		
F A C I	I certify, on behalf of the above listed applicable laws, regulations, permits a		vledge, the ab	ove-describ	ed waste w	as managed	in complian	ce with al	l 			
20. Facility Owner or Operator: Certification of receipt of non-					covered by th	is manifest	•					
T Y	Printed Name (	Klon	,	Signature	im	Q	en	n	Month	22	Year	
	White-TREATMENT, STORAGE, DISPO Pink- FACILITY USE ON		PΥ	Blue- GENERATO Gold- TRANSPORT			Ye	llow- GENER	RATOR #1 CO	PY	7	



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. Vehicle# 21 Volume

Y20

Ticket Date 05/24/2023
Payment Type Credit Account

Manual Ticket# Hauling Ticket# Route

State Waste Code

Manifest

12696770

Destination

Grid

Profile Generator

126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS) 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

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

Container

Billing #

Gen EPĀ ID

12/21/2023

0002489

Driver

Check#

This vehicle was over the legal weight limit . Comments

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

Total Tax Total Ticket

Driver	`s	Signature	
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		1. Generator's	US EPA ID No	. Ma	nifest Doc N	lo.	2. Page 1	of			
	NON-HAZARDOUS MANIFEST	11(4)	oscatorio (d		Nonh		1701	E4	MJDZI		
	3. Generator's Mailing Address:		Generator's	s Site Address (If di	fferent than ma	ailing):	A. Manife	st Number			
	CITY OF ROCHESTER ATTN: JANE F	ORBES					w	MNA	12696770		
	30 CHURCH ST. ROOM 300B		536 CENT		B. Stat	e Generator's ID					
	ROCHESTER, NY 14614 4. Generator's Phone		ROCHESTE	R, NY 14605			State Generalor a 10				
	585-428-7892	Posific Prince co									
	5. Transporter 1 Company Name		6.	US EPA ID	100 mm	10. 5 14	Başı'nın ayının biyaksan olt ş	6			
	Tran <b>Match</b> Company Moves			US FRA E	- Muraba			ransporter's	<del></del>	_	
			8.	US EPA ID	Number		D. Transp	orter's Phoi	ne Transporter (Phai Medical modes (2008)	(2-79)(8-2)	
	7. Transporter 2 Company Name		0.				F. State T	ransporter's			
	Company Name			United A.	r Marian North			orter's Phor			
	9. Designated Facility Name and Site	Address	10.	US EPA I	D Number		STATE OF STATE OF	gredstas, a		Nes.	
	WM OF NEW YORK AT MILL SE		. 31.		G. State F	acility ID	State Caulity HB				
	303 BREW RD.	Non-su			acility Phon	e 585-494-3000 Facility	-				
	BERGEN, NY 14416			TO Court St. Color Co.	11.5		Phone	10.1		7.35	
	DENGE, 111 111110		40.44				Later Salba Militari Later Salba Militari			nana.	
G	11. Description of Waste Materials			A CALL STATE OF THE PARTY OF TH		ntainers	13. Total	14. Unit	I. Misc. Comments		
G E	a. NON DOT REGULATED MATE	DIAL			No.	Туре	Quantity	Wt./Vol.			
N E		INIAL			No.	LAIss	Total Ulw.	WiJVe	,		
R		# 126492	NY		1-12 W.F.S.	i-1011/02/01		Transcription			
A T	b. Waste Mann			<del></del>			Total	MA. A LONG CONTROL DESCRIPTION			
0					Nes	Type	Oty.	Wt./ Ve	'. comments	İ	
R	WM Profile #	a each ar	MORPH H	The state of the s	A.C. Ares						
	c. Messie Marrie	isi		lote)	Wil J Ve						
		No.	1400	Ouy.	i		Canada Santa S				
	WM Profile #	Number	1. kao 2. julius - 149		AND THE STREET	a and a description		THE PAR			
	d. Wusha Marke	No.	Typs	Pinta) Oty.	W4.7 Vo	Comments					
									Name	A APPLICAT	
	WM Profile # J. Additional Descriptions for Materi	K Discount		and the second	H. Law	A DATA SECURITION OF SECURITIO	694.				
	J. Additional Descriptions for Materi			k. Dispos	al Location						
					Cell				Level		
					Grid	•					
	15. Special Handling Instructions and	Additional Inforr	mation			•					
	126492NY – GASOLINE CONTAM	INATED URBAN	N FILL/DEBR	IS			WEIG	GHT IS EST	IMATED Special		
	Harelling testrections										
	Purchase Order #   Purchase Order	· Humber		EMERGENCY COI	NTACT / PHO	ONE NO.:	troeogra	cy Contaci			
	16. GENERATOR'S CERTIFICATE:					. 254					
	I hereby certify that the above-describ accurately described, classified and pa								, nave been fully and	,	
	Printed Name	-/1.0		gnature	×~	1			Month Day Ye	ar	
	Janes	DIE		$\rightarrow$	S' E				5 24 25	3	
T R	17. Transporter 1 Acknowledgement	of Receipt of Ma		(_)		//					
A N	Printed Name	NEW	Si	gnature X	· R				Month Day Ye	<u>\$</u> _	
S P	18. Transporter 2 Acknowledgement	of Receipt of Ma	terials	~ ~ /	<u> </u>	0					
O R T	Printed Name			gnature					Month Day Ye	ar	
E R											
	19. Certificate of Final Treatment/Disp	nocal	L					<u>.</u>			
F	· · · · · · · · · · · · · · · · · · ·		v. that to the	best of my knowle	edge, the ah	ove-descril	oed waste w	vas manage	d in compliance with all		
C	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.										
L	20. Facility Owner or Operator: Certif	fication of receip	t of non-haza	rdous materials co	overed by th	nis manifest	:.				
T Y	Printed Name /	a 166.	Si	gnature	_	OM	2-11		Month Day Ye	ar	
	Jermaine )	HC100	in	Jan	٦	Je C		,,	19 24 d	ر	
	White-TREATMENT, STORAGE, DISPO	SAL FACILITY CO	PY B	lue- GENERATOR	#2 CQPY _/	-	Yε	enow- GENE	RATOR #1 COPY		

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY

**Mi**ll Seat Landfill

Original

Ticket# 1141664

Ph: (585) 494-3000

Customer Name TRECENVIRONMENTAL-126492 Carrier Ticket Date 05/24/2023 Payment Type Credit Account

Bergeraste Kanlade Ment

Vehicle# 21

Container

MJD M J DREHER TRUCKING, INC.

Manual Ticket# Route

Driver

12/21/2023

Hauling Ticket#

Check#

Destination

Billing# 0002489

Grid

Y20

Manifest 12696769
Profile 126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS) Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

PO#

Time Scale In 05/24/2023 08:20:22 SCALE1 Out 05/24/2023 08:20:22

Operator Inbound kking5 kking5

Gross 71820 lb 28820 lb 43000 lb Tare

Net Tons

21.50

Comments

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

> Total Tax/Fees Total Ticket

Driver`s Signature



	1. Generator's U	S EPA ID No.	Manifest Do	s No				
NON-HAZARDOUS MANIFEST	1	and and all	Mannest DO		2. Page		MTh	
3. Generator's Mailing Address:		Generator's Site Add				Tight.	W2D 51	
CITY OF ROCHESTER ATTN: JANE	FORBES	Generator 5 Site Add	IFESS (If different than	mailing):	A. Mani	fest Number		
30 CHURCH ST. ROOM 300B		536 CENTRAL AV	F		1	<b>NMNA</b>	12696769	
ROCHESTER, NY 14614		ROCHESTER, NY 14				B. Stat	e Generator's ID	
1002	ation's March						Campalor's D	
5. Transporter 1 Company Name		6. U	S EPA ID Number		150a m			64.4 V 10 65
1- SHMODE CONTRACTOR					C. State	Transporter's	s ID Character at a term	
7. Transporter 2 Company Name			- Drá ró Maraba			porter's Phor		
		8. υ	S EPA ID Number		7 <sub>06</sub> - 15		ing Accept to A. Comment of the Comm	
Transport of December 18 december		.//	ويدرفره والالالان والمائليا		E. State	Transporter's	I <b>D</b> State Frensp	Name of Principal
9. Designated Facility Name and Site	Address				William Commence of the Commen	orter's Phon	e frankpunter2	
		10.	JS EPA ID Number	r				140
WM OF NEW YORK AT MILL SE	AT LANDFILL	, N.	TPA ID Gurdier			Facility ID	State country p	
303 BREW RD.						Facility Phone	e 585-494-3000	ogi z
BERGEN, NY 14416		男是不知识。 第二		24.22 Str. Jun.	Phone	u, 100		
11. Description of Waste Materials			12. Co	ontainers	13. Total	14. Unit	The TRANSPORT	ti.
a. NON DOT REGULATED MATE	RIAI		No.	Туре	Quantity	Wt./Vol.	I. Misc. Commen	ts
			No.	Tyjys	វែលវិទ្យាវ	Mt./ Vet.		
WM Profile	# 126492NY	,	2500		City			
b. Waste Name	120432IVI		0.000		146.70			4
			No.	Type	Total	V/II./ Vol.		
WM Profile #	A NAZI BIRAN I BIRAN AN				CAY.	i	Contante	
c. Whate Karns	WM Portg. Park	Stag.						Tribate
			No.	Evps	Total	Wity Vol.		
WM Profile #	WW Craide Mus	done	Party Company		City.	L		
d. Waste Harre		14.25 (Lis		The Park		L Section	A CONTRACT OF STREET	erine. Afrika
			No	iyoe	Total	Wt./ Yor.		
WM Profile #			*****		Uty.	rasay and	Court enginemen	
J. Additional Descriptions for Materia	ofter II, offer Mugae	May .	in The second					
•			K. Dispos	al Location				NA CONTRACTOR OF THE PARTY OF T
			Cell	<del></del>			<u> </u>	
			Grid				Level	
15. Special Handling Instructions and Ad	dditional Informatio	on						
126492NY – GASOLINE CONTAMIN	IATED URBAN FIL	L/DEBRIS			WEIG	UT IC CCTIA	IATED.	
Home Hings Institution to					WLIG	חווס באוועו	IATED Sympley	
Purchase Order # Purchase Order	Mupabe :	EMERGENO	Y CONTACT / PHO	NE NO :	Esamera de	se to south out		
16. GENERATOR'S CERTIFICATE:					guergen			
I hereby certify that the above-described accurately described classified and pack	d materials are not	hazardous wastes as	defined by CER Pa	ert 261 or an	v annliaaki-	-4-4.1.1		
accurately described classified and pack Printed Name	aged and are in pro	per condition for tra	nsportation accor	ding to appli	y applicable icable regul:	state law, ha ations	ive been fully and	
Trilled Name	Solhe!	Signature	1000				Month Day	Year
17. Transporter 1 Acknowledgement of	Possint of Man		48W	<u> </u>	$\overline{}$			
Printed Name	Neceipt of Material			ر 		\		
* CARY ROWL	EVI	Signature	m Rev	وسوم	_	,	Month Day	Year
18. Transporter 2 Acknowledgement of I	Receipt of Materials						5 24 3	13
Printed Name		Signature	<u>U</u>					
		Jigiidlule					Month Day	Year
19 Cortificate of Fig. 17								
19. Certificate of Final Treatment/Dispos	al						<del></del>	
l certify, on behalf of the above listed trea applicable laws, regulations, permits and	atment facility, that	to the best of my kr	owledge, the abo	ve-described	l waste was	s managed in	compliance with all	
20. Facility Owner or Operator: Certifica	uon or receipt of no		als covered by this	manifest.				
1 Mi Kino		Signature	m 1/.	. 1			Month Day	Year
White-TREATMENT, STORAGE DISPOSAL	FACILITY CODY	Plus States		4			12 24 B	3
Pink- FACILITY USE ONLY		Blue- GENERAT		0	Yello	w- GENERAT	OR #1 COPY	
JACIETT USE UNLY		Gold- TRANSPO	RTER #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 Ticket Date 05/22/2023 Payment Type Credit Account

Manual Ticket# Hauling Ticket# Route

State Waste Code

Manifest

12696787 Destination

PΟ Profile

Generator

Grid X20

126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS) 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

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

Container

Billing # Gen EPA ID

03/07/2024

0002489

Driver

Check#

Comments This vehicle was over the legal weight limit .

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

Total Tax Total Ticket

Driver`s	Signature	
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		1. Generator's	US EPA ID I	No. M	anifest Doc	No.	2. Page 1					
	NON-HAZARDOUS MANIFEST	G/	YELDS OF		News, 3	1215	-	(*i.	- OTM	27		
	3. Generator's Mailing Address:	<u>.</u>	Generato	or's Site Address (If d	lifferent than m	ailing):	A. Manife	est Number		-		
	CITY OF ROCHESTER ATTN: JANE	FORBES					l w	MNA	126	96787		
	30 CHURCH ST. ROOM 300B		1	NTRAL AVE.					e Generator'	s ID		
	ROCHESTER, NY 14614 4. Generator's Phone		ROCHES	TER, NY 14605				State	Graeratovi;			
	585-428-7892	Maria Para da										
	5. Transporter 1 Company Name		6.	US EPA II	) Number	•	18 (19 (19 (19 (19 (19 (19 (19 (19 (19 (19	rman - Lu			raj.	
	To Motion Drehmy Name			138 e. 128 fi	a Maria bus			ransporter's		Thatspe	HorsD	
	7. Transporter 2 Company Name		8.					orter's Pho				
			0.	US EPA II	) Number			ransporter's	·ID	i Santania Marana		
	Fransporter 2 Company Migus			(2) (BPA) [	Yeldingage		<u> </u>	orter's Phon		-parter A		
	9. Designated Facility Name and Site	Address	10	. US EPA	ID Number			Para III na a				
	WM OF NEW YORK AT MILL SE	FATIANDEILL		n to the section	a sea con to		G. State F	acility ID	Vrate	Tarality (	17.	
	303 BREW RD.	-AI LANDIILL	·	tourthAtt	J. N. Joséphan J. O. Japan J. M. J.		1	acility Phon	e 585-49	1-3000	officy	
	BERGEN, NY 14416				10 Land	nere e e e e e e e e e e e e e e e e e e	Phone	1 - Printer (17)		1 1 2 7 10	eric separat	
	,		11/5	en en en en en en en en en en en en en e								
G E	11. Description of Waste Materials					ntainers	13. Total	14. Unit	1. 1	Aisc. Comme	nts	
E N	a. NON DOT REGULATED MAT	ERIAI.			No.	Туре	Quantity गण्डनहै	Wt./Vol.				
Ε		2111112			Projection (Control of the Control o	Type	Oly.	WL/ Vol				
R	WM Profile	e# 126492	2NY			True True	PRODUCTION OF THE PROPERTY OF	2511165			1 1 1 1 1 1 1 1 1	
A T	b. Waste floors					30 300 111121	fotal		2000 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	, ASSEMPTATION	Territorial March	
0					No.	Type	Otty.	Wt./ Vol		ommond.	S	
R	WM Profile #	No M. Probled	Namber			out of the	11.2.7	la cesti con per	CONTRACTOR	GH0	er e	
ı	c. Masta Pegras				N. C.	Eype	Total	WIL÷ Vo		onanesi	:	
							Lally.					
ł	d. Waste Name	Wist Profile (	Manyor			Robert Company	Part of the state	THE STATE OF THE S	112 402	Strieben	WW. 1971	
	Washington Memory				No.	fype	ernig!	Wt./ Vol		Çanançat Çanançat		
	MARA Destilo #	Wysyl grafin, is:			STREET SECTION		CGY		te i sirikkinga m		**************************************	
ŀ	J. Additional Descriptions for Mater	· .			K. Dispos	al Location	Times.	1000	#i.	ke zaminez nen	Politica.	
	·				1 5.5555							
					Cell				Level			
}	45 Constalling Broad and	A 1 1991			Grid							
	15. Special Handling Instructions and											
	126492NY – GASOLINE CONTAM	IINATED URBAN	A HIFT\DFR	RIS			WEIG	SHT IS ESTI	MATED S	asore <sup>1</sup>		
ŀ	Hannifing Institutions  Purchase Order# Purchase Orde	ne Bliste daza	_	EMERGENCY COI	MTACT / DU	ONE NO	200		<del></del>			
-	16. GENERATOR'S CERTIFICATE:	1 100 (11110)		EWIERGENCY COI	VIACI / PHO	JNE NO.:	trnergen	ry Confrict				
	I hereby certify that the above-describ	ed materials are	not hazard	ous wastes as define	ed hv CFR P	art 261 or a	ny annlicabl	e state law	have been fu	ully and		
ļ	accurately described, classified and pa	ckaged and are i	in proper co	ndition for transpor	tation acco	rding to app	licable regu	lations.		my and		
	Printed Name Vin F	where	5	Signature	ton	$\sim 1$			Month	Day	Year	
7	17. Transporter 1 Acknowledgement	of Receipt of Mat	terials		<del>) • •</del>		-		5	22	23	
R A	Printer Name, of	DOTAI		signature )	1	7/1/n			Month	Day	Year	
N S	× 11012-111	OKBO		*/W	19/1	///			5	22	حج	
P	18. Transporter 2 Acknowledgement	of Receipt of Mat	terials		1 7							
R T	Printed Name			Signature			-		Month	Day	Year	
R												
	19. Certificate of Final Treatment/Disp	posal				_				<b>L</b>		
F A	I certify, on behalf of the above listed	treatment facility	y, that to the	e best of my knowle	edge, the ab	ove-describ	ed waste w	as managed	l in complian	ce 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.											
;}	20. Facility Owner or Operator: Certif	ication of receipt			vered by th	is manifest.						
Y	Levinaine JAV	Kron		Signature	<i></i> –	$\bigcirc$		_	Month	Day	Year	
X	White-TREATMENT, STORAGE, DISPO	SAL FACILITY COF		Blue- GENERATOR	#2 COPY		vn Yal	llow- GENER	<u> </u>	22 PY	25	
	Pink- FACILITY USE ON			old- TRANSPORTER						•		



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. Vehicle# 21 Volume

Ticket Date 05/22/2023
Payment Type Credit Account

Manual Ticket# Hauling Ticket# Route

State Waste Code Manifest 12696768

Destination

Driver Check#

Billing # 0002489

12/21/2023

Gen EPA ID

Container

X20 Grid

Profile Generator

126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS) 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER .

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

Comments

Prod	duct	LD%	Qty	MOU	Rate	Tax	Amount	Origin
1	Cont Soil Pet-RGC-	100	22.18	Tons				MON

Total Tax Total Ticket

Driver`s	Signature	•



- NON HAZABDOUG MANUSSCS	1. Generator's US	EPA ID No	). Ma	anifest Doc N	10.	2. Page 1	of	W	<b>-</b> :			
NOM-HAZARDOUS MANIFEST	Q #630 +	131 ( N 1)		Magneti	\$ TH	1,000	i, r	W20	21			
3. Generator's Mailing Address:		Generator'	s Site Address (If d	ifferent than m	iling):	A. Manife	st Number					
CITY OF ROCHESTER ATTN: JANE						w	MNA	12696768				
30 CHURCH ST. ROOM 300B			TRAL AVE.			B. State (	Generator's ID					
ROCHESTER, NY 14614	Generator's Phone					STER, NY 14605						
585-428-7892	addax 1 1 11 11 11.											
5. Transporter 1 Company Name	I	6.	US EPA II	) Number			opravenska Hangaria kolenska		ally Was	and distribution		
T. 105 MOTED impany stame			JS EFA II	) Number			ransporter's II		Francijas			
7. Transporter 2 Company Name		8.	IIC EDA II	O Number		D. Transp	perior i January					
		6.				E. State Ti	ransporter's II					
Franciscontes à Company (Miller			US FPA II	) Metrody to			orter's Phone		parter t			
9. Designated Facility Name and Site	Address .	10.	US EPA	ID Number				2 14 2 2 2	ing the second s			
WM OF NEW YORK AT MILL S	EAT LANDFILL		(18.1.63.1)	) Paraixa		G. State F		Faultry 3				
303 BREW RD.	((1))		19.2 (18.1%)	u a mantalizh (k		H. State F	585-494	-3000	citity			
BERGEN, NY 14416				idates e esta e e e e e		Phone:	165 No. 45 N. 522 PH. 187	ir dag ka	ing - 21 Critical and	TO THE REAL PROPERTY.		
			de la servicio de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta	a digitari	n Halling de P		tperior according		eralijalia Verstavas ir	entre de la companya de la companya de la companya de la companya de la companya de la companya de la companya		
G 11. Description of Waste Materials		• ~~~	congress you amongston this and in property and the second constitution of	12. Coi	tainers	13. Total Quantity	14. Unit Wt./Vol.		1isc. Commer			
a. NON DOT REGULATED MA	TERIAL			140.	Туре	Quantity	-		•			
E A NON DOT REGUESTIFE WITH	· =-···· · <del></del>			Mou	1 <sub>2</sub> pe	O.y.	Wit/Vol.					
WM Profi	le # 126492N	Υ			dardre di	Part of				in in the second		
b. Wasts Marre						Total	1211 7 . 1					
O				No.	Type	O,ty.	Why Vet.	(C	oasnert.	5		
WM Profile #	Wist Additions	raber		10.00	7.	# 77 m		12.00		- 150 (mpr)		
c. Marke framer				No	Lype	Takal	- 1917 Vol.		refectioners.			
						Qsy.						
d. Waste Marie	WW Profile N	unber		et and the		nation of the	enienskiersk	FIRM FOR		Allering a		
O. ANAMA CHANK				No.	Type	l'otal	wr./ Wai.	£.	omana, ad			
1448 # PA	a Alizana Mise in Ali An					Oliv.	10 (11 (12 (12 (13 (13 (13 (13 (13 (13 (13 (13 (13 (13		(80) 100/164			
J. Additional Descriptions for Mate	rials Listed Above	na MACH		200-1-000-000-000-000-000-000-000-000-00	al Location	1000		L. Company		70.139		
The state of the s												
			×.	Cell				Level				
4F Constalled 2011	d Addition 11 5			Grid			<u></u>	<u> </u>				
15. Special Handling Instructions and			uc.			14180-	NIT IS EST	ATES :	1			
126492NY – GASOLINE CONTAN	VIINATED URBAN F	-ill/DEBR	115		•	WEIG	SHT IS ESTIM	IAIED 🤼	r Kraid			
Handling Lestrections  Purchase Order # Purchase Ond	mp Alugadasa		EMERGENCY CO	NTACT / DI	ONE NO :	Carriera	ov Contach					
16. GENERATOR'S CERTIFICATE:	KON EMPLEMENTE		LIVIERGENCY CO	MIACI/PH	DIVE NU.:	C111.72.737	og tilletter i					
I hereby certify that the above-descr	ibed materials are n	ot hazardo	us wastes as defin	ed by CFR P	art 261 or a	nv applicabl	e state law. h.	ave been fi	ılly and			
accurately described, classified and p									,			
Printed Name	TI/hoi	S	gnature	$\sqrt{S}$				Month	Day	Year		
17. Transporter 1 Acknowledgemen	t of Passint of Mata	riale	11	~/	<del>`)                                    </del>			5	22	23		
Printed Name			gnatule			· · · · · ·		Month	Day	Year		
x BARY ROW	HEY		6 of	$r \sim r^2$	vy			3	32	23		
18. Transporter 2 Acknowledgemen	t of Receipt of Mate	rials	0	/ <del></del> -								
Printed Name		Si	ignature					Month	Day	Year		
: 												
19. Certificate of Final Treatment/Di	sposal	1							'			
I certify, on behalf of the above listed	treatment facility,			edge, the ab	ove-descril	bed waste w	as managed i	n complian	ce with al	j		
applicable laws, regulations, permits												
20. Facility Owner or Operator: Cer	rification of receipt o			overed by th	is manifest	:		1 :	<del> </del>	<del></del>		
Printed Names  1 erm A · Ne A	K Com	Si	igna <u>ture</u>		$\cap$	un		Month	Day	Year		
White- TREATMENT, STORAGE, DISP	OSAL FACILITY CORY	, <u> </u>	Blue- GENERATOR		, H		llow- GENERA	TOR #1 CO		10(7		
Pink- FACILITY USE O			old- TRANSPORTE			16	"OAA GEIAFIA		• •			
FILIK- FACILITY USE C	/ITE!	90	OIG- INANSPUNIE	IN THE COPY								



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 Ticket Date 05/22/2023
Payment Type Credit Account
Manual Ticket#

Hauling Ticket# Route

State Waste Code Manifest 12696767

Destination

PO

Profile Generator Grid X20

126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS) 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

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

Container Driver

Billing #

Gen EPA ID

Check#

03/07/2024

0002489

This vehicle was over the legal weight limit . Comments

Prod	luct	LD%	Qty	MOU	Rate	Tax	Amount	Origin	
1	Cont Soil Pet-RGC-	100	22.17	Tons		·		MON	

Total Tax Total Ticket

Driver`s Signature	
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NON-HAZARDOUS MANIFEST	1. Generator's US E	PA ID No.	Manifest	Doc N	lo.	2. Page 1	. of			
NON-HAZARDOOS IVIANIFES I	Cago.	er sa sa sa sa	ļ	i Juli	: 1	173	£	MJD	, 27	
3. Generator's Mailing Address:	G	enerator's Site	Address (If different	than ma	iling):	A. Manife	est Number			
CITY OF ROCHESTER ATTN: JANE I						\ \ <u>\</u>	/MNA	126	96767	,
30 CHURCH ST. ROOM 300B		36 CENTRAI						Generato		
ROCHESTER, NY 14614 4. Generator's Phone	RO	OCHESTER, N	IY 14605					) deletato.		
585-428-7892 General	ther's Phone									
5. Transporter 1 Company Name		6.	US EPA ID Num	ber			The second			
TranMJTA Company Market			US CPA IO Hun	Serve			ransporter's		e voldinije	NO RECORDED AND ADDRESS.
		<u> </u>				D. Transp	orter's Phon	e Tran	ajaon Gar	Ellaghe
7. Transporter 2 Company Name		8.	US EPA ID Num	ber						
Transporter a Cogressov Natao			CONTRACTOR			<b>—</b> ——	ransporter's		<u>e Trap p</u>	
9. Designated Facility Name and Site	Address	10.	US EPA ID Nur	nber			orter's Phone		roche. Na	
WAA OF NEW YORK AT MALL CE	ATLANDEN					G. State F			a Parcificy	
WM OF NEW YORK AT MILL SE 303 BREW RD.	ATLANDFILL		AS EPA III Man	0128			acility Phone		4-3000	
BERGEN, NY 14416						Phose		303 43	4 3000	
DENGEN, NT 14410						Harry			Top The	a di mira
11 Description of Macto Materials		\$1541.	Parent Line Parent Line	12. Cont	ainers	13. Total	14. Unit	<u> </u>		
11. Description of Waste Materials			N		Туре	Quantity	Wt./Vol.	l.	Misc. Comme	ents
a. NON DOT REGULATED MATE	ERIAL		Nj.	, I	1770	Toly	Wt./ Vol.			
W155 CI	426402404					CFV.				·
b. Whate Sares	# 126492NY		7 <u>C.</u>	lagu			Tara Salah		Sept.	
The state of the s			į.	<i>.</i> .	Type	Total	wt./ Vol.		Remedien	i vi
14/8 A D C1 - 44		i		IX SOURCE o		City.				
c. Managar Managar	Wild elektrises fattas	n seg si		ir bail.	117 March		Arrens (1981)	e e e e e e e e e e e e e e e e e e e		
			ħ0 a	).	14100	řokal ce-	Wey Vo.	į į	Manual Sali	i s
WM Profile #	Vyfyl Profii: Nam	la a g	PAGE Cartes	ti tiliji.		Oby. Walioza	ALCO STATE		A STATE OF THE STA	a disensi di
d. Weste Name				Thurs 2		A STATE OF THE PARTY OF THE PAR	7.51E	T-04_5;	The second	34. A
			N	. I	Typic	Total (	With Vol.	Ü	Marintari	
WM Profile #	Whi Croffic beauty				12.00	To the state of th			8 S. W. W. P.	
J. Additional Descriptions for Materia			K. D	sposal	Location	MANAGEMENT AND ADMIT	· 一个	2504.0	524	Number of
			Cell					Level		
15. Special Handling Instructions and A	Additional Information		Grid							
126492NY – GASOLINE CONTAMI Plantiling Instructions	NATED OKBAN FILI	-\DFRKI2				WEIG	HT IS ESTIN	IATED	ran wal	
Purchase Order # Purchase Chider	A3		DOENIGU CONTA OT							
16. GENERATOR'S CERTIFICATE:	1987/4/11/2001	EIVIE	RGENCY CONTACT ,	PHOI	NE NO.:	fine-genc	y Contact			
hereby certify that the above-describe	ed materials are not l	aazardous was	tos as dafinad bu C	FD D	. 201	19 1.1				
accurately described, classified and pac	kaged and are in pro	per condition	for transportation	rk Par accord	ing to app	ıy applicable licable regul	state law, h ations	ave been ti	illy and	
Printed Name	Eden	Signatut	e			\		Month	Day	Year
	LOIDE		7 8 4	<u>~</u>	<u> </u>	+		5	22	23
17. Transporter 1 Acknowledgement o	Receipt of Material							<del>-</del>		
× 1201	RT2(Mu)	Signatur	ent	A	N/A	17/		Month	Day	Year
18. Transporter 2 Acknowledgement o	f Receipt of Materials		20/1			M		15	2	25
Printed Name		Signatur	re					Month	T	T w
		"	-					Wonth	Day	Year
19. Certificate of Final Treatment/Dispo						<del></del>			<u></u>	L
-		t to the best	familia = 1 1							
I certify, on behalf of the above listed tr applicable laws, regulations, permits an	d licenses on the dat	es listed above	ı my кпоwledge, th e.	e abov	/e-describe	ed waste wa	is managed i	n complian	e with all	
20. Facility Owner or Operator: Certific				y this	manifest					
Printed Name ·		Signatur		,				Month	Day	Year
TECHAINC JAC	Som		kum	_	On	en		, Contain	00	23
White-TREATMENT, STORAGE DISPOS	AL FACILITY COPY	Blue- G	ENERATOR #2 COP			Yell	ow- GENERA	TOR #1 CO	<b>∟≪.≪</b> PY	ا د. عوا
Pink- FACILITY USE ONL		Gold- TR	ANSPORTER#1 COL	4						

Mill Seat Landfill 303 

Original

Ticket# 1141363

Gross

Tare

Net Tons

Ph: (585) 494-3000

Customer Name TRECENVIRONMENTAL-126492 Carrier Ticket Date 05/22/2023 Payment Type Credit Account

MJD M J DREHER TRUCKING, INC. Vehicle# 21

Manual Ticket#

Container

Driver

12/21/2023

Route

Check#

Hauling Ticket# Destination

Billing#

0002489 X20

Grid

Manifest 12696763 Profile 126492NY

Bergeraste Kanlakte Ment

126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)

Generator 190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

Time Operator Scale Inbound In 05/22/2023 12:06:37 SCALE1 kking5 Out 05/22/2023 12:06:37 kking5

76840 lb 28820 lb 48020 lb 24.01

Comments

This vehicle was over the legal weight limit .

Prod	uct	LD%	Qty	UOM	Amount Origin
	Cont Soil Pet-RGC-Tons				 MON

Total Tax/Fees Total Ticket

Driver`s Signature



# **NON-HAZARDOUS MANIFEST**

		1. Generator's	US EPA ID No	o. Ma	nifest Doc I	No.	2. Page 1	of					
	NON-HAZARDOUS MANIFEST	0.63	ner Walk D		N Cyrik	)@ <sub>1</sub>	l'-i	gr l	W2-D	21			
	3. Generator's Mailing Address:		Generator'	s Site Address (If d	ifferent than m	ailing):	A. Manife	st Number					
	CITY OF ROCHESTER ATTN: JANE I	FORBES					w	MNA	126	96763			
	30 CHURCH ST. ROOM 300B		536 CEN	TRAL AVE.									
	ROCHESTER, NY 14614		ROCHESTI	ER, NY 14605					e Generator's ID Generalise's Yo				
	4. Generator's Phone 585-428-7892	Haris Morpo						200 644 22 6	Grandin E.				
	5. Transporter 1 Company Name		6.	IIS EDA IF	Number			and the second	A STATE OF THE PARTY OF THE PAR				
			0.				C. State Transporter's ID State (1941 spainter II)						
	TorMotor Drowery House			US LPA E	e Algustas.	1	orter's Phon		sporen i				
	7. Transporter 2 Company Name		8.	US EPA II	Number		and the state of t						
	Transports (2 Franceity Napor			. Horizonia	) Muraber		E. State T	ransporter's	ID Stat	a firmspa	stay ili		
								orter's Phon	^	soarter 2			
	9. Designated Facility Name and Site	Address	10.	US EPA	D Number			Middel description		K. II. Kilikari			
	WM OF NEW YORK AT MILL SE	AT LANDFILL		£ 475 . (\$744). £ 1	i falonakas,		G. State F			a Cardlity			
	303 BREW RD.					1	acility Phone	e 585-49	4-3000 <b>E</b>	udijitv			
	BERGEN, NY 14416	7/17/192		"Maryana	NOW LOND	Phone	Para Salitate (III)	7859 777	F. m. 11. set	115			
		14411	THE STATE OF	Triple # 100									
G	11. Description of Waste Materials					ntainers	13. Total	14. Unit	I. Misc. Comr		nts		
E	a. NON DOT REGULATED MAT	FRIAI			No.	Туре	Quantity	Wt./Vol.	-				
E	a non por negoti neb MAT	LINAL			No.	l'y per	Qay.	Will Vol.					
R	WM Profile	e# 126492	NY			Manager State	laging di			Police I and	2.00		
<u> </u>	b. Woode Warre				80 S. C. C. T. W. Maria	11 4 10 10 10 10 10 10 10 10 10 10 10 10 10	Yotal	MINI THINNIPLUME		27.00E1825			
					No.	Type	Qty	Wt./Vol.		coment	6		
R	WM Profile #	Wast Brother			a Webboom	erry Carry and	A. E. E. July	2.000	ti (tamen		llaria.		
Ì	c. West Mapo				10381111111111111		Total	lettersoner:		<u>Ligare versions </u>	A TOWNER		
					β. (∗.	1 4136	CKV.	Wity Vol	1	icamanan i	1		
	WM Profile #	WWI coffle t	Maria (Sept			Paris in the last		7771 <u>622</u>	la analysis	Armin Sala	STANDARD SOL		
ı	d. Minite Witte						Total						
					Mo.	Typs	ΟNy.	Witz/Vol.		JOHN HOLD	5		
	WM Profile #	Pravi Jerotije na	milia e			05 U.S.	alberra	la Timber	at the second		Pathylide.		
	J. Additional Descriptions for Materi	ials Listed Above	•	·	K. Dispos	al Location		L					
					Cell Grid				Level				
ŀ	15. Special Handling Instructions and	Additional Inform	nation		Griu								
	126492NY – GASOLINE CONTAM			ıc			WEIG	LIT IC ECTION	MATED C				
	Hamiling instructions	MATED ORBAIN		.5			WLIC	HT IS ESTI	VIATED				
-	Purchase Order # Purchase Order	F Mills (Essa)		EMERGENCY CON	ITACT / PHO	ONE NO :	_ êmegem	na Cashe aga					
ł	16. GENERATOR'S CERTIFICATE:	140111111		EMENGENCI COI		JIL 110	EHLE, POLIZ	A COURSE					
	I hereby certify that the above-describ	ed materials are	not hazardoi	ıs wastes as defini	ed by CER Pa	art 261 or a	ny annlicable	a stato law l	have been f	ully and			
ļ	accurately described, classified and pa	ickaged and are in	n proper con	dition for transpor	tation accor	rding to app	olicable regu	lations.	nave been n	uny unu			
	Printed Name ( A A A E)	has	Sig	nature	~				Month	Day	Year		
+	17. Transporter 1 Askraylands	A 9C 7			) 0 ' \	<i>Y</i>			1 2	22	23		
;	17. Transporter 1 Acknowledgement of Printed Name	····		unaturali /		<u> </u>				T -	<del>,</del>		
Ì	VOXAV 10	WHRY		nature	ر_ أ	Resu	_چھو		Month	Day 2	g <sup>Year</sup>		
:	18. Transporter 2 Acknowledgement			, - ,	0					0.0	100.5		
<u>;</u>	Printed Name			gnature					Month	Day	Year		
			"	<del>-</del>							<del> </del>		
+	10 Cortificate of Final Tourisment (5)								_		L		
:	19. Certificate of Final Treatment/Disp		46.4-4-4	h and a 6 mars law as 1		d · · · · ·				4.4			
-	I certify, on behalf of the above listed to applicable laws, regulations, permits a	nd licenses on the	, cnat to the l e dates listed	pest oτ my knowle Labove	uge, the ab	ove-describ	ed waste w	as managed	ın complian	ice with all			
.	20. Facility Owner or Operator: Certif				vered by th	is manifest			·	<u> </u>			
;	Printed Name	. ()		gnature					Month	_Dav	Yean		
	1 HM 1 H	162	"	1 /1	mi	TY M	$\mathcal{L}_{\mathbf{u}}$		5	22	3		
	White-TREATMENT, STORAGE, DISPO	SAL FACILITY COP	'Y B	lue- GENERATOR	2 COPY	<del>()</del> '}	Yel	low- GENER	ATOR #1 CC	PY			
	Pink- FACILITY USE ON			Id- TRANSPORTER	#1 COPY	, (	/						

Gold- TRANSPORTER #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 WAT Ticket Date 05/22/2023 Vehicle# 224593 WAT WATER AUTHORITY

Ticket Date 05/22/2023 Payment Type Credit Account

Out 05/22/2023 13:06:18

12696765

Container

Volume

Manual Ticket#

Driver Check#

0002489

Hauling Ticket# Route

Billing # Gen EPA ID

State Waste Code Manifest

Destination

Grid

PO Profile

126492NY (GASOLINE CONTAMINATED URBAN FILL/ DEBRIS)

X20

Generator

190-CITYOFROCHESTERCENTRAL536 CITY OF ROCHESTER

Time In 05/22/2023 12:55:53

Scale Scale1 Scale2

Operator tjacks10 tjacks10

Inbound Gross Tare Net

Tons

46880 lb 24680 lb 22200 lb 11.10

Comments

Prod	luct	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	US EPA ID No.	2. Page	1 of									
	TOTOTIAL AND OUS INTAINIFEST	Que.	markar (1849)		Miller	f spor			9	3			
	3. Generator's Mailing Address:		Generator's Si	ite Address (If	different than r	nailing):		fest Number	т				
l	CITY OF ROCHESTER ATTN: JANE 1 30 CHURCH ST. ROOM 300B	FORBES						VMNA	126	596765	5		
	ROCHESTER, NY 14614		536 CENTRA				-						
	4. Generator's Phone		ROCHESTER,	NY 14605				B. State Generator's ID State Congruin 's 31					
	585-428-7892 Sacretic	abor's Phagas	<u>L</u>										
	5. Transporter 1 Company Name	_	6.	US EPA	ID Number		Language Maria						
	Frank con Water 1	Bureau		DS 08A I	lO Number			Transporter's II		o Pratisp			
	7. Transporter 2 Company Name		8.		D Number		D. Transı	porter's Phone					
	Francoorter 2 Commony Ninnie		0.		,		F State 7	Fransporter's II		Shirth St.			
				- 145 LPA 1 	D Bigmolyse		orter's Phone		.e Transp Isportor				
	9. Designated Facility Name and Site	Address	10.	US EPA	ID Number								
	WM OF NEW YORK AT MILL SE	AT LANDFILL		180 6404 1	D Number		G. State I	Facility ID	Stati	e facility	ID		
	303 BREW RD.			52 I 5 2 9 I	EV BANHUL 160		1	Facility Phone	585-49	4-3000	acility		
	BERGEN, NY 14416		F 11.00 (2.00)			Physic	in the second second		One Control of Control				
						Park St.							
G E	11. Description of Waste Materials				12. Co No.	ntainers	13. Total	14. Unit	1. I.	Misc. Comm	ente		
N	a. NON DOT REGULATED MATE	ERIAL				Туре	Quantity	Wt./Vol.	<del></del>				
E R					No.	Турс	Oty.	Wt./ Vol.					
	WM Profile	# 1264921	NY						710	To part of			
A T	b. Waste Name				\$1	9	Total				ere com		
O R					No.	Type	City.	Wit/Vol.	(	lommen.	rs.		
``	c. Whate Marke	Weld Brokle N	unibur ———		Walter of the					1100			
	• The content of the property of				NG.	Type	Tokal	WL/ Vol		lumumen:	ALL DESCRIPTION OF THE PERSON NAMED IN		
	WM Profile #	N M Profile N	นี้ยายอาจา ซึ่กแผลสา				Giy. Faktirin		1.4				
	d. Waste Name		KORS 1 1 (W 16) 2		Carlos Par		- 15 CO		r Mary				
					No.	Type	Total Tgv.	Wil/ Val.	ā., .	Jackanno			
L	WM Profile #	WW Borda, No	andaca		E Carrier	San Person			C17216 Nac 514		Ment of the second		
	J. Additional Descriptions for Materia	als Listed Above			K. Dispos	l <u> </u>	<u>an an u>	Files Pipes	25. T. 1965.	The state of			
İ					Cell				Level				
T	15. Special Handling Instructions and A	dditional Informa	ation		Grid								
	126492NY – GASOLINE CONTAMI						MEIO	UT IC SONIA					
L	Mandling lastingions		, iely Debilis				WEIG	HT IS ESTIMA	TED	iter fall			
	Purchase Order# Purchase Order	Number	EME	RGENCY CON	TACT / PHO	NE NO ·	Energenc	e a Timo roberto do					
	16. GENERATOR'S CERTIFICATE:												
	I hereby certify that the above-describe accurately described, classified and paci-	d materials are n	ot hazardous wa	stes as define	ed by CFR Pa	rt 261 or an	v applicable	state law hav	e heen fu	lly and			
$\vdash$	accurately described, classified and pac	kaged and are in	proper condition	for transpor	tation accor	ding to appl	icable regul	ations.		ny anu			
	)anot	NOPS	Signatu	re	MAC A	$\mathcal N$ .			Month	Day	Year		
L	17. Transporter 1 Acknowledgement of	Receipt of Mate	rials	<del>- ( ) -</del>	<u> </u>	1			5	22	23		
	Printed Name	m3	Signatu	re	Tal				Month	Day	Year		
$\vdash$			×	GN	7//						Teal		
H	18. Transporter 2 Acknowledgement of Printed Name	Receipt of Mater			<u>//</u>						·		
	Timed Name		Signatu	fe fe					Month	Day	Year		
Ł													
	19. Certificate of Final Treatment/Dispo												
	certify, on behalf of the above listed tre applicable laws, regulations, permits and	that to the best o	of my knowled	dge, the abo	ve-describe	d waste wa	s managed in o	omplianc:	e with all				
_	20. Facility Owner or Operator: Certifica	a nechada on the	uates listen abov	e.									
	Printed Name	- Teceipt 0	Signatur		rerea by this	manifest.							
l	105mBin 94	AMKSON		kin	1.	20 1	2-2-	!	Month	Day	Year		
1	White-TREATMENT, STORAGE, DISPOSA	L FACILITY COPY	Blue- G	ENERATOR #2			Yell	pw- GENERATO	B #1 COD	<u> </u>	L)		
	Pink- FACILITY USE ONLY	,		ANSPORTER	//		·		"I COP	•			

# **Attachment D-3**

Non-Hazardous Water Disposal Documentation

KT074

<b>A</b>	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 3. E	mergency Response Phone	4. Waste T	racking Number	158	
	Generator's Name and Mailin	ng Address	Gen	erator's Site Address (if diffe	rent than mailing addr	ess)		
		City of Soc	nester					
	Generator's Phone:	Rochate	VIZ I					
	Transporter 1 Company Name	ne KRH I	/		U.S. EPA ID		19017	
	7. Transporter 2 Company Nam	ne	Marie III		U.S. EPA ID	Number	3 3553	
	Transporter 2 company man							
	8. Designated Facility Name an	nd Site Address			U.S. EPA ID	Number		
		120 Day Del						
	Facility's Phone:	Coventar 120 Dry Rd	/	1	INY	ROOM	005298	
	9. Waste Shipping Name	e and Description		10. Containers No. Typ	11. Total Quantity	12. Unit Wt./Vol.		
8	1. AZIM F	1A3- NON Regulate	-d 11.45	-				
MATO				1 150	1228	G-		
GENERATOR	2.	tlagar dus petrulen			1			
- 6		<	<10% 995					
	3.							
V a	4.							
								7.33
	13. Special Handling Instruction	as and Additional Information						
	13. Special Harlolling Instruction	is and Additional Information						
	TANK E	Bottoms						
	G. 0 v	- 5020685						
	14 GENERATOR'S/OFFEROR	R'S CERTIFICATION: I hereby declare that the cor	itents of this consignment are ful	y and accurately described a	bove by the proper s	hipping name, and	d are classified, pa	ckaged,
	marked and labeled/placard Generator's/Offeror's Printed/T	ded, and are in all respects in proper condition for t	ransport according to applicable Signatur	nternational and national go	vernmental regulation	S.	Month Da	
V	Generator s/Offeror's Printed ()	WE TOCKES	Johnson	Amor	1/1		1511	5123
INT'L	15. International Shipments	Import to U.S.	Export from U.S.	Port of entry/exit:				
_	Transporter Signature (for exported 16. Transporter Acknowledgme			Date leaving U.S.	//			
TRANSPORTER	Transporter 1 Printed/Typed Na	ame	Signatur	e			Month Da	
NSPO	Transporter 2 Printed/Typed No	See amo	Signatur	e e			Month Da	y Year
TRAI	Transporter 2 Fillited Typed No.	ane						
A	17. Discrepancy		_					
	17a. Discrepancy Indication Sp	Quantity [	Туре	Residue	Partial Re	ejection	☐ Full R	ejection
				Manifest Reference Number				
F	17b. Alternate Facility (or Gene	erator)			U.S. EPA ID	Number		
FACI	Facility's Phone:							
DESIGNATED FACILITY	17c. Signature of Alternate Fac	cility (or Generator)	1				Month Da	y Year
SIGN/			3.000				77-23-63	-
DES	() 1 () () () () () () () () ()					- 5		
	18 Designated Facility Owner	or Operator: Certification of receipt of materials cov	vered by the manifest except as	noted in Item 17a				
	Printed/Typed Name	or operator. Certification of receipt of materials con	Signatu		1/1/		Month Da	y Year
*	/	Lid Johns			-91		51	6.25

# **Attachment D-4**

Hazardous Sludge Disposal Documentation

Please	print	OF	type	

ease print or type.	7	DC.	SIL	+	Forr	n Approved.	OMB No. 2050-0
UNIFORM HAZARDOUS WASTE MANIFEST N Y R 0 0 0 2 6 1 5 7 8 1	And the second	ergency Respons 807-7455	e Phone	4. Manifest	Tracking N	umber	9 FLE
5. Generator's Name and Mailing Address CITY OF ROCHESTER 30 CHURCH STREET ROCHESTER NY 14614 Generator's Phone: 5 8 5 4 2 8 - 7 8 9 2	CITY 536	tor's Site Address OF ROCH CENTRAL / HESTER I	ESTER	han mailing addre			
6. Transporter 1 Company Name SUN ENVIRONMENTAL CORP				U.S. EPAID		176	9 5 8
7. Fransporter 2 Company Name  8. Designated Facility Name and Site Address	5. Jr	(		U.S. EPAID	Number 3		154
CYCLE CHEM, INC. 550 INDUSTRIAL DRIVE LEWISBERRY PA 17339 Facility's Phone: 747 938 4700						7098	3 8 2 2
9a. HM 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	4	10. Conta No.	iners Type	11. Total Quantity	12. Unit Wt./Vol.		Vaste Codes
RQ UN3077, WASTE Environmentally hazardous substances n.o.s. (NON TSCA TANK SLUDGE)  9. PGIII	, solid,	008	DM	03200	P	0008	
X RQ UN3077, WASTE Environmentally hazardous substances n.o.s. (NON TSCATANK SLUDGE, PPE, DEBRIS) 9, PGIII	, solid,	003	DM	01200	р	D008	
4.							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignm marked and labeled/placarded, and are in all respects in proper condition for transport according to a Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Ackil Lertify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity. Generator's/Offeror's Painted/Typed Name	ent are fully pplicable int nowledgmer	and accurately de ernational and nat t of Consent. Thy (if I am a sm	escribed abov tional governi all quantity go	ve by the proper s mental regulations	hipping nam	e, and are class	m the Primary
16. International Stripments Import to U.S. Export fro			mtry/exit:	$\sqrt{}$			8 120
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name	Signature		-/-	1		Mont	
Transporter 2 Printed/Typed Name  Thermand Pettians	Signature	>	17		3	Mont	h Day Yea
18. Discrepancy Indication Space Quantity Type		Residue		Partial Re	jection		Full Rejection
18b, Alternate Facility (or Generator)		lanifest Reference	e Number:	U.S. EPA ID	Number		
Facility's Phone: 18c. Signature of Alternate Facility (or Generator)	14					Mon	th Day Ye
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disp	3.		40. 1	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the median Printed/Typed Name (1)	Signature	pt as noted in Ite	m 18a	111	2	()Mon	th Day Yea



# Cycle Chem, Inc.

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

# General Chemical Corporation

133-138 Leland Avenue

Framingham, MA 01702

Phone: (508) 827-5000

Fax: (508) 875-5271

# LAND DISPOSAL RESTRICTION NOTIFICATION AND CERTIFICATION FORM

Generator Name:

Generator EPA ID #: N

00021-0578

Manifest #

DIL 455119 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.

	Α	В	C
Line #	Previously shipped LDR on file	NWW / WW	EPA Waste Codes and subcategory reference letter (if applicable)
Α		nww	1008a
В			
С			
D			

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

D001	A	Ignitable characteristic wastes, except high TOC ignitable liquids subcategory
D001	В	High TOC (> 10%) ignitable liquid subcategory
D003	Α	Reactive sulfide subcategory
D003	В	Reactive cyanide subcategory
D003	С	Water reactive subcategory
D003	D	Other reactive subcategory
D006	А	Cadmium non-battery subcategory
D006	В	Cadmium containing batteries subcategory
D008	Α	Lead non-battery subcategory
D008	В	Lead acid batteries subcategory
D009	Α	High mercury organic subcategory (> 260 PPM Total Mercury)
D009	В	High mercury inorganic subcategory (> 260 PPM Total Mercury)
D009	С	Low mercury subcategory (< 260 PPm Total Mercury)
D009	D	Mercury wastewater subcategory

(2) SF	PENT SOLVENT	WASTE CONS	TITUENTS						
Circ	le applicable wa es F001-F005.	aste code(s) and	constituent	(s) for each	n manifest line	item containing	EPA spent sol	vent wasto	
25.545 20.225									
ABC	DF001	ABCD	_F002	ABCD_	F003	ABCD_	F004	ABCD_	F005
ABCD	-ace	tone	ABCC	)	-ethyl ether				
ABCD			ABCC	-	-methanol	/			
ABCD	-n-bi	utyl alcohol	ABCC	)	methylene c	hloride			
ABCD		butyl alcohol	ABCC		-methyl ethyl				
ABCD_	-	oon disulfide	ABC		methyl isob				
ABCD_		oon tetrachloride			nitrobenzen	е			
ABCD_		probenzene	ABCE		pyridine				
ABCD ABCD	m-c		ABCE		-telrachleree	thylene			
ABCD	-p-ci		ABOL		toluene -1,1,1-trichlo	and the same			
ABCD		sylic acid	1 ABCC		1,1,1-trichlo 1,1,2-trichlo				
ABCD		lohexanone	ABCE	1	trichloroethy				
ABCD		chlorobentene	ABCE			nofluoromethane	2		
ABCD	ethy	1 acothe	ABCE	)		ro-1,2,2-trifluor			
ABCD	ethy	benzene	ABCE	)	xylenes				
star	dards listed ip 4	ned in 40 CFR 26 0 CFR 268.48 (F 043 codes listed	001-F005 c	constituents	identified in se	ection (2) and si	pecific constitue	ents for EPA	
	/ A						None Prese	ent	
8	/ A						None Prese	ent	
/	A						None Prese	ent	
	A						None Prese	ent	
(4) HC	W MUST THES	E WASTE STRE	EAMS BE N	MANAGED	?				
For e	each manifest line	item, <u>circle</u> appli	cable treatme	ent/requirem	ent. For contain	ninated soil, circle	e applicable choi	ce as indicated	•
ABCD	This waste is n	on-hazardous per	40 CFR 261	, and is not i	restricted from la	and disposal und	er 40 CFR subpa	art D.	
(A)B C D	This is an EPA appropriate trea	hazardous waste atment standard se	that is not a et forth in 40	contaminate CFR subpa	d soil or hazarde rt D prior to land	ous debris. Was I disposal.	te must be treate	d to the	
ABCD	This is a hazard	dous debris ( > 60	mm/2.36 inc	h) and is sul	oject to the alter	native treatment	standards of 40	CFR 268.45.	
ABCD	This is a hazard	dous waste contar	minated soil.	This contant	ninated soil does	s/does not (circle o	one) contain listed		
	hazardous was	tes and does/doe	s not (circle one	exhibit a c	haracteristic of I	hazardous waste	and is subject		
	to/complies w standards.	ith <sup>(circle one)</sup> the so	il treatment s	tandards as	provided by 268	8.49(c) or the uni	iversal treatment		
ABCD	This is an FPA	hazardous waste	that meets a	ll annlinable	treatment stand	ards eat fadh in	40 CED 200	nort D	
2000. Tel (2000) Tel (1000)	and can be land	dfilled without furth	ner treatment	l. I certify ur	nder penalty of t	aw that I have no	ersonally avaming	pari D, od and	
		the waste through						a dilu	
	certification tha	t the waste compl	es with the t	reatment sta	indards specifie	d in 40 CFR Part	268 Subpart D	and all	

I certify that all information on this and all associated documents is complete and accurate to the best of my knowledge.

Signature:

Printed Name: Jane MH Forbes

Date: 6.8.2023

applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false

certification, including the possibility of a fine and imprisonment.

(5) CERTIFICATION

# 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-feet 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-feet 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.

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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	on Samples		
GP-02	13 to 13.5'	1308	
GP-03	11.5 to 12'	0.4	
GP-04	10.5 to 11'	0.3	CP-51 VOCs, CP-51 SVOCs, RCRA  Metals, PCBs
GP-06	12-12.5′	0.0	Wietais, r CDs
GP-08	13.5-14'	0.0	
Urban Fill Waste Ch	aracterization Samp	oles	
Fill-Comp-01			TCL SVOCs, RCRA Metals, Pesticides,
Fill-Comp-02	0 to 4'		Herbicides, PCBs, Reactivity, pH,
Fill-Comp-03		0.0	Ignitability
Fill-01	2′	0.0	
Fill-02	2.5′		TCL VOCs
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.

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#### **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.

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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

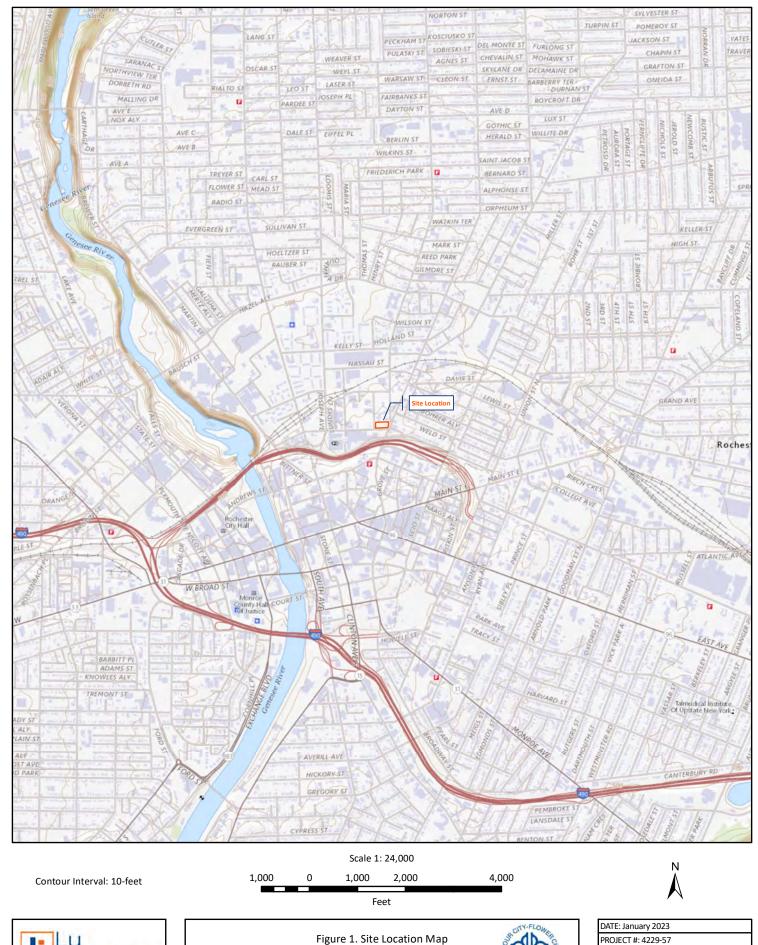




Figure 1. Site Location Map 536 Central Avenue City of Rochester, NY



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

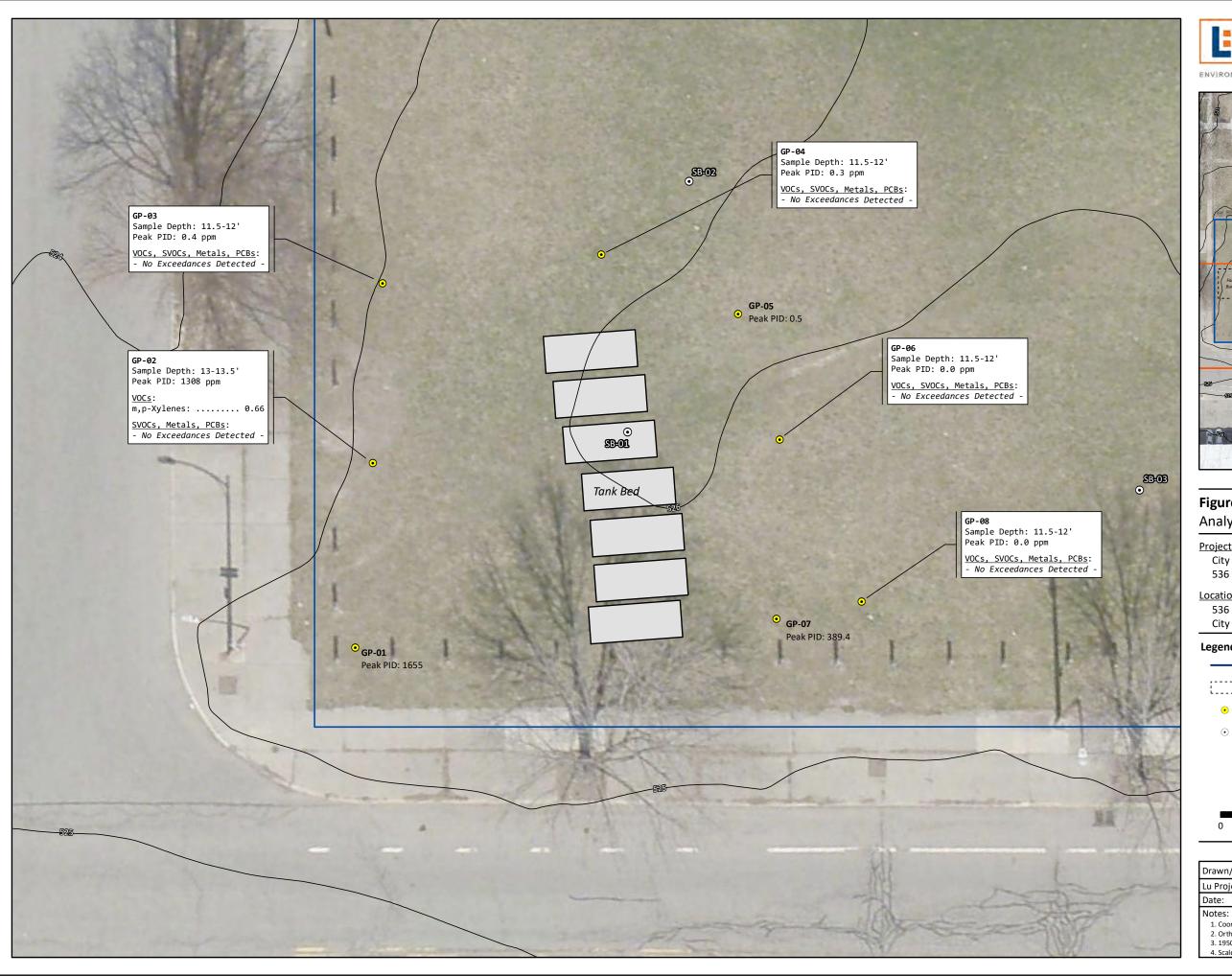
Note: Tank sizes approximated at 4' x 10' (1,000-gallons)



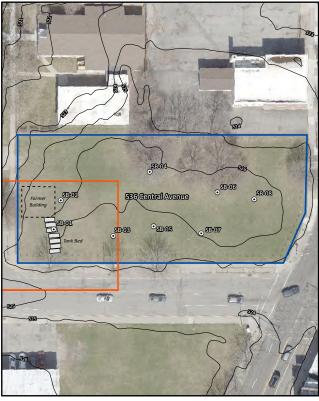
Drawn/Checked By: BGS/GLA Lu Project Number: 4229-57

Date: January 2023

- 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

Results presented in parts per million (ppm)
 Reported result indicates exceedance of

1950 Sanborn Map Structure

Lu Engineers Soil Boring

Previously Installed Soil Boring

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

1. Coordinate System: NAD 1983 State Plane NY West FIPS 3103 Feet

- 2. 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				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'
Detected Parameters <sup>1</sup> :				Date:	12/13/2022		12/14/2022		12/15/2022		12/16/2022	12/13/2022	
EDA 0350 VOG-		Part 37	5 SCOs <sup>2</sup>		Result Q		Result Q		Result (	2	Result Q		Result Q
EPA 8260-VOCs	Prot. of GW	Unrestricted	Commerical	Industrial	result Q		Result Q		result C	<b>'</b>	Result Q		Result Q
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	٧	0.00848	<	0.00722	<	0.01080
Ethylbenzene	1	1	390	780	< 0.13000	<	0.00689	٧	0.00848		0.0136	<	0.01080
Isopropylbenzene	10				< 0.13000	<	0.00689	٧	0.00848	<	0.00722	<	0.01080
m,p-Xylene	1.6	0.26	500	1,000	0.66		0.00721	٧	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	٧	0.00848		0.0139	<	0.01080
o-Xylene	1.6	0.26	500	1,000	< 0.13000	<	0.00689	٧	0.00848	<	0.00722	<	0.01080
p-Isopropyltoluene					< 0.13000	<	0.00689	٧	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	٧	0.00848	<	0.00722	<	0.01080
EPA 8260-VOCs		Part 37	'5 SCOs <sup>2</sup>		Result Q		Result Q		Result (		Result Q		Result Q
ET A 0200-VOCS	Prot. of GW	Unrestricted	Commerical	Industrial	nesuit Q		nesure Q		Result C	`	nesun Q		nesun Q
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	٧	0.299	<	0.308	<	0.313
Benzo (a) anthracene	1	1	5.6	11	< 0.290	<	0.322	٧	0.299	<	0.308	<	0.313
Benzo (a) pyrene	22	1	1	1.1	< 0.290	<	0.322	٧	0.299	<	0.308	<	0.313
Benzo (b) fluoranthene	1.7	1	5.6	11	< 0.290	<	0.322	٧	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	٧	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	٧	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

#### 536 Central Avenue- Limited Subsurface Investigation

Table 1. Spill Characterization Sampling

Soil Sample Analytical Results				Sample ID:		GP-02		GP-03		GP-04		GP-06		GP-08
Detected Parameters <sup>1</sup> :				Sample Depth:	13	3-13.5'		11.5-12'	10.5-11'			12-12.5'		13.5-14'
Detected Parameters :				Date:	12/	13/2022		12/14/2022		12/15/2022		12/16/2022		12/13/2022
EPA 6010-RCRA Metals		Part 37	5 SCOs <sup>2</sup>			Result Q		Result Q		Result Q		Result	Q	Result Q
LI A 0010 NellA Wettils	Prot. of GW	Unrestricted	Commerical	Industrial		nesun q		nesun Q		nesure e	`	nesure	`	nesur Q
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 <sup>2</sup>				Result Q		Result Q		Result C		Result	Q	Result Q	
E1 A 0002-1 CB3	Prot. of GW	Unrestricted Use	Commerical Use	Industrial Use		nesur Q		Result Q		Result C	`	nesuit	۲	nesuit Q
Aroclor 1016	3.2	0.1	1	25	<	0.179	<	0.168	٧	0.156	<	0.167	<	0.152
Aroclor 1221	3.2	0.1	1	25	<	0.179	<	0.168	٧	0.156	<	0.167	<	0.152
Aroclor 1232	3.2	0.1	1	25	<	0.179	<	0.168	٧	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	٧	0.156	<	0.167	<	0.152

#### Notes:

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#### 536 Central Avenue - Limited Subsurface Investigation

Table 2. Fill Characterization Sampling

S. T. S			Sample ID:		Fill-01	Fill-Comp-01		Fill-02	Fill-Co	mp-02	Ŧ	Fill-03	Fill-Comp-03
Soil Sample Analytical Results			Sample Depth:		2'	0-4'		2.5'	0-		+	2'	0-4'
Detected Parameters <sup>1</sup> :			Date:	12	/13/2022	12/13/2022	1	2/13/2022		/2022	$\pm$	12/13/2022	12/13/2022
EPA 8260-VOCs		Part 375 SCOs <sup>2</sup>			Result Q	Result Q		Result Q			Q	Result Q	Result (
	Unrestricted Use	Commerical 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		-	$oldsymbol{\perp}$	< 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		-	T	< 0.01710	
Bromodichloromethane				<	0.00938		<	0.00986		-	T	< 0.00684	
Bromoform		-		<	0.02340		<	0.02470		-	T	< 0.01710	
Bromomethane				<	0.00938		<	0.00986		-	$\top$	< 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		È	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	`	0.00938		_	0.16700		_	_	< 0.00684	
Methyl acetate	0.20			<	0.00938		<	0.00986			_	< 0.00684	
Methyl tert-butyl Ether	0.93	500	1,000	<	0.00938		<	0.00986		_	_		
Methylcyclohexane	0.93		1,000	<	0.00938		<	0.00986			_	< 0.00684 < 0.00684	
	0.05	500	1,000	<	0.00938		<	0.00986		-	_		
Methylene chloride	0.05	500	1,000	<	0.02340	-	_	0.02470		-	_	< 0.01710 < 0.00684	
o-Xylene	0.26	500	1,000	<	0.00938		-	0.01240		-	_		
Styrene			300				<				_		
Tetrachloroethene	1.3	150		<	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:

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- 2 NYSDEC Part 375 Soil Cleanup Objectives
- < Substance not identified above the minimum laboratory quantitation limit
- -- Sample not analyzed for referenced parameter

#### 536 Central Avenue - Limited Subsurface Investigation

Table 2. Fill Characterization Sampling

Soil Sample Analytical Results			Sample ID: Fill-01 Fill-Comp-01 Fill-02 Fill-Comp-02 Fill-03 F		Fill-Comp-03							
Detected Parameters <sup>1</sup> :			Sample Depth:	2'		0-4'	2.5'		0-4'	2'		0-4'
Detected Parameters :			Date:	12/13/2022		12/13/2022	12/13/2022		12/13/2022	12/13/2022		12/13/2022
EPA 8260-VOCs		Part 375 SCOs <sup>2</sup>		Result Q		Result Q	Result Q		Result (	Q Result (		Result (
	Unrestricted Use	Commerical Use	Industrial Use					μ.			-	
1,1-Biphenyl			-		<	0.307 0.307		<	0.291 0.291		<	0.0-0
1,2,4,5-Tetrachlorobenzene					٠.	0.307		١.	0.291		<	
1,2,4-Trichlorobenzene	-		-		٠	0.307			0.291	-		
1,2-Dichlorobenzene 1,3-Dichlorobenzene	-		-			0.307		-		-		
	-		-	-	~	0.307		-		_	-	0.515
1,4-Dichlorobenzene 2,2-Oxybis (1-chloropropane)	-		-	-	~	0.307	-	-	0.291	-	-	0.315
2,3,4,6-Tetrachlorophenol	-	-			<	0.307		<	0.291	-		0.020
2,4,5-Trichlorophenol	-	-		-	<	0.307		-		-		
2,4,6-Trichlorophenol			-	-	<	0.307	-	~		-		
2,4-Dichlorophenol	-		-	-	<	0.307		<			-	
2,4-Dimethylphenol	-		_		<	0.307		<			<	
2,4-Dinitrophenol			-		~	1.230		~	1.160	-	<	
2,4-Dinitrotoluene		-			~	0.307		~	0.291	-		
2,6-Dinitrotoluene			-		-	0.307		-	0.291		-	
2-Chloronaphthalene	-	-	-	-	-	0.307	-	~			-	
2-Chlorophenol					~	0.307	-	~		-	-	
2-Methylnapthalene	-				<	0.307		<	0.291	-	~	
2-Methylphenol		-	-		~	0.307		~	0.291	-		
2-Nitroaniline			-	-	~	0.307	-	~		-	<	
2-Nitrophenol			-		<	0.307		~				
3&4-Methylphenol	-		-	-	~	0.307	-	~		-	-	
3,3'-Dichlorobenzidine	-	-	-		~	0.307		~		-	-	
3-Nitroaniline		-			~	0.307		H	0.291	-		
4,6-Dinitro-2-methylphenol			-	-	-	0.411	-	-	0.390		-	
4-Bromophenyl phenyl ether	-	-		-	<	0.307	-	~			-	
4-Chloro-3-methylphenol			-		~	0.307		-	0.291	-	-	0.020
4-Chloroaniline			-	-	~	0.307	-	-	0.291	-	-	0.315
4-Chlorophenyl phenyl ether	-		-		<	0.307		-			-	
4-Nitroaniline			-		<	0.307	-	-	0.000	-	~	0.020
4-Nitrophenol		-			<	0.307		-			-	
Acenaphthene	20	500	1,000		<	0.307		<			-	0.020
Acenaphthylene	100	500	1,000		<	0.307		<		-		
Acetophenone	100	300			<	0.307		<	0.291	-	<	
Anthracene	100	500	1,000	-	-	0.307	-	-	0.291		<	
Atrazine					<	0.307		<		-	<	
Benzaldehyde		-			<	0.307	-	<	0.291		<	
Benzo (a) anthracene	1	5.6	11	-	<	0.307		<			T	0.383
Benzo (a) pyrene	1	1	1.1		<	0.307		<	0.291		+	0.430
Benzo (b) fluoranthene	1	5.6	11		<	0.307		<		-	+	0.405
Benzo (g,h,i) perylene	100	500	1,000		<	0.307		<			<	
Benzo (k) fluoranthene	0.8	56	110		<	0.307		<			<	
Bis (2-chloroethoxy) methane					~	0.307		~	0.291			
Bis (2-chloroethyl) ether	-			-	<	0.307		<	0.291	-	<	0.315
Bis (2-ethylhexyl) phthalate				-	<	0.307		<	0.291	-	<	
Butylbenzylphthalate		-			~	0.307	-	Ė	0.702	-		
Caprolactam	-			-	<	0.307	-	<		-	<	
Carbazole				-	<	0.307	-	<		-	<	
Chrysene	1	56	110		<	0.307	-	<			Ť	0.385
Dibenz (a,h) anthracene	0.33	0.56	1.1		<	0.307		<	0.291	-	<	
Dibenzofuran	7	350	1,000		<	0.307		<		-	<	
Diethyl phthalate					<	0.307		<			<	
Dimethyl phthalate			-		<	0.307		<			<	
Di-n-butyl phthalate					<	0.307		<			<	
Di-n-octylphthalate					<	0.307		<	0.291		<	
Fluoranthene	100	500	1,000		<	0.307	-	<	0.291		T	0.742
Fluorene	30	500	1,000		<	0.307	-		0.291		<	
Hexachlorobenzene		6	12		<	0.307	-	<		-	<	
Hexachlorobutadiene	0.5	5.6	11		<	0.307	-	<	0.291		<	
Hexachlorocyclopentadiene				-	<	1.230		<	1.160		<	1.260
Hexachloroethane			-		<	0.307		<			<	
Indeno (1,2,3-cd) pyrene					<	0.307		<			<	
Isophorone			-		<	0.307		<			<	
Naphthalene	12	500	1,000		<	0.307		<			<	
Nitrobenzene					<	0.307		<	0.291	-	<	
N-Nitroso-di-n-propylamine					<	0.307	-	<	0.291	-	<	0.315
N-Nitrosodiphenylamine					<	0.307	-	<	0.291	-	<	
Pentachlorophenol	0.8	6.7	55		<	0.614	-	<	0.582		<	0.629
Phenanthrene	100	500	1,000		<	0.307	-	<		-	T	0.361
Phenol	0.33	500	1.000		<	0.307		<	0.291		<	0.315
Pyrene	100	500	1,000		<	0.307		<	0.291		Ť	0.604

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

	1		Sample ID:	Fill-01	1	Fill-Comp-01	Fill-02	T	Fill-Comp-02	Fill-03	1	Fill-Comp-03
Soil Sample Analytical Results			Sample Depth:	2'	+	0-4'	2.5'		0-4'	2'	+	0-4'
Detected Parameters <sup>1</sup> :			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 <sup>2</sup>		Result Q		Result Q	Result Q		Result Q		,	Result Q
	Unrestricted Use	Commerical Use	Industrial Use	•							_	
Arsenic	13	16	16		<	****		-	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	-	Η.	11.0			213
Selenium	3.9	1,500	6,800		<			<	1.05		<	
Silver	2	1,500	6,800		<			<	0.52		<	0.00
Mercury	0.18	2.8	5.7		<	0.00816			0.0352			2.38
EPA 8081-Pesticides	Unrestricted Use	Part 375 SCOs <sup>2</sup> Commerical Use	Industrial Use	Result Q		Result Q	Result Q		Result Q	Result (	Į.	Result Q
44000					+-	0.0027		<b>.</b>	0.0026		-	0.0027
4,4-DDD	0.0033	92	180		<			<	0.0036		<	
4,4-DDE	0.0033	62	120		<			<	0.0036		<	
4,4-DDT	0.0033	47	94		<			<	0.0036		<	0.000
Aldrin	0.005	0.68	1.4		<			<	0.0019		<	
alpha-BHC	0.02	3.4	6.8		<		-	<	0.0019		_	
beta-BHC	0.036	3	14		<			<	0.0019		<	
Chlordane					<		-	<	0.1900		<	
cis-Chlordane	0.094	24	47		<			<	0.0019		<	
delta-BHC	0.04	500	1,000		<			<	0.0019		<	
Dieldrin	0.005	1.4	2.8		<		-	<	0.0036		<	
Endosulfan I	2.4	200	920		<		-	<	0.0019		<	
Endosulfan II	2.4	200	920		<		-	<	0.0036		<	
Endosulfan Sulfate	2.4	200	920		<			<	0.0036		<	
Endrin	0.014	89	410		<			<	0.0036		<	
Endrin Aldehyde					<			<	0.0036		<	
Endrin Ketone					<		-	<	0.0036		<	
gamma-BHC (Lindane)	0.1	9.2	23		<			<	0.0019		<	
Heptachlor	0.042	15	29		<			<	0.0019		<	
Heptachlor Epoxide					<			<	0.0022		<	
Methoxychlor	-				<	*******		<	0.0190		<	
Toxaphene					<			<	0.1900		<	
trans-Chlordane		 Part 375 SCOs <sup>2</sup>			<	0.0019		<	0.0019		<	0.0019
EPA 8081-Herbicides	Unrestricted Use	Commerical Use	Industrial Use	Result Q		Result Q	Result Q		Result Q	Result (	ł	Result Q
2,4,5-Trichlorophenoxyacetic acid					<	0.340		<	0.331		<	0.339
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 <sup>2</sup>		Result Q		Result Q	Result Q		Result Q	Result (	,	Result Q
	Unrestricted Use	Commerical Use	Industrial Use									
Aroclor 1016	0.1	1	25		<			<	0.154		<	
Aroclor 1221	0.1	1	25		<			<	0.154		<	
Aroclor 1232	0.1	1	25		<			<	0.154		<	
Aroclor 1242	0.1	1	25		<			<	0.154		<	
Aroclor 1248	0.1	1	25		<			<	0.154		<	
Aroclor 1254	0.1	1	25		<			<	0.154		<	
Aroclor 1260	0.1	1	25		<			<	0.154		<	
Aroclor 1268	0.1	1	25		<			<	0.154		<	
Aroclor 1262	0.1	1	25		<	0.145		<	0.154		<	0.169
General Chemistry	Unrestricted Use	Part 375 SCOs <sup>2</sup> Commerical Use	Industrial Use	Result Q		Result Q	Result Q		Result Q	Result (	Į.	Result Q
nH	Unrestricted Use	Commerical Use	Industrial Use		+	8.64 at 20.7 °C	_	Η.	8.52 at 20.8 °C		+	8.35 at 20.6 °C
рн Reactivity: Cyanide					<			<	1.00		<	
Reactivity: Cyanide Reactivity: Sulfide								<	10.0		- <	
Ignitability (°C)						Not Ignitable	-		Not Ignitable	<del>-</del>	+-	Not Ignitable
ignitability ( C)		-				ivor ignitable		1	ivor ignitable	-	1	ivot 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

# 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)



	PROJECT	BORING: GP-01
<b>               </b>	City of Rochester	SHEET 1 OF 1
Lu Engineers	536 Central Avenue	JOB # 4229-57
ENVIRONMENTAL . TRANSPORTATION . CIVIL	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	

	s	AMPLE DA	TA		2440 5 0500000000	PID							
NO.	BLOW /6"	RQD %	REC %	CHANGE	SAMPLE DESCRIPTION	(ppm)							
1			50		cmf SAND + cmf GRAVEL	0.0							
2	N/A	N/A	N/A	N/Δ	N/A			N/A	N/A	75	III		
3	N/A			100	0.4	Grey & SAND + SILT little & GRAVEL strong degraded petroleum odor	373.						
4			50	11.1	Strong oder SAND + SILT Some CLAY (moist)	780.5 40.							
	2	No. BLOW /6"	NO. BLOW RQD %	1 50 75 N/A N/A 100	NO. BLOW 16" RQD % REC % CHANGE  0.5'-  1	NO. BLOW RQD % REC % CHANGE  OS' TOPSO! CMF SAND + CMF GRAVEL  OS' TOPSO! CMF SAND + CMF GRAVEL I.HL SILT  Similar Soils  N/A N/A N/A 8'- Grey cmf SAND + SILT I.HL F GRAVEL strong degraded petrolum odor  100  125'- Brown / Srey mf SAND + SILT some CLAY (moist)  Shown odor							

ROCK DRILLING METHOD:

n/a

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

BORING# GP-01 ppm: parts per million

	PROJECT	BORING: GP-02	
Lu .	City of Rochester	SHEET 1 OF 1	
Engineers	536 Central Avenue	JOB # 4229-57	
ENVIRONMENTAL . TRANSPORTATION . CIVIL	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			

D E P		S	AMPLE DA	TA		SAMPLE DESCRIPTION	PID
T H	NO.	BLOW /6"	RQD %	REC %	CHANGE	SAMPLE DESCRIPTION	(ppm
1 2 3	1			90	0.5'-	Topsoil Boun/tan mf SAND + SILT little mf GRAVEL W/ Crushed brick/masony material (FILL)	0.0
5 6 7	2			90		Similar Soils (FILL)	
9	3	N/A	N/A	90		Similar Soils (FILL)	1.2
11 12 13 14 15	4			100	12.5-	odor (Sampled)	3.6 163. 1308 66.5
16 17						Refusal @ 15' bys	
18							
19							
21							
22							
23							
24							

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

n _   11	PROJECT	BORING: GP-03
E e e le e e e e	City of Rochester	SHEET 1 OF 1
Engineers	536 Central Avenue	JOB # 4229-57
ENVIRONMENTAL . TRANSPORTATION . CIVIL	UST Spill Investigation	CHECKED BY: GLA
CONTRACTOR: Trec Environmental	BORING LOCATION: SEE PLA	AN
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		

D E P		S	AMPLE DA	ТА			PID																
T H	NO.	BLOW /6"	RQD %	REC %	CHANGE	SAMPLE DESCRIPTION	(ppm																
1 2 3 4	1		50	05'-	Tops-il Brown conf SAND + conf GRAVEL little conshed brick/ masoning + ash/cinders throughout (FILL)	0.0																	
5					5'-	Similar Soils (FILL) Brown of SAND + SILT																	
6 7	2	5.62		70		Brown of SAND + SILT																	
9		N/A	N/A N/A	N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			Similar soils	0.3
10	3			95		(sampled) (moist)	0.4																
12							(moist)	0.2															
13	4			100			0.4																
15				100		Refusal @ 14.1' bgs																	
17																							
18																							
19																							
20 21	i i																						
22																							
23																							
24																							

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 ppm: parts per million

TCR: total core recovery

	PROJECT	BORING: 67-04
<b>L</b> u Engineers	City of Rochester	SHEET 1 OF 1
Engineers	536 Central Avenue	JOB # 4229-57
ENVIRONMENTAL . TRANSPORTATION . CIVIL	UST Spill Investigation	CHECKED BY: GLA
CONTRACTOR: Trec Environmental	BORING LOCATION: SEE	PLAN
DRILLER: J. Agar	GROUND SURFACE ELEVAT	ION: 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		

D E P		s	AMPLE DA	TA		SAMPLE DESCRIPTION	PID
Т	NO.	BLOW /6"	RQD %	REC %	CHANGE	SAMILE DESCRIPTION	(ppm
1 2 3	1			75	0.5	Topsoil Brown/black conf SAND + conf GRAVEL Constituted brick/masoning + ash/circles + thoughout (FILE)	0.0
5		_			н'-	Brown MP SAND + SILT	
7	2			50		(moist)	
9		N/A	N/A			Similar Soils, some CLAY (moist)	1
10	3			50			0.2
11						(Sampled)	0.3
12							0.0
13						Similar soils	0.2
14	4			75			0.1
15							0.0
16						Reason @ 15.4' bgs	0.0
17							
8							
9							
20							
21							
22							
3							
4							

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

	PROJECT	BORING	G: GP-05					
Lu ,	City of Rochester	SHEET	1 OF 1					
Engineers	536 Central Avenue	JOB #	JOB # 4229-57					
ENVIRONMENTAL . TRANSPORTATION . CIVIL	UST Spill Investigation	CHECK	ED BY: GLA					
CONTRACTOR: Trec Environmental	BORING LOCATION:	SEE PLAN						
DRILLER: J. Agar	GROUND SURFACE ELE	EVATION:	DATUM:					
JCL PERSONNEL: B. Seifert	START DATE: 12/13/	2022 <b>END DATE</b> :	12/13/2022	in war.				
TYPE OF DRILL RIG: 54LT Geoprobe			WA	TER LEVEL	. DATA			
CASING SIZE AND TYPE: n/a		DATE	TIME WATER	CASING	REMARKS			
OVERBURDEN SAMPLING METHOD:	Macro Core							
ROCK DRILLING METHOD: n/a								

D E P		S	AMPLE DA	TA		SAMPLE DESCRIPTION	PID (ppm)		
Т	NO.	BLOW /6"	RQD %	REC %	CHANGE	GAIN EE BEGGAN FIGH			
1 2 3 4	1			50		Topsoil Brown conf SAND & onf GRAVEL (FILL)  Concrete Slab Brown conf SAND & onf GRAVEL coushed brick/massing Fragments throughout (FILL)	0.6		
5 6 7	2			25		Smiler Sils (FILL)			
8		N/A	N/A		8'-	Brown conf SAND + SILT Some CLAY (moist)	1		
9	3			20			0.3		
11							0.0		
12 13 14 15	4			100		Similar Soils			
16							1		
17						Boning terminated @ 16' bgs , no refusal			
18									
19									
20									
21									
22									
23									
24									
25									

Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
 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

- Lu	PROJECT	BORING: GP-06
i ⊨u .	City of Rochester	SHEET 1 OF 1
Engineers	536 Central Avenue	JOB # 4229-57
ENVIRONMENTAL . TRANSPORTATION . CIVIL	UST Spill Investigation	CHECKED BY: GLA
CONTRACTOR: Trec Environmental	BORING LOCATION: SEE PLA	N
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		

		S	AMPLE DA	TA		SAMPLE DESCRIPTION	PID		
1	NO.	BLOW /6"	RQD %	REC %	CHANGE		(ppm)		
1 2 3	ı	N/A		50	0.5'-	Topsoil Brown conf SAND + conf GRAVEL, crushed brick/masony fragments + ash/circles throughout (Fill)	0.0		
4 _ 5 6 7	2			50		Similar 53.15 (Fill)			
9 10 11	3		N/A	100	10' -	Similar So. Is (Fill)  Brown of SAND + SILT			
3 4 5	4			100		(Sampled)			
16					,	Reasal @ 15.4' bys			
7									
8									
9									
0									
2									
3									
4									
5									

- Stratification Lines represent approximate boundary between soil types; transitions may be gradual.
   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# 6P-06

n_	PROJECT	BORING: GP-07
<b>                   </b>	City of Rochester	SHEET 1 OF 1
Engineers	536 Central Avenue	JOB # 4229-57
ENVIRONMENTAL . TRANSPORTATION . CIVIL	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	

D E		s	AMPLE DA	ТА		SAMPLE DESCRIPTION	PID
Н	NO.	BLOW /6"	RQD %	REC %	CHANGE		(ppm)
1 2 3 4	1			100	o.s'-	Topsoil Brown conf SAND & GRAVEL (FILL)	0.0
5 6 7	2			75	-	Similar soils (Fill)	
9 10 11	3	- N/A	N/A	100	8' -	Drown AF SAND & SILT, little At GRAVEL	0.6
12						Similar soils, black petaleum staining a odor Similar soils (moss)	5.6
13 14 15	Ч			100		Diviller 22' 12 (Moth)	389.6
16					-	Person @ 15' bgs	
17							
18							
19							
21							
22							
23							
24					1		

ROCK DRILLING METHOD:

n/a

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 ppm: parts per million

TCR: total core recovery

BORING# GP-07

	PRO	JECT	BORING: GP-08					
<u> </u>	City of Rochester		SHEET	1	OF 1			
Engineers	536 Central Avenue		JOB#	4229	9-57			
ENVIRONMENTAL . TRANSPORTATION . CIVIL	UST Spill Investigati	on	CHECK	ED BY:	GLA	An exemple		
CONTRACTOR: Trec Environmental	BORING LOCATION	N: SEE PLAN						
DRILLER: J. Agar	GROUND SURFACE	E ELEVATION:			DATUM:			
JCL PERSONNEL: B. Seifert	START DATE: 1	2/13/2022	END DATE:	12/13	3/2022			
TYPE OF DRILL RIG: 54LT Geoprobe					WA	TER LEVEL	DATA	
CASING SIZE AND TYPE: n/a			DATE	TIME	WATER	CASING	REMARKS	
OVERBURDEN SAMPLING METHOD:	Macro Core							A 1 A 1
ROCK DRILLING METHOD: n/a								

D E P T		s	AMPLE DA	TA		OAMBI E DECORPTION	PID
T H	NO.	BLOW /6"	RQD %	REC %	CHANGE	SAMPLE DESCRIPTION	(ppn
1 2 3	l			75	0.5,-	Topso.1 Brown conf SAND & conf GRAVEL (Fill)	0,0
5						Similar Sails (G11)	
6	2			75			
8					7'-	Brown of SAND & SILT little of GRAVEL	
9 10 11	3	- N/A	N/A	75		Similar soils	
12 13 14	4			100		Similar 50:15 (moist) (Sampled)	
15						Relisal @ 15.6' bgs	
17							
9							
20							
21							
22							
3		X X					
24							

GENERAL NOTES

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

TCR: total core recovery

BORING#



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 Farmen

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



Client: <u>Lu Engineers, Inc.</u>

**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>	Result	<u>Units</u>	Qualifier Date Analyzed
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



Client: <u>Lu Engineers, Inc.</u>

**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

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: <u>Lu Engineers, Inc.</u>

**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>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date An	alyzed
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: <u>Lu Engineers, Inc.</u>

**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**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<b>Qualifier</b>	<b>Date Analyzed</b>
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</td>
 mg/Kg
 12/19/2022
 16:49

Method Reference(s):EPA 7471BPreparation Date:12/19/2022Data File:Hg221219B

## RCRA Metals (ICP)

Analyte	<b>Result</b>	<u>Units</u>	<b>Qualifier</b>	<b>Date Analyzed</b>
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



Client: <u>Lu Engineers, Inc.</u>

**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**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>		Qualifier	Date An	<u>alyzed</u>
PCB-1016	< 0.145	mg/Kg			12/21/202	2 21:34
PCB-1221	< 0.145	mg/Kg			12/21/202	2 21:34
PCB-1232	< 0.145	mg/Kg			12/21/202	2 21:34
PCB-1242	< 0.145	mg/Kg			12/21/202	2 21:34
PCB-1248	< 0.145	mg/Kg			12/21/202	2 21:34
PCB-1254	< 0.145	mg/Kg			12/21/202	2 21:34
PCB-1260	< 0.145	mg/Kg			12/21/202	2 21:34
PCB-1262	< 0.145	mg/Kg			12/21/202	2 21:34
PCB-1268	< 0.145	mg/Kg			12/21/202	2 21:34
Surrogate	Perce	ent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Ana	lyzed
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

pН

 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

AnalyteResultUnitsQualifierDate AnalyzedReactivity, Cyanide<1.0</td>mg/Kg12/20/2022

**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.



Client: <u>Lu Engineers, Inc.</u>

**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

<u>Analyte</u>	<b>Result</b>	<u>Units</u>	<b>Qualifier</b>	<b>Date Analyzed</b>
Reactivity, Sulfide	<10	mg/Kg		12/20/2022

Method Reference(s):EPA 7.3.4.2Subcontractor 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	<b>Result</b>	<u>Units</u>	<b>Qualifier</b>	<b>Date Analyzed</b>
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-Methylnapthalene	< 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



Client: <u>Lu Engineers, Inc.</u>

**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



Client: <u>Lu Engineers, Inc.</u>

**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

<b>Surrogate</b>	<u>Perce</u>	nt Recovery	<u>Limits</u>	<u>Outliers</u>	<b>Date Analy</b>	zed
Pyrene	< 307	ug/Kg			12/21/2022	13:51
Phenol	< 307	ug/Kg			12/21/2022	13:51
Phenanthrene	< 307	ug/Kg			12/21/2022	13:51
Pentachlorophenol	< 614	ug/Kg			12/21/2022	13:51
N-Nitrosodiphenylamine	< 307	ug/Kg			12/21/2022	13:51
N-Nitroso-di-n-propylamine	< 307	ug/Kg			12/21/2022	13:51
Nitrobenzene	< 307	ug/Kg			12/21/2022	13:51
Naphthalene	< 307	ug/Kg			12/21/2022	13:51
Isophorone	< 307	ug/Kg			12/21/2022	13:51
Indeno (1,2,3-cd) pyrene	< 307	ug/Kg			12/21/2022	13:51
Hexachloroethane	< 307	ug/Kg			12/21/2022	13:51
Hexachlorocyclopentadiene	< 1230	ug/Kg			12/21/2022	13:51
Hexachlorobutadiene	< 307	ug/Kg			12/21/2022	13:51
Hexachlorobenzene	< 307	ug/Kg			12/21/2022	13:51
Fluorene	< 307	ug/Kg			12/21/2022	13:51
Fluoranthene	< 307	ug/Kg			12/21/2022	13:51
Di-n-octylphthalate	< 307	ug/Kg			12/21/2022	13:51
Di-n-butyl phthalate	< 307	ug/Kg			12/21/2022	13:51
Dimethyl phthalate	< 307	ug/Kg			12/21/2022	13:51
Diethyl phthalate	< 307	ug/Kg			12/21/2022	13:51

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<b>Outliers</b>	Date Ana	alyzed
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 8270DEPA 3546Preparation Date:12/20/2022

 Preparation Date:
 12/20/2022

 Data File:
 B65682.D



Client: <u>Lu Engineers, Inc.</u>

**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**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<b>Qualifier</b>	<b>Date Analyzed</b>
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 8081BSubcontractor ELAP ID:10709



Client: <u>Lu Engineers, Inc.</u>

**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	<u>Result</u>	<u>Units</u>	Qualifier Date Analyzed
•	< 9.86		
1,1,1-Trichloroethane		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



Client: <u>Lu Engineers, Inc.</u>

**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: <u>Lu Engineers, Inc.</u>

**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>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date An	alyzed
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: <u>Lu Engineers, Inc.</u>

**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**

<u>Analyte</u>	<b>Result</b>	<u>Units</u>	<b>Qualifier</b>	<b>Date Analyzed</b>
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

## <u>Mercury</u>

 Analyte
 Result
 Units
 Qualifier
 Date Analyzed

 Mercury
 0.0352
 mg/Kg
 12/19/2022 16:51

Method Reference(s):EPA 7471BPreparation Date:12/19/2022Data File:Hg221219B

#### RCRA Metals (ICP)

Analyte	Result	<u>Units</u>	<b>Qualifier</b>	<b>Date Analyzed</b>
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



Client: <u>Lu Engineers, Inc.</u>

**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** 

<u>Analyte</u>	<u>Result</u>	<u>Units</u>		Qualifier	Date An	<u>alyzed</u>
PCB-1016	< 0.154	mg/Kg			12/21/202	22 21:57
PCB-1221	< 0.154	mg/Kg			12/21/202	22 21:57
PCB-1232	< 0.154	mg/Kg			12/21/202	22 21:57
PCB-1242	< 0.154	mg/Kg			12/21/202	22 21:57
PCB-1248	< 0.154	mg/Kg			12/21/202	22 21:57
PCB-1254	< 0.154	mg/Kg			12/21/202	22 21:57
PCB-1260	< 0.154	mg/Kg			12/21/202	22 21:57
PCB-1262	< 0.154	mg/Kg			12/21/202	22 21:57
PCB-1268	< 0.154	mg/Kg			12/21/202	22 21:57
Surrogate	Percei	nt Recovery	<u>Limits</u>	<b>Outliers</b>	<b>Date Ana</b>	lyzed
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

pН

 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

AnalyteResultUnitsQualifierDate AnalyzedReactivity, Cyanide<1.0</td>mg/Kg12/20/2022

**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.



Client: <u>Lu Engineers, Inc.</u>

**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

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<b>Qualifier</b>	<b>Date Analyzed</b>
Reactivity, Sulfide	<10	mg/Kg		12/20/2022

Method Reference(s):EPA 7.3.4.2Subcontractor 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	<b>Result</b>	<u>Units</u>	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-Methylnapthalene	< 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



Client: <u>Lu Engineers, Inc.</u>

**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



Client: <u>Lu Engineers, Inc.</u>

**Project Reference:** Central Ave

Sample Identifier:Fill-Comp-02Lab Sample ID:225970-04Date Sampled: 12/13/2022 13:25

Matrix: Soil Date Received 12/15/2022

Surrogate	Perce	ent Recovery	Limits	Outliers	Date Analy	zed
Pyrene	< 291	ug/Kg			12/21/2022	14:20
Phenol	< 291	ug/Kg			12/21/2022	14:20
Phenanthrene	< 291	ug/Kg			12/21/2022	14:20
Pentachlorophenol	< 582	ug/Kg			12/21/2022	14:20
N-Nitrosodiphenylamine	< 291	ug/Kg			12/21/2022	14:20
N-Nitroso-di-n-propylamine	< 291	ug/Kg			12/21/2022	14:20
Nitrobenzene	< 291	ug/Kg			12/21/2022	14:20
Naphthalene	< 291	ug/Kg			12/21/2022	14:20
Isophorone	< 291	ug/Kg			12/21/2022	14:20
Indeno (1,2,3-cd) pyrene	< 291	ug/Kg			12/21/2022	14:20
Hexachloroethane	< 291	ug/Kg			12/21/2022	14:20
Hexachlorocyclopentadiene	< 1160	ug/Kg			12/21/2022	14:20
Hexachlorobutadiene	< 291	ug/Kg			12/21/2022	14:20
Hexachlorobenzene	< 291	ug/Kg			12/21/2022	14:20
Fluorene	< 291	ug/Kg			12/21/2022	14:20
Fluoranthene	< 291	ug/Kg			12/21/2022	14:20
Di-n-octylphthalate	< 291	ug/Kg			12/21/2022	14:20
Di-n-butyl phthalate	< 291	ug/Kg			12/21/2022	14:20
Dimethyl phthalate	< 291	ug/Kg			12/21/2022	14:20
Diethyl phthalate	< 291	ug/Kg			12/21/2022	14:20

Surrogate	Percent Recovery	<u>Limits</u>	<b>Outliers</b>	Date Ana	alyzed	
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: 12/20/202:

Preparation Date: 12/20/2022 Data File: B65683.D



Client: <u>Lu Engineers, Inc.</u>

**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	<u>Result</u>	<u>Units</u>	<b>Qualifier</b>	<b>Date Analyzed</b>
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 8081BSubcontractor ELAP ID:10709



Client: <u>Lu Engineers, Inc.</u>

**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**

<u>Analyte</u>	Result	<u>Units</u>	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



Client: <u>Lu Engineers, Inc.</u>

**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

Chlorof	orm	< 6.84	ug/Kg	12/19/2022	17:09
Chloron	nethane	< 6.84	ug/Kg	12/19/2022	17:09
cis-1,2-l	Dichloroethene	< 6.84	ug/Kg	12/19/2022	17:09
cis-1,3-l	Dichloropropene	< 6.84	ug/Kg	12/19/2022	17:09
Cyclohe	xane	< 34.2	ug/Kg	12/19/2022	17:09
Dibrom	ochloromethane	< 6.84	ug/Kg	12/19/2022	17:09
Dichlor	odifluoromethane	< 6.84	ug/Kg	12/19/2022	17:09
Ethylbe	nzene	< 6.84	ug/Kg	12/19/2022	17:09
Freon 1	13	< 6.84	ug/Kg	12/19/2022	17:09
Isoprop	ylbenzene	< 6.84	ug/Kg	12/19/2022	17:09
m,p-Xyl	ene	< 6.84	ug/Kg	12/19/2022	17:09
Methyl a	acetate	< 6.84	ug/Kg	12/19/2022	17:09
Methyl	tert-butyl Ether	< 6.84	ug/Kg	12/19/2022	17:09
Methylo	cyclohexane	< 6.84	ug/Kg	12/19/2022	17:09
Methyle	ene chloride	< 17.1	ug/Kg	12/19/2022	17:09
o-Xylen	e	< 6.84	ug/Kg	12/19/2022	17:09
Styrene		< 17.1	ug/Kg	12/19/2022	17:09
Tetrach	loroethene	< 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
Trichlor	roethene	< 6.84	ug/Kg	12/19/2022	17:09
Trichlor	rofluoromethane	< 6.84	ug/Kg	12/19/2022	17:09
Vinyl ch	lloride	< 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: <u>Lu Engineers, Inc.</u>

**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>	<b>Percent Recovery</b>	<u>Limits</u>	<u>Outliers</u>	Date An	alyzed
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: <u>Lu Engineers, Inc.</u>

**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**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<b>Qualifier</b>	<b>Date Analyzed</b>
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 7471BPreparation Date:12/29/2022Data File:Hg221230A

## RCRA Metals (ICP)

Analyte	Result	<u>Units</u>	<b>Qualifier</b>	<b>Date Analyzed</b>
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



Client: <u>Lu Engineers, Inc.</u>

**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* 

<u>Analyte</u>	<u>Result</u>	<u>Units</u>		Qualifier	Date An	<u>alyzed</u>
PCB-1016	< 0.169	mg/Kg			12/21/202	22 22:20
PCB-1221	< 0.169	mg/Kg			12/21/202	22 22:20
PCB-1232	< 0.169	mg/Kg			12/21/202	22 22:20
PCB-1242	< 0.169	mg/Kg			12/21/202	22 22:20
PCB-1248	< 0.169	mg/Kg			12/21/202	22 22:20
PCB-1254	< 0.169	mg/Kg			12/21/202	22 22:20
PCB-1260	< 0.169	mg/Kg			12/21/202	22 22:20
PCB-1262	< 0.169	mg/Kg			12/21/202	22 22:20
PCB-1268	< 0.169	mg/Kg			12/21/202	22 22:20
Surrogate	Perce	ent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Ana	lyzed
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

pН

 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

AnalyteResultUnitsQualifierDate AnalyzedReactivity, Cyanide<1.0</td>mg/Kg12/20/2022

**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.



Client: <u>Lu Engineers, Inc.</u>

**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

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<b>Qualifier</b>	<b>Date Analyzed</b>
Reactivity, Sulfide	<10	mg/Kg		12/20/2022

Method Reference(s):EPA 7.3.4.2Subcontractor 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	<u>Result</u>	<u>Units</u>	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-Methylnapthalene	< 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



Client: <u>Lu Engineers, Inc.</u>

**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



Client: <u>Lu Engineers, Inc.</u>

**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			12/21/202	22 14:48
Dimethyl phthalate	< 315	ug/Kg			12/21/202	22 14:48
Di-n-butyl phthalate	< 315	ug/Kg			12/21/202	22 14:48
Di-n-octylphthalate	< 315	ug/Kg			12/21/202	22 14:48
Fluoranthene	742	ug/Kg			12/21/202	22 14:48
Fluorene	< 315	ug/Kg			12/21/202	22 14:48
Hexachlorobenzene	< 315	ug/Kg			12/21/202	22 14:48
Hexachlorobutadiene	< 315	ug/Kg			12/21/202	22 14:48
Hexachlorocyclopentadiene	< 1260	ug/Kg			12/21/202	22 14:48
Hexachloroethane	< 315	ug/Kg			12/21/202	22 14:48
Indeno (1,2,3-cd) pyrene	< 315	ug/Kg			12/21/202	22 14:48
Isophorone	< 315	ug/Kg			12/21/202	22 14:48
Naphthalene	< 315	ug/Kg			12/21/202	22 14:48
Nitrobenzene	< 315	ug/Kg			12/21/202	22 14:48
N-Nitroso-di-n-propylamine	< 315	ug/Kg			12/21/202	22 14:48
N-Nitrosodiphenylamine	< 315	ug/Kg			12/21/202	22 14:48
Pentachlorophenol	< 629	ug/Kg			12/21/202	22 14:48
Phenanthrene	361	ug/Kg			12/21/202	22 14:48
Phenol	< 315	ug/Kg			12/21/202	22 14:48
Pyrene	604	ug/Kg			12/21/202	22 14:48
Surrogate	Perc	ent Recovery	<u>Limits</u>	<b>Outliers</b>	Date Ana	alyzed
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

2,4,6-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 8270DEPA 3546Preparation Date:12/20/2022

**Preparation Date:** 12/20/2022 **Data File:** B65684.D



Client: <u>Lu Engineers, Inc.</u>

**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	<b>Result</b>	<u>Units</u>	<b>Qualifier</b>	<b>Date Analyzed</b>
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: <u>Lu Engineers, Inc.</u>

**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** 

Analyte Result Units Qualifier Date Analyzed

Mercury 0.0121 mg/Kg 12/19/2022 16:55

Method Reference(s):EPA 7471BPreparation Date:12/19/2022Data File:Hg221219B

RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<b>Date Analyzed</b>
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**

Analyte	Result	<u>Units</u>	Qualifier	<b>Date Analyzed</b>
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



Client: <u>Lu Engineers, Inc.</u>

**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

SurrogatePercent RecoveryLimitsOutliersDate AnalyzedTetrachloro-m-xylene70.512.7 - 10112/21/202222:43

Method Reference(s):

EPA 8082A

EPA 3546

Preparation Date: 12/21/2022

#### Semi-Volatile Organics (PAHs)

Analyte	<u>Result</u>	<u>Units</u>		Qualifier	Date Ana	lyzed
Acenaphthene	< 290	ug/Kg			12/21/2022	2 15:17
Acenaphthylene	< 290	ug/Kg			12/21/2022	2 15:17
Anthracene	< 290	ug/Kg			12/21/2022	2 15:17
Benzo (a) anthracene	< 290	ug/Kg			12/21/202	2 15:17
Benzo (a) pyrene	< 290	ug/Kg			12/21/2022	2 15:17
Benzo (b) fluoranthene	< 290	ug/Kg			12/21/202	2 15:17
Benzo (g,h,i) perylene	< 290	ug/Kg			12/21/2022	2 15:17
Benzo (k) fluoranthene	< 290	ug/Kg			12/21/2022	2 15:17
Chrysene	< 290	ug/Kg			12/21/2022	2 15:17
Dibenz (a,h) anthracene	< 290	ug/Kg			12/21/2022	2 15:17
Fluoranthene	< 290	ug/Kg			12/21/2022	2 15:17
Fluorene	< 290	ug/Kg			12/21/202	2 15:17
Indeno (1,2,3-cd) pyrene	< 290	ug/Kg			12/21/2022	2 15:17
Naphthalene	< 290	ug/Kg			12/21/2022	2 15:17
Phenanthrene	< 290	ug/Kg			12/21/2022	2 15:17
Pyrene	< 290	ug/Kg			12/21/202	2 15:17
Surrogate	Percent	<u>Recovery</u>	<u>Limits</u>	<u>Outliers</u>	Date Ana	yzed
2-Fluorobiphenyl	56	5.5	39.6 - 84.4		12/21/2022	15:17
Nitrobenzene-d5	<b>5</b> 1	l.6	36.5 - 78.2		12/21/2022	15:17
Terphenyl-d14	58	3.4	42.3 - 103		12/21/2022	15:17

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/20/2022
Data File: B65685.D



**Client:** Lu Engineers, Inc.

Central Ave **Project Reference:** 

**GP-02** Sample Identifier:

Lab Sample ID: 225970-07 **Date Sampled:** 12/13/2022 9:15

**Matrix: Date Received** 12/15/2022 Soil

# **Volatile Organics (Petroleum)**

Analyte	Result	<u>Units</u>		Qualifier	Date An	alyzed
1,2,4-Trimethylbenzene	3470	ug/Kg			12/19/202	22 17:28
1,3,5-Trimethylbenzene	1310	ug/Kg			12/19/202	22 17:28
Benzene	< 130	ug/Kg			12/19/202	22 17:28
Ethylbenzene	< 130	ug/Kg			12/19/202	22 17:28
Isopropylbenzene	< 130	ug/Kg			12/19/202	22 17:28
m,p-Xylene	655	ug/Kg			12/19/202	22 17:28
Methyl tert-butyl Ether	< 130	ug/Kg			12/19/202	22 17:28
Naphthalene	406	ug/Kg			12/19/202	22 17:28
n-Butylbenzene	< 130	ug/Kg			12/19/202	22 17:28
n-Propylbenzene	381	ug/Kg			12/19/202	22 17:28
o-Xylene	< 130	ug/Kg			12/19/202	22 17:28
p-Isopropyltoluene	< 130	ug/Kg			12/19/202	22 17:28
sec-Butylbenzene	< 130	ug/Kg			12/19/202	22 17:28
tert-Butylbenzene	< 130	ug/Kg			12/19/202	22 17:28
Toluene	< 130	ug/Kg			12/19/202	22 17:28
Surrogate	Perce	nt Recovery	<u>Limits</u>	<u>Outliers</u>	Date Ana	alyzed
1,2-Dichloroethane-d4		102	74.7 - 140		12/19/2022	17:28
4-Bromofluorobenzene		101	68 - 130		12/19/2022	17:28

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Ana	<u>alyzed</u>	
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

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: <u>Lu Engineers, Inc.</u>

**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>	<b>Date Analyzed</b>
Mercury	< 0.00817	mg/Kg		12/19/2022 16:57

Method Reference(s):EPA 7471BPreparation Date:12/19/2022Data File:Hg221219B

## RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<b>Qualifier</b>	<b>Date Analyzed</b>
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**

Analyte	Result	<u>Units</u>	Qualifier	<b>Date Analyzed</b>
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



Client: <u>Lu Engineers, Inc.</u>

**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

SurrogatePercent RecoveryLimitsOutliersDate AnalyzedTetrachloro-m-xylene66.812.7 - 10112/21/202223:06

Method Reference(s):

EPA 8082A

EPA 3546

Preparation Date:

12/21/2022

#### Semi-Volatile Organics (PAHs)

Analyte	<u>Result</u>	<u>Units</u>		Qualifier	<b>Date Ana</b>	lyzed
Acenaphthene	< 322	ug/Kg			12/21/202	2 15:46
Acenaphthylene	< 322	ug/Kg			12/21/202	2 15:46
Anthracene	< 322	ug/Kg			12/21/202	2 15:46
Benzo (a) anthracene	< 322	ug/Kg			12/21/202	2 15:46
Benzo (a) pyrene	< 322	ug/Kg			12/21/202	2 15:46
Benzo (b) fluoranthene	< 322	ug/Kg			12/21/202	2 15:46
Benzo (g,h,i) perylene	< 322	ug/Kg			12/21/202	2 15:46
Benzo (k) fluoranthene	< 322	ug/Kg			12/21/202	2 15:46
Chrysene	< 322	ug/Kg			12/21/202	2 15:46
Dibenz (a,h) anthracene	< 322	ug/Kg			12/21/202	2 15:46
Fluoranthene	< 322	ug/Kg			12/21/202	2 15:46
Fluorene	< 322	ug/Kg			12/21/202	2 15:46
Indeno (1,2,3-cd) pyrene	< 322	ug/Kg			12/21/202	2 15:46
Naphthalene	< 322	ug/Kg			12/21/202	2 15:46
Phenanthrene	< 322	ug/Kg			12/21/202	2 15:46
Pyrene	< 322	ug/Kg			12/21/202	2 15:46
Surrogate	Percent	Recovery	<u>Limits</u>	<u>Outliers</u>	Date Ana	yzed
2-Fluorobiphenyl	5	4.6	39.6 - 84.4		12/21/2022	15:46
Nitrobenzene-d5	5	3.5	36.5 - 78.2		12/21/2022	15:46
Terphenyl-d14	5	8.4	42.3 - 103		12/21/2022	15:46

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 12/20/2022
Data File: B65686.D



**Client:** Lu Engineers, Inc.

Central Ave **Project Reference:** 

Sample Identifier: **GP-03** 

Lab Sample ID: 225970-08 **Date Sampled:** 12/13/2022 9:45

**Matrix: Date Received** 12/15/2022 Soil

# **Volatile Organics (Petroleum)**

<u>Analyte</u>	Result	<u>Units</u>		Qualifier	Date An	alyzed
1,2,4-Trimethylbenzene	8.39	ug/Kg			12/19/202	22 17:48
1,3,5-Trimethylbenzene	< 6.89	ug/Kg			12/19/202	22 17:48
Benzene	< 6.89	ug/Kg			12/19/202	22 17:48
Ethylbenzene	< 6.89	ug/Kg			12/19/202	22 17:48
Isopropylbenzene	< 6.89	ug/Kg			12/19/202	22 17:48
m,p-Xylene	7.21	ug/Kg			12/19/202	22 17:48
Methyl tert-butyl Ether	< 6.89	ug/Kg			12/19/202	22 17:48
Naphthalene	< 17.2	ug/Kg			12/19/202	22 17:48
n-Butylbenzene	< 6.89	ug/Kg			12/19/202	22 17:48
n-Propylbenzene	< 6.89	ug/Kg			12/19/202	22 17:48
o-Xylene	< 6.89	ug/Kg			12/19/202	22 17:48
p-Isopropyltoluene	< 6.89	ug/Kg			12/19/202	22 17:48
sec-Butylbenzene	< 6.89	ug/Kg			12/19/202	22 17:48
tert-Butylbenzene	< 6.89	ug/Kg			12/19/202	22 17:48
Toluene	< 6.89	ug/Kg			12/19/202	22 17:48
Surrogate	Perc	ent Recovery	<b>Limits</b>	<u>Outliers</u>	Date Ana	alyzed
1,2-Dichloroethane-d4		102	74.7 - 140		12/19/2022	17:48
4-Bromofluorobenzene		93.3	68 - 130		12/19/2022	17:48

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date An	alyzed
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

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: <u>Lu Engineers, Inc.</u>

**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 7471BPreparation Date:12/19/2022Data File:Hg221219B

## RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<b>Qualifier</b>	<b>Date Analyzed</b>
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 12/20/2022

**Preparation Date:** 12/20/2022 **Subcontractor ELAP ID:** 10709

#### **PCBs**

<u>Analyte</u>	Result	<u>Units</u>	Qualifier Date	Analyzed
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



Client: <u>Lu Engineers, Inc.</u>

**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

SurrogatePercent RecoveryLimitsOutliersDate AnalyzedTetrachloro-m-xylene78.612.7 - 10112/21/202223:29

Method Reference(s):

EPA 8082A

EPA 3546

**Preparation Date:** 12/21/2022

## **Semi-Volatile Organics (PAHs)**

Analyte	<u>Result</u>	<u>Units</u>		<b>Qualifier</b>	<b>Date Anal</b>	<u>yzed</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
Surrogate	Perc	ent Recovery	<b>Limits</b>	<b>Outliers</b>	<b>Date Analy</b>	zed
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



Client: <u>Lu Engineers, Inc.</u>

**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)**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>		<b>Qualifier</b>	<b>Date Analyzed</b>
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	Percen	nt Recovery	<u>Limits</u>	<u>Outliers</u>	<b>Date Analyzed</b>
1.2-Dichloroethane-d4		107	74.7 - 140		12/19/2022 18:07

<u>Surrogate</u>	Percent Recovery	<u>Limits</u>	<u>Outliers</u>	Date An	alyzed
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.

Central Ave **Project Reference:** 

Sample Identifier: **GP-06** 

Date Sampled: 12/13/2022 12:00 Lab Sample ID: 225970-10

**Matrix:** Soil **Date Received** 12/15/2022

## **Mercury**

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	Qualifier	<b>Date Analyzed</b>
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>	<b>Qualifier</b>	<b>Date Analyzed</b>
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

**Preparation Date:** 

EPA 3050B 12/20/2022 **Subcontractor ELAP ID:** 10709

# **PCBs**

Analyte	Result	<u>Units</u>	Qualifier	Date Analyzed
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



Client: Lu Engineers, Inc.

Central Ave **Project Reference:** 

Sample Identifier: **GP-06** 

Date Sampled: 12/13/2022 12:00 Lab Sample ID: 225970-10

**Matrix:** Soil **Date Received** 12/15/2022

**Surrogate Percent Recovery** Limits **Outliers Date Analyzed** 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>		Qualifier	Date Ana	lyzed
Acenaphthene	< 308	ug/Kg			12/21/2022	2 16:43
Acenaphthylene	< 308	ug/Kg			12/21/2022	2 16:43
Anthracene	< 308	ug/Kg			12/21/2022	2 16:43
Benzo (a) anthracene	< 308	ug/Kg			12/21/2022	2 16:43
Benzo (a) pyrene	< 308	ug/Kg			12/21/2022	2 16:43
Benzo (b) fluoranthene	< 308	ug/Kg			12/21/2022	2 16:43
Benzo (g,h,i) perylene	< 308	ug/Kg			12/21/2022	2 16:43
Benzo (k) fluoranthene	< 308	ug/Kg			12/21/2022	2 16:43
Chrysene	< 308	ug/Kg			12/21/2022	2 16:43
Dibenz (a,h) anthracene	< 308	ug/Kg			12/21/2022	2 16:43
Fluoranthene	< 308	ug/Kg			12/21/2022	2 16:43
Fluorene	< 308	ug/Kg			12/21/2022	2 16:43
Indeno (1,2,3-cd) pyrene	< 308	ug/Kg			12/21/2022	2 16:43
Naphthalene	< 308	ug/Kg			12/21/2022	2 16:43
Phenanthrene	< 308	ug/Kg			12/21/2022	2 16:43
Pyrene	< 308	ug/Kg			12/21/2022	2 16:43
Surrogate	Percer	ıt Recovery	<u>Limits</u>	<b>Outliers</b>	Date Ana	<u>yzed</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
Chrysene Dibenz (a,h) anthracene Fluoranthene Fluorene Indeno (1,2,3-cd) pyrene Naphthalene Phenanthrene Pyrene  Surrogate 2-Fluorobiphenyl Nitrobenzene-d5	< 308 < 308 < 308 < 308 < 308 < 308 < 308 < 308 < 308 < Percer	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	39.6 - 84.4 36.5 - 78.2	Outliers	12/21/2022 12/21/2022 12/21/2022 12/21/2022 12/21/2022 12/21/2022 12/21/2022 Date Anal 12/21/2022 12/21/2022	2 16:43 2 16:43 2 16:43 2 16:43 2 16:43 2 16:43 2 16:43 4yzed 16:43 16:43

Method Reference(s): EPA 8270D EPA 3546 **Preparation Date:** 12/20/2022

Data File: B65688.D



Client: <u>Lu Engineers, Inc.</u>

**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	<u>Result</u>	<u>Units</u>		Qualifier	Date Ana	<u>lyzed</u>
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
<u>Surrogate</u>	Perce	ent Recovery	<u>Limits</u>	<u>Outliers</u>	<b>Date Analy</b>	yzed
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: <u>Lu Engineers, Inc.</u>

**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** 

Analyte Result Units Qualifier Date Analyzed

Mercury < 0.00798 mg/Kg 12/19/2022 17:03

Method Reference(s):EPA 7471BPreparation Date:12/19/2022Data File:Hg221219B

RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<b>Date Analyzed</b>
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** 

Analyte	Result	Units	Qualifier	Date Analyzed
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



Client: <u>Lu Engineers, Inc.</u>

**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

SurrogatePercent RecoveryLimitsOutliersDate AnalyzedTetrachloro-m-xylene63.212.7 - 10112/22/202200:15

Method Reference(s):

EPA 8082A

EPA 3546

Preparation Date: 12/21/2022

## Semi-Volatile Organics (PAHs)

Analyte	<u>Result</u>	<u>Units</u>		<b>Qualifier</b>	Date Ana	lyzed
Acenaphthene	< 313	ug/Kg			12/21/202	2 17:12
Acenaphthylene	< 313	ug/Kg			12/21/202	2 17:12
Anthracene	< 313	ug/Kg			12/21/202	2 17:12
Benzo (a) anthracene	< 313	ug/Kg			12/21/202	2 17:12
Benzo (a) pyrene	< 313	ug/Kg			12/21/202	2 17:12
Benzo (b) fluoranthene	< 313	ug/Kg			12/21/202	2 17:12
Benzo (g,h,i) perylene	< 313	ug/Kg			12/21/202	2 17:12
Benzo (k) fluoranthene	< 313	ug/Kg			12/21/202	2 17:12
Chrysene	< 313	ug/Kg			12/21/202	2 17:12
Dibenz (a,h) anthracene	< 313	ug/Kg			12/21/202	2 17:12
Fluoranthene	< 313	ug/Kg			12/21/202	2 17:12
Fluorene	< 313	ug/Kg			12/21/202	2 17:12
Indeno (1,2,3-cd) pyrene	< 313	ug/Kg			12/21/202	2 17:12
Naphthalene	< 313	ug/Kg			12/21/202	2 17:12
Phenanthrene	< 313	ug/Kg			12/21/202	2 17:12
Pyrene	< 313	ug/Kg			12/21/202	2 17:12
Surrogate	Perce	ent Recovery	<u>Limits</u>	<u>Outliers</u>	Date Ana	yzed
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



Client: <u>Lu Engineers, Inc.</u>

**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)**

<u>Analyte</u>	Result	<u>Units</u>		<b>Qualifier</b>	Date An	alyzed
1,2,4-Trimethylbenzene	< 10.8	ug/Kg			12/19/202	22 18:46
1,3,5-Trimethylbenzene	< 10.8	ug/Kg			12/19/202	22 18:46
Benzene	< 10.8	ug/Kg			12/19/20	22 18:46
Ethylbenzene	< 10.8	ug/Kg			12/19/20	22 18:46
Isopropylbenzene	< 10.8	ug/Kg			12/19/20	22 18:46
m,p-Xylene	< 10.8	ug/Kg			12/19/20	22 18:46
Methyl tert-butyl Ether	< 10.8	ug/Kg			12/19/20	22 18:46
Naphthalene	< 27.0	ug/Kg			12/19/20	22 18:46
n-Butylbenzene	< 10.8	ug/Kg			12/19/20	22 18:46
n-Propylbenzene	< 10.8	ug/Kg			12/19/20	22 18:46
o-Xylene	< 10.8	ug/Kg			12/19/20	22 18:46
p-Isopropyltoluene	< 10.8	ug/Kg			12/19/202	22 18:46
sec-Butylbenzene	< 10.8	ug/Kg			12/19/20	22 18:46
tert-Butylbenzene	< 10.8	ug/Kg			12/19/20	22 18:46
Toluene	< 10.8	ug/Kg			12/19/20	22 18:46
<u>Surrogate</u>	<u>Perce</u>	nt Recovery	<u>Limits</u>	<b>Outliers</b>	Date An	alyzed
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.

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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.
- "I" = 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.

# 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, tern 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 wi 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 reperform 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.

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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.

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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.

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Law.

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



# CHAIN OF CUSTODY

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See additional page for sample conditions,

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> Category B Category A

> > NYSDEC EDD Basic EDD

olease indicale package needed:

Other EDD

Receiv

Date/Tim

Date/Time

10.51

Total Cost:

Other EDD

By signing this form, client agree

res to Paradigm Terms and Conditions (reverse).

Rush 3 da

Batch QC

None Required

None Required

12/13/22 Date/Time

Standard 5 day





# Chain of Custody Supplement

Lu brigners	Completed by:	25
225976	Date:	12/15/22
<b>Sample Condi</b> Per NELAC/ELAF	tion Requirements 210/241/242/243/244	
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179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM

ADDRESS: COMPANY:

REPORT TO:
Paradigm Environmental

ADDRESS: COMPANY:

Same

INVOICE TO:

ELAP ID:

	CITY:	STATE:	ZIP: CITY:	STATE:	ZIP: TURNAROUND TIME: (WORKING DAYS)	KING DAYS)
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CLIENT PROJEC

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY 221221023 ADIRONDACK: ELAPID: 1

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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.

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



Client: <u>Lu Engineers, Inc.</u>

**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)

 Analyte
 Result
 Units
 Regulatory Limit Qualifier
 Date Analyzed

 Lead
 < 0.500</td>
 mg/L
 5
 1/5/2023 08:53

Method Reference(s):

EPA 6010C

EPA 1311 / 3005A

Preparation Date: Data File: 1/4/2023 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.
- "I" = 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.
- " $\hat{A}$ " = 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.

# 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 wi 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 reperform 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.

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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

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Assignment.

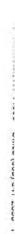
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Law.

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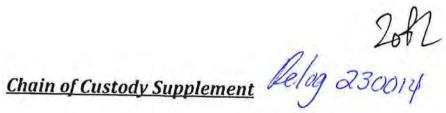
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Client:	225970	Completed by:	25
Lab Project ID:		Date:	12/15/22
	<b>Sample Condi</b> Per NELAC/ELAF	ition Requirements 2210/241/242/243/244	
Condition	NELAC compliance with the samp Yes	le condition requirements upon No	receipt N/A
Container Type  Comments		5035	
Transferred to method- compliant container			
Headspace (<1 mL) Comments	-X WEL		
Preservation  Comments			
Chlorine Absent <0.10 ppm per test strip)  Comments			
folding Time  Comments	<b>\( \)</b>		
emperature  Comments			X Mid
ompliant Sample Quantity/Type  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 (NSYDEC). 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:

Tank ID & Dimensions	Residual Tank Contents	Approximate Residual Content Volume	Observations
<b>UST-01</b> 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
<b>UST-07</b> 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 15<sup>th</sup>, 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

2

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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)

Division of Materials Management

	NOTIFICATION OF FILL MA	ATERIAL REUSE			
OFFICIAL USE ONLY DATE RECEIVED GENERATOR NUMBER	following cases:  • At least five days in advance of trangenerated in, imported to, or relocat 10 cubic yards.	esfers of general fill, ed within the City of	restricted-use i	fill and linamounts g	nited-use fill greater than
DESTINATION NUMBER	<ul> <li>At least five days in advance of deligreater than 10 cubic yards anywher</li> </ul>	very of restricted-us e in the State of Nev	e fill and limite  V York.	ed-use fill	in amounts
STAFF INITIALS	<ul> <li>Notification to the Department is not requ</li> <li>6 NYCRR Part 361-5; however, the facil</li> <li>part of its waste control plan.</li> </ul>	ired when the destin lity may request info	ation is a facilit rmation require	y authorized by this	ed under form as
1. Generati	ng Site Location and Contac	ot			
Project Name:	COR STORM & SANITARY SEWE	R UPGRADE 20	23		
Location of Generating	945 MOUNT READ BLVD.		ROCHESTE	ΞR	
Site:	Street Address MONROE		City/1	Town	
1	County	14415	Zip C	Code	
Contact:	FORBES	JANE			M
Office Phone:	(585) <u>428-7892</u> Mob	First oile Phone:	585 ) 314-1		M.I.
E-mail	Jane.Forbes@CityofRochester.Gov	<b>J</b>			
Company Name:	CITY OF ROCHESTER - DEQ	4			
Company Address:	30 CHURCH STREET ROOM 300E	3			
	Street Address ROCHESTER	NEW YOR	K 146	614	
	City	State	Zip		
2. Fill Mate	rial Generated at Remediation	on Sites			5-34 775-4
administe	material generated from a site being reme ered by the Department or EPA?			□Yes	☑ No
reuse this	question 2a, do you have approval from the material at the proposed destination? uestion 2b, contact the Department prior t			□Yes	□No

the destination site.

# NOTIFICATION OF FILL MATERIAL REUSE

3. (	Generat	ing Site Info	rmation			
а	. Overall o	uantity of fill mate	rial this project will ge	enerate	500	Cubic yards
b	. Indicate	fill material classif	ications found on the	site:		
		☐ General Fill	☐ Limited use fill	☑R	estricted use fill	☐ Other
С	. Quantity	of fill material cov	ered under this notific	ation	500	_ Cubic yards
d			ications proposed to b			
e.		☐ General Fill	r this project been sub			] Other ☐ Yes ☑ No
0.	Tiave out	er nouncutions to	If yes, indicate des			
f.	Will add:	tional notifications	s be sent in the future?		gion(s).	☐ Yes ☑ No
1.					04/02/2022	
g	Estimate	d start date and e	nd date of overall proje	ect:	04/03/2023 (Start Pata)	07/14/2023 (End Date)
					(Start Date)	(Life Date)
h		d start and end da	te of fill transfer for re	use	05/01/2023	05/31/2023
	under til	is nouncation.			(Start Date)	(End Date)
Desc Mate	ribe Fill rial					
			of the fill material, including eag, etc.). If more space is need			ne of soil, rock, concrete,
5. (	Qualified	d Environme	ntal Profession	al		
Cont	act:	FORBES			JANE	
		Last			First	M.I.
Offic	e Phone:	(585) 428-7	/892	Mobile Pho	one: (585)	314-1719
E-ma	iil:	Jane.Forbes(	@CityofRochester.G	OV		
Com Name	pany e:	CITY OF RO	CHESTER - DEQ			
Com	pany	30 CHURCH	STREETROOM 300	DB .		
Addr	ess:	Street Address ROCHESTER	R, NEW YORK 1461	4		
		City			State Zip	

# 6. Destination Site Location and Contact

Project	Name:	536 CENTRAL AVENUE - TANK CLO	DSURE			
Locatio		536 CENTRAL AVENUE		ROCH	ESTER	
Destina Site:	ation	Street Address MONROE		14605	City/Town	
Contac	t:	FORBES	JAN	IE	Zip Code	М
Phone:		(585 ) 428-7892 Mobile Pl	First hone:	(585)	314-1719	M.I.
E-mail:		Jane.Forbes@CityofRochester.Gov				
Compa Name:	ny	CITY OF ROCHESTER - DEQ				
Compa Addres		30 CHURCH STREET ROOM 300B				
Addres	s.	Street Address ROCHESTER	NEW YO	DRK	14614	
		City	State		Zip	
		ion Site Information	n		Cubic Yard	de .
		of fill material required for this project? $\frac{500}{100}$ of fill material to be used (check all that apply):			Cubic Tare	15
c.		al Fill	ermit or othe			□No
d.	Are addi	tional fill material notifications to be submitted	for this proje	ect?	☐ Yes	☑No
e.	Describe	the area(s) on the site where this fill material is	s to be used:			
	STORA	ATERIAL WILL BE USED TO PARTIALLY AGE TANK EXCAVATION. FUTURE DEVI E 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:	Howe	4/14/23	
		Date	
License Information:	PG # 2224	NC	
	Number	State	
Profession:	☐ Engineer ☐ Geologist	☐ Other (see 6 NYCRR 360.2(b)(213))	
	tualified Environmental Professiona e, the QEP's basis for credential mu	l identified in Item 5 above is not a Profession st be attached to this form.	(Engineer or Geologist seal above) nal Engineer or Geologist licensed
		I Office of the Department in which	the destination is located (se
ittp://www.dec.r	ny.gov/about/558.html).		
Purcuant to 6 M	CPP Subdivision 260 12(a) all r	otifications must be made on forms and i	n a manner accentable to the
Department. Bef	ore submitting this notification, p	ouncations must be made on forms and in dease ensure this form is complete and al iment as recommended in the checklist be	I supporting documentation
☑ Completed	Form. All fields of the application a	re complete, including the certification.	
		s compared with the following, for the respec	
		dentified as follows (see also 6 NYCRR Part	
	eneral Fill: protection of groundwate	r and residential soil cleanup objectives foun-	d in 6 NYCRR Part 375,
• Re	estricted-Use Fill: In addition to gene	eral fill requirements, benzo (a) pyrene equiva	
	nited-Use Fill: In addition to restrict NYCRR Part 375, Section 375-6.8.	ed use requirements, commercial soil cleanu	o objectives for metals found in
sample IDs,	depths and locations on the top; as	. Summary tables are attached that show stand detection limits are indicated for those con	stituents that are listed as 'non-
	e summary table should list all anal as part of this notification.	rtes. All data for the generating site should be	e provided, even if not to be

Soil Sample Analytical Results

Soil Sample Analytical Results						Sample ID:	CVIV	F-01
Detected Parameters <sup>1</sup> :						Sample Type:	Grab	Composite
Detected Furumeters .						Date:	4/4/	2023
EPA 8260 - VOCs			NYSDEC Par	t 375 SCOs <sup>2</sup>			Result Q	Posult /
2174 0200 1003	Unrestricted	Residential	Restricted Res.	Commerical	Industrial	Prot. of GW	Result Q	Result
1,1,1-Trichloroethane	0.68	100	100	500	1,000	0.68	< 0.00811	NA
1,1,2,2-Tetrachloroethane		1	= -		-		< 0.00811	NA
1,1,2-Trichloroethane		1	-	+			< 0.00811	NA
1,1-Dichloroethane	0.27	19	26	240	480	0.27	< 0.00811	NA
1,1-Dichloroethene	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					-	144	< 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 NA
4-Methyl-2-pentanone	- (a)			-	-	-	< 0.0203	NA
Ácetone	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	4						< 0.0203	NA NA
Bromodichloromethane						-	< 0.00811	NA NA
Bromoform	-				-			
Bromomethane			1					NA
Carbon disulfide			-			**.		NA
Carbon Tetrachloride	0.76	1.4	2.4			0.76	< 0.00811	NA
Chlorobenzene	1.1	100		22	44	0.76	< 0.00811	NA
Chloroethane	1.1		100	500	1,000	1.1	< 0.00811	NA
Chloroform							< 0.00811	NA
	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		44	***		-		< 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	/ / I		-	-	< 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						Sample ID: Sample Type:	Grab	F-01	omposite
Detected Parameters <sup>1</sup> :						Date:		2023	
TO A 0270 EVOC-			Result Q		Result				
PA 8270-SVOCs	Unrestricted	Residential	Rest. Residential	Commerical	Industrial	Prot. of GW	Contract of		10.111
,1-Biphenyl		-	-	140	-	**	NA	<	0.316
,2,4,5-Tetrachlorobenzene						++	NA NA	<	0.316
,2,4-Trichlorobenzene		-	**		-	-	NA NA	<	0.316
1,2-Dichlorobenzene					-	-	NA .	<	0.316
,3-Dichlorobenzene	-	-		- u			NA	<	0.316
2,2-Oxybis (1-chloropropane)						-	NA	<	0.316
2,3,4,6-Tetrachlorophenol		- 2	-			-	NA	<	0.316
2,4,5-Trichlorophenol		**			- 4		NA	<	0.316
2,4,6-Trichlorophenol							NA	<	0.316
,4-Dichlorophenol		-		-	- 46	-	NA	<	0.316
2,4-Dimethylphenol	H	-	- 4	145	ω.	-	NA	<	0.316
,4-Dinitrophenol			- 4		**	-	NA	<	1.27
2,4-Dinitrotoluene		0-1				-	NA	<	0.316
2,6-Dinitrotoluene			-			-	NA	<	0.316
2-Chloronaphthalene	- "		**	-	*	-	NA NA	<	0.316
2-Chlorophenol	-	-	-		22		NA NA	-	0.316
2-Methylnapthalene		-	**	-			NA NA	<	0.316
2-Methylphenol 2-Nitroaniline	-	-					NA NA	<	0.316
2-Nitroaniline 2-Nitrophenol	-	-				-	NA NA	<	0.316
3&4-Methylphenol	-		-	4		-	NA NA	<	0.316
3,3'-Dichlorobenzidine	-	- 4	-				NA	<	0.316
3-Nitroaniline	-	-	-			-	NA	<	0.316
1,6-Dinitro-2-methylphenol				**	44		NA	<	0.423
1-Bromophenyl phenyl ether	-		- 4	144	-	**	NA	<	0.316
4-Chloro-3-methylphenol	-					-	NA	<	0.316
4-Chloroaniline		-			**	And .	NA	<	0.316
4-Chlorophenyl phenyl ether		**	-		- 44		NA	<	0.316
4-Nitroaniline		**	-	**	-	**	NA	<	0.316
4-Nitrophenol			-	***	44.	- 44	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		400	100	500	1 000	1.000	NA	<	0.316
Anthracene	100	100	100	500	1,000	1,000	NA NA	<	0.316
Atrazine	*	11					NA NA	<	0.316
Benzaldehyde	1.0	1.0	1.0	5.6	11	1.0	NA NA	<	0.316
Benzo (a) anthracene 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	- 4						NA	<	0.316
Bis (2-chloroethyl) ether				342		-	NA	<	0.316
Bis (2-ethylhexyl) phthalate	**	4	**	**			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		-		4	**		NA	<	0.316
Diethyl phthalate						-	NA NA	<	0.316
Dimethyl phthalate	-		**	**			NA NA	<	0.316
Di-n-butyl phthalate				**		-	NA NA	<	0.316
Di-n-octylphthalate Fluoranthene	100	100	100	500	1,000	1,000	NA NA	<	0.316
Fluoranthene Fluorene	30	100	100	500	1,000	386	NA NA	<	0.316
Hexachlorobenzene					1,000	300	NA	<	0.316
Hexachlorobutadiene	-	-		-		-	NA NA	<	0.316
Hexachlorocyclopentadiene	-	-		-			NA 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	77						NA	<	0.316
Naphthalene	12	100	100	500	1,000	12	NA	<	0.316
Nitrobenzene	-			***			NA	<	0.316
N-Nitroso-di-n-propylamine	40					-	NA	<	0.316
N-Nitrosodiphenylamine					E HI	77	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		**	-	44		**	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 <sup>1</sup> :						Sample ID:	CVI	MF-0:	l
	1	Sample Depth:							Composite
						Date:	4/4	/202	3
EPA 6010 - Metals			Part 37!	5 SCOs <sup>2</sup>			Daniel O	T	Dle (
EPA 6010 - Wetais	Unrestricted	Residential	Restricted Res.	Commerical	Industrial	Prot. of GW	Result Q	1	Result (
Arsenic	13	16	16	16	16	16	NA		3.68 D
Barium	350	350	400	400	10,000	820	NA		64.8 N
Cadmium	2.5	2.5	4.3	9.3	60	7.5	NA	<	0.287 N
Chromium	30	36	180	1,500	6,800		NA		13.0 N
Lead	63	400	400	1,000	3,900	450	NA		10.3 N
Selenium	3.9	36	180	1,500	6,800	4.0	NA	<	1.15 N
Silver	2.0	36	180	1,500	6,800	8.3	NA	<	0.575 N
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	1	Result (
PCB-1016	0.1	1.0	1.0	1.0	25	3.2	NA	7	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	-	Result (
4,4-DDD	0.0033	2.6	13	92	180	14	NA 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	<	0.0021
cis-Chlordane		0.51	4.2			2.5	NA	<	0.0021
delta-BHC	0.04	100	100	500	1,000	0.25	NA NA	<	0.0021
Dieldrin	0.005	0.039	0.2	1.4	2.8	0.23	NA NA	<	0.0021
Endosulfan I	2.4	4.8	24	200	920	102	NA NA	+-	0.0041
Endosulfan II	2.4	4.8	24	200	920	102		<	2715.75.7
Endosulfan Sulfate	2.4	4.8	24	200			NA	<	0.0041
Endrin	0.014	2.2	11		920	102	NA	<	0.0041
Endrin Aldehyde	0.014			89	410	0.06	NA	<	0.0041
	-				-		NA	<	0.0041
Endrin Ketone		0.20	12				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		-	-			(44	NA	<	0.0025
Methoxychlor			-			-	NA	<	0.021
Toxaphene	*-		-	**	100		NA	<	0.21
trans-Chlordane		120					NA	<	0.0021
EPA 8321 - Herbicides								_	
2,4,5-T			**				NA	<	
2,4,5-TP (Silvex)	3.8	58	100	500	1,000	3.8	NA	<	
2,4-D							NA	<	1.50 N
EPA 1030-Ignitability									
Temperature (°C)							NA	N	ot Ignitable
Corrosivity	T								1000
pH	14						NA	7.8	36 @ 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 Differencelimit.
- 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





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.

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

Emily 4

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



Client:

Lu Engineers, Inc.

**Project Reference:** 

CVMF-4265

Sample Identifier:

CVMF-01 Grab

Lab Sample ID:

Matrix:

231289-01

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	3.000	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



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



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

Surrogate	Percent Recovery	Limits	<b>Outliers</b>	Date Analyzed	
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

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	<b>Date Analyzed</b>
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	М	4/10/2023

Method Reference(s): Subcontractor ELAP ID: EPA 8321B 10709

### **Ignitability**

Analyte	Result	<u>Units</u>	Qualifier	<b>Date Analyzed</b>
Ignitability	No Burn	mm / sec		4/10/2023

Method Reference(s):

EPA 1030

### Mercury

<u>Analyte</u>	Result	<u>Units</u>	Qualifier	<b>Date Analyzed</b>
Mercury	0.0430	mg/Kg		4/6/2023

Method Reference(s):

EPA 7471B

Subcontractor ELAP ID:

10709

### RCRA Metals (ICP)

Analyte	Result	<u>Units</u>	Qualifier	<b>Date Analyzed</b>
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	М	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



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	<u>Units</u>		Qualifier	Date An	alyzed
PCB-1016	< 0.184	mg/Kg			4/6/202	23 17:37
PCB-1221	< 0.184	mg/Kg			4/6/202	23 17:37
PCB-1232	< 0.184	mg/Kg			4/6/202	23 17:37
PCB-1242	< 0.184	mg/Kg			4/6/202	23 17:37
PCB-1248	< 0.184	mg/Kg			4/6/202	23 17:37
PCB-1254	< 0.184	mg/Kg			4/6/202	23 17:37
PCB-1260	< 0.184	mg/Kg			4/6/202	23 17:37
PCB-1262	< 0.184	mg/Kg			4/6/203	23 17:37
PCB-1268	< 0.184	mg/Kg			4/6/202	23 17:37
Surrogate	Percer	nt Recovery	<b>Limits</b>	<b>Outliers</b>	Date An	alyzed
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

Qualifier **Analyte** Result Units **Date Analyzed** 7.86 @ 22.6 C S.U. 4/7/2023 12:44 рН

Method Reference(s):

EPA 9045D

### Reactive Cyanide

Result **Units** Qualifier **Date Analyzed Analyte** 4/10/2023 mg/Kg Reactivity, Cyanide <1.0

Method Reference(s):

EPA 7.3.3.2

10709 Subcontractor ELAP ID:

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

Date Received 4/4/2023

11:40

Matrix:

Soil

Reactive Sulfide

**Analyte** 

Result

**Units** 

**Qualifier** 

**Date Analyzed** 

Reactivity, Sulfide

<10

mg/Kg

4/11/2023

Method Reference(s): Subcontractor ELAP ID: EPA 7.3.4.2

10709

 ${\it ELAP\ does\ not\ offer\ this\ test\ for\ approval\ as\ part\ of\ their\ laboratory\ certification\ program.}$ 

 $This \, sample \, has \, been \, reported \, as \, received.$ 

### Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	<u>Units</u>	Qualifier	<b>Date Analyzed</b>
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-Methylnapthalene	< 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



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



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

Date Received 4/4/2023

Matrix:

Soil

Surrogate	<b>Percent Recovery</b>	<b>Limits</b>	<b>Outliers</b>	Date Ar	alyzed
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: Data File: 4/7/2023

B663367.D

### **Chlorinated Pesticides**

Analyte	Result	<b>Units</b>	Qualifier	<b>Date Analyzed</b>
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



**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 4/10/2023 ug/Kg

Method Reference(s): Subcontractor ELAP ID: EPA 8081B 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.



### **Method Blank Report**

Client:

Lu Engineers, Inc.

**Project Reference:** 

CVMF-4265

Lab Project ID:

231289

Matrix:

Soil

### RCRA Metals (ICP)

Analyte	Result	<u>Units</u>	Qualifier	Date Analy	zed
America	<0.490	mg/Kg		4/11/2023	09:18
Arsenic 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

Blk 1 QC Number:



# QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Lu Engineers, Inc.

Project Reference: CVMF-4265

Lab Project ID: 231289

Soil

Matrix:

### RCRA Metals (ICP)

QC Number: 1	Preparation Date:         4/6/2023           Data File:         230411A	Method Reference(s): EPA 6010C	Silver 12.5 12.4 mg/Kg 12.1 12.0 9	Selenium 125 124 mg/Kg 105 104 8	Lead 125 124 mg/Kg 118 117 9	Chromium 125 124 mg/Kg 118 117 9	Cadmium 50.0 49.5 mg/Kg 50.4 49.9 1	125 124 mg/Kg 125 124	125 124 mg/Kg 115 114	Analyte Added Added Units Result Result Rec	LCS LCSD Spike LCS LCSD LC
QC Number:	Preparation Date: Data File:	Method Reference					<b>'</b> B			A	
		(s):	2.5	125	125	125	0.0	125	125		S
1	4/6/2 23041	EPA 6	12.4	124	124	124	49.5	124	124	Added	LCSD
	023 1A	010C	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Units	Spike
			12.1	105	118	118	50.4	125	115	Result	LCS
			12.0	104	117	117	49.9	124	114	Result	LCSD
			96.9	83.8	94.6	94.6	101	99.9	92.0	Recovery	LCS %
			97.0	84.2	94.6	94.8	101	100	92.1	Recovery	LCSD %
			80 - 120	80 - 120	80 - 120	80 - 120	80 - 120	80 - 120	80 - 120	Limits	% Rec
										Outliers	2
										Outliers	LUSD
			0.0825	0.429	0.00	0.169	0.0993	0.0400	0.130	Outliers Outliers Difference	Relative %
			20	20	20	20	20	20	20	Limit	KPD
										Outliers	RED
			4/11/2023	4/11/2023	4/11/2023	4/11/2023	4/11/2023	4/11/2023	4/11/2023	Analyzed	Раце

compliance with the sample condition requirements upon receipt. 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

QC Batch ID:

QC230406soil



## QC Report for Sample Spike and Sample Duplicate

Client: Lu Engineers, Inc.

Project Reference: CVMF-4265

231289-02

CVMF-01 Composite

Matrix:

Sample Identifier: Lab Sample ID:

Date Sampled:

4/4/2023

Date Received: 4/4/2023

Arsenic Silver Lead Selenium Chromium Barium Analyte Cadmium RCRA Metals (ICP) Method Reference(s): < 0.575 Results < 0.287 Sample < 1.15 64.8 10.3 13.0 3.68 **EPA 3050B EPA 6010C** Result mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg Units Added Spike 59.1 148 148 14.8 148 148 148 Result Spike 11.2 88.9 41.8 110 113 105 160 Recovery Spike % 76.0 60.2 67.2 67.3 70.6 64.4 68.7 75 75 - 125 75 75 - 125 75 - 125 75 - 12575 - 125 Limits % Rec - 125 125 Outliers Spike Duplicate Result < 0.614 < 0.307 <1.23 13.0 55.9 12.3 Relative % Difference 0.350 14.8 17.5 25.5 NC NC Limit RPD 20 20 20 20 20 20 20 Outliers RPD 4/11/2023 4/11/2023 4/11/2023 4/11/2023 4/11/2023 4/11/2023 4/11/2023 Analyzed Date

ten times the spike added 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

QC Batch ID:

QC230406soil 230411A

**Preparation Date:** 

4/6/2023

with the sample condition requirements upon receipt. 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

Report Prepared Tuesday, April 11, 2023

Lab Project ID: 231289



### **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,

"I" = 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.

### 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 wi 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 reperform 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

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

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.

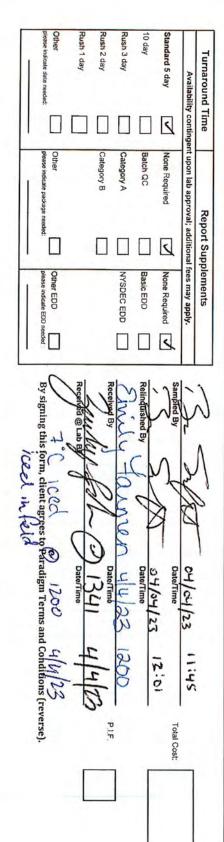
LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders 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.

## CHAIN OF CUSTODY

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### Chain of Custody Supplement

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Lab Project ID:	231289	Date:	1/4/20
		on Requirements 10/241/242/243/244	,
Condition	NELAC compliance with the sample Yes	condition requirements upon rece No	eipt N/A
Container Type	$\Rightarrow$	So3s	
Comments			
Transferred to method- compliant container		5035	
Headspace (<1 mL) Comments			
Preservation  Comments			
Comments	·		
Chlorine Absent (<0.10 ppm per test strip) Comments			
- Holding Time		,	
Comments _			
Temperature		7°C Ired in held	A AUG
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Comments			

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

## CHAIN OF CUSTODY

Paradigm Environmental

Same

TURNAROUND TIME: (WORKING DAYS)

INVOICE TO:

REPORT TO:

PHONE: CITY: ADDRESS:

FAX:

PHONE: CITY: ADDRESS: COMPANY:

STATE:

LAB PROJECT #:

CLIENT PROJECT

ELAP ID: 1

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Comments:

Temperature:

Received @ Lab By

Date/Time

Date/Time

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Received By

Holding Time:

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Date/Time

Total Cost

Client

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release or a value declaration by	as specify a limitation of the carrier's liability absent the shipper and the shipper does not release, the carrier's liability shall be limited to the extent C Item 172.	marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental	Subject to Section 7 of consignee without recou	the conditions, if this shipment is to be use on the consignor, the consignor	delivered to the shall sign the	COLLECT   \$  TOTAL CHARGES \$	
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		intended solely for filing	g or record.	10		Carrie	er No	-,-	7
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City		State	Zip Code	24 hr. Emergency C	Contact Tel. No.				
Route							Vehicle Number		
No. of Units & Container Type	НМ		BASIC DESCRIPTION Shipping Name, Hazard Class,	Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEI (Subj Corre	ect to	RATE	CHARGES (For Carrier Use Only)
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Permanent post-office	ce address o	of shipper.	Ø SOY INK.	STYLE F370-4	© 2012 LABEL ASTER® (8	800) 621-580	8 www.labe	elmaster.co	m

Page	of	- Nav	(Name of	carrier)	(SCAC)		Date _	1/21	1/200
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City		State	Zip Code	24 hr. Emergency Co	ntact Tel. No.				
Route							Vehicle Number		
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Permanent post-of	fice address	of shipper.	(Alreadawa)	STYLE F370-4	2012 LABEL MASTER ®	(800) 621-58	08 www.la	belmaster.	com

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**This Memorandum** 

Shipper No.

Carrier No.

2		£	1109580			Carri	er No	7	7
Page	of		(Name o	f carrier)	(SCAC)		Date _	1/21/	2112
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Street	66	atypul Ave	)	City		State		Zip Cod	de
City	- 1	State	Zip Code	24 hr. Emergency Co	ontact Tel. No.				
Route						-11	Vehicle Number		
No. of Units & Container Type	нм		BASIC DESCRIPTION Shipping Name, Hazard Class	, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	(Sub	GHT ect to ection)	RATE	CHARGES (For Carrie Use Only)
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17/2		Lonfe	1 1/10						
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				DATE					
Permanent post-offi	ce address of s	shipper.	SOY INK	STYLE F370-4 ©	2012 LABEL ASTER (80	00) 621-580	8 www.lab	elmaster.co	om

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This Memorandum

Shipper No. 254

Carrier No. \_\_\_\_\_

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Consignee			4	Street	CVMI				
Street	36	Central 1	he	City		State		Zip Cod	е
City		State	Zip Code	24 hr. Emergency Co	ontact Tel. No.				
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No. of Units & Container Type	нм		BASIC DESCRIPTION Shipping Name, Hazard Class	, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	(Sub	IGHT ject to ection)	RATE	CHARGES (For Carrier Use Only)
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must be so marked and pa- item 360, Bills of Lading, F the Contract Terms and Co	reight Bills and St	re safe transportation. See Section 2(e) of tatements of Charges and Section 1(a) of f such articles.	Signature	freight and all other lawful ch	(Signature of Consignor)	payment of	FREIGHT PRI except when b right is checke	ox at	k box if charges are to be collect
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No. of Units & Container Type	нм		BASIC DESCRIPTION Shipping Name, Hazard Class	, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	(Sub)	GHT ject to ection)	RATE	CHARGES (For Carrier Use Only)
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Permanent post-off	ice address of s	hipper.	SOYINK.	STYLE F370-4	© 2012 LABEL MASTER ® (80	00) 621-580	08 www.la	belmaster.c	om

Shipper No.

must be legibly filled in, in Ink indelible Pencil, or in Carbon, and retained by the agent

**This Shipping Order** 

This Mem	orandu	Bill of Lading, nor a copy	hat a Bill of Lading has been or duplicate, covering the pro			Shipper	No. 00	8
		intended solely for filing	or record.			Carrie	No	-
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No. of Units & Container Type	нм		BASIC DESCRIPTION Shipping Name, Hazard Class,	Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIG (Subject Correct	t to RATE	CHARGES (For Carrier Use Only)
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### 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?	What is the material? Am I required to sample it?			Where can I use it?						
Excavated or demolition material description	Sampling Required? <sup>a</sup>	Lab Results Meet These Criteria	Highway Rights- of-Way	Farm, Cropland	Farm, Other	Residential Development	Under Pavement <sup>d</sup>	Regulatory References		
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" <sup>b</sup>	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 <sup>c</sup>	No, except as pavement <sup>c</sup>	Yes	8		

<sup>&</sup>lt;sup>a</sup> Sampling and laboratory analysis according to 6 NYCRR 360.13(e).

### **REGULATORY REFERENCES**

- 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 8. 6 NYCRR 360.12(c)(3)(ix)
- 5. 6 NYCRR 363-2.1(h)
- 6. 6 NYCRR 363-2.1(i)
- 7. Feb.12, 2021 EDL, Subheading VI



Version 4/28/21

b "Recognizable, uncontaminated concrete and concrete products, asphalt pavement, rock, brick and soil"

<sup>&</sup>lt;sup>c</sup> A three- to six-inch layer of millings can be placed and compacted as a light-duty pavement over a prepared subgrade.

<sup>&</sup>lt;sup>d</sup> Materials allowed "under pavement" can be used in any land-use setting under pavement or foundation and above the seasonal high water table.

### 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

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Α	General Information	2
	Site Description/Unusual Features	
В	Site/Waste Characteristics	2
	Locations of Chemicals/Waste	3
C.	Hazard Evaluation	4
D	. Site Safety Work Plan	7
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	Anticipated Level of PPE:	7
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	Emergency Routes	. 10

### **Appendicies**

Appendix A – Heat and Cold Stress Exposure

Appendix B – Additional Potential Physical and Chemical Hazards

Appendix C – Equipment Checklist

A. Gene	ral Informatio	n				
Pro	ject Title:	536 Central A	ve		Project No.	4229-57
Pro	ject Manager:					
		F3C C				
Loc	ation:	536 Central Av				
		City of Roches	ster, iv	N T		
Pre	pared By:				Date Prepared:	
	. ,				Date Revised:	
Арр	proved By:				Date Approved:	
	e Safety Officer view:				Date Reviewed:	
The work a	ption/Unusual I area is located in closure of seven	the southwest				objective of the project is
Scope/Obi	ective of Work					
		project includes	unco	veri	ng. emptying, purging/ing	erting, removing, cleaning,
					USTs and proper handling	
•						o the Corrective Action Plan
for more d		, ,				
Proposed	Date of Field A	ctivities:				
Backgrou	nd Information:					
	[X] Com	plete	[	]	Preliminary (no data ava	ailable)
Overall C	hemical Hazard:					
	[ ] Serio	ous	[	]	Moderate	
	[X] Low		[	]	Unknown	
Overall P	hysical Hazard:					
	[ ] Serio	ous	[	]	Moderate	
	[X] Low		[	]	Unknown	
B. Site/	Waste Charact	eristics				
Waste T						
	iquid	[X]	Solid		[ X ] Sludge	[X] Gas/Vapor

Chara	cteristic(s):								
[X] Flammable/Ignitable			[X] Volatile	[X]	Corrosiv	/e [X]	Acutely Toxic Radioactive		
[X]	Explosive		[ ] Reactive	[ ]	[ ] Carcinogen				
[ ]	Other:								
Physic	cal Hazard(s):								
[X]	Overhead	[ ]	<b>Confined Space</b>		[ ]	Below Grade	[X]	Trip/Fall	
[X]	Puncture	[ ]	Burn		[X]	Cut	[ ]	Splash	
[X]	Noise	[X]	Other:	Underg	round uti	ilities			
	ns of Chemicals/ product and/or		thin the identified	USTs					
Estimate	ed Volume of Ch	nemicals/V	Vastes:						
Refer to	Table 1 of the C	AP.							
Site Curi	rently in Operat	ion:							
1 1 1 1	s [X]No	1	1 Not Applicable						

### C. Hazard Evaluation

PHYSIC	PHYSICAL HAZARD EVALUATION:								
TASK	HAZARD(S)	HAZARD PREVENTION							
	Contact with or inhalation of contaminants, potentially in high concentration in sampling media and/or fire and explosion  Back strain and muscle fatigue due to lifting	To minimize exposure to chemical contaminants, a thorough review of suspected contaminants should be completed and implementation of an adequate protection program.  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.							
All	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 repellant.							

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											
	Exposure Limits (TWA)			Dermal	Route(s)			FID/PID			
Compound	PEL	REL	TLV	Hazard (Y/N)	of Exposure	Acute Symptoms	Odor Threshold/Description	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		0.01	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/m³	0.05 mg/m³	0.05 mg/m³	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	Υ	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	Υ	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   100 p	100 ppm	n Y	Inh, Abs, Ing, Con		Colorless liquid, aromatic odor	0.5	8.44
7,10.00	100 μμπ		100 pp	·			(solid below 56 F		0.44

<sup>\* =</sup> 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:**

	Yes	<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 daylights 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	

<sup>\*</sup> 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

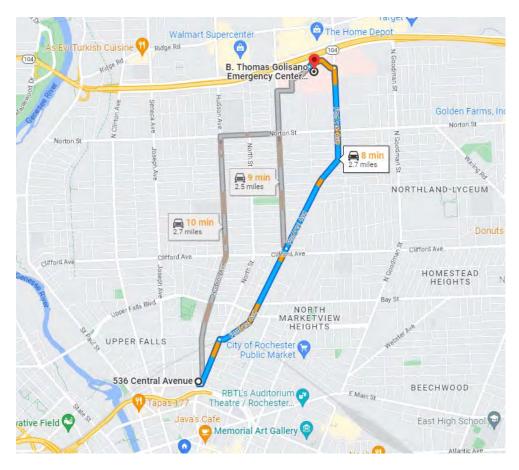
Local Resources:	
Ambulance:	911
Hospital Emergency Room:	Thomas B. Golisano Emergency Center  1425 Portland Ave, City of Rochester NY
Poison Control Center:	911
Police (include local, county sheriff, state):	911
Fire Department:	911
Airport:	N/A
Local Laboratory:	N/A
UPS/Federal Express:	N/A
Site Resources: Site Emergency Evaluati Alarm Method:	on Sound vehicle horn.
Water Supply Source:	Gallons of water will be available in vehicles.
Telephone Location, Nu	mber: None available
Cellular Phone, if Availal	ble: None available
Radio: TBD	
Other:	TBD

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**

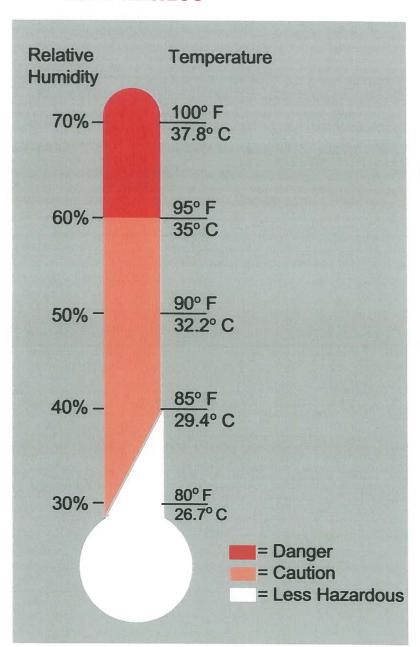
# **HEAT STRESS AND COLD EXPOSURE**

# 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 heatinduced 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.



U.S. Department of Labor Occupational Safety and Health Administration

OSHA 3154 1998

# **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).

# U.S. Department of Labor Occupational Safety and Health Administration

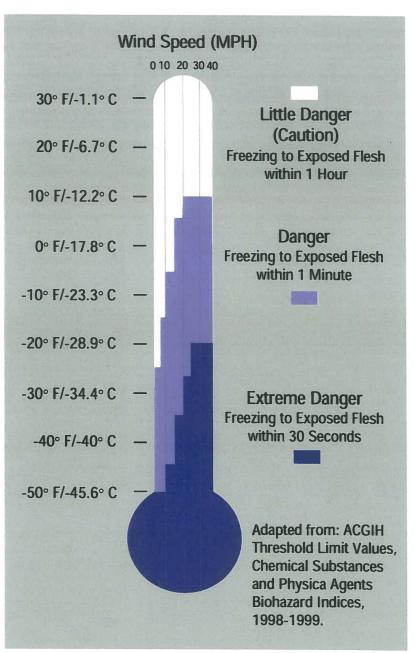
# THE COLD STRESS EQUATION

# **LOW TEMPERATURE + WIND SPEED + WETNESS** = INJURIES & ILLNESS

When the body is unable to warm itself. serious coldrelated 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. Coldrelated illnesses can slowly overcome a person who has been chilled by low temperatures, brisk winds, or wet

clothing.



OSHA 3156 1998

# **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

VDDITIONVI	DOTENITIAL	DHACIUVI	AND CHEMICAL	HAZADDC
AIJIJIJIJAI	PUTFINITAL	PHYSICAL	ANITUMENT	DA/ARDS

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:  Tyvex coveralls  Neoprene gloves
	Booties (latex) or over-boots.

# **APPENDIX C**

	PROTECTIV	VE 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		LEVEL D	
ULTRA-TWIN RESPIRATOR		HALF-FACE RESPIRATOR (available)	Х
POWER AIR PURIFYING RESPIRATOR		CARTRIDGES (Type GMC-H)(available)	Х
CARTRIDGES		5-MINUTE ESCAPE MASK (available)	
5-MINUTE ESCAPE MASK		PROTECTIVE COVERALL	
PROTECTIVE COVERALL		RAIN SUIT (available)	Х
RAIN SUIT	Х	NEOPRENE SAFETY BOOTS	
BUTYL APRON		BOOTIES (available)	
SURGICAL GLOVES		NITRILE	
GLOVES	Х	HARD HAT WITH FACE SHIELD (available)	
OUTER WORK GLOVES	Х	SAFETY GLASSES	Х
NEOPRENE SAFETY BOOTS		GLOVES	Х
HARD HAT WITH FACE SHIELD		WORK GLOVES (available)	Х
BOOTIES		SAFETY BOOTS	Х
HARD HAT	Х	BLAZE ORANGE VEST	
		TICK/CHIGGER GATORS	

INSTRUMENTATION	NO.	FIRST AID EQUIPMENT	NO.
OVA		FIRST AID KIT	Х
THERMAL DESORBER		OXYGEN ADMINISTRATOR	
O <sub>2</sub> /EXPLOSIMETER W/CAL.KIT (Drilling)		STRETCHER	
PHOTOVAC TIP		PORTABLE EYE WASH	
HNu (Probe 10.2)		BLOOD PRESSURE MONITOR	
MAGNETOMETER		FIRE EXTINGUISHER	Х
PIPE LOCATOR			
WEATHER STATION		DECON EQUIPMENT	
DRAEGER PUMP, TUBES		WASH TUBS	
BRUNTON COMPASS		BUCKETS	Х
MONITOX CYANIDE		SCRUB BRUSHES	Х
HEAT STRESS MONITOR		PRESSURIZED SPRAYER	
NOISE EQUIPMENT		DETERGENT (Type: Alconox) = TSP	Х
PERSONAL SAMPLING PUMPS		SOLVENT (HEXANE)	
MINI-RAM (Particulates) (Drilling)		PLASTIC SHEETING	
		TARPS AND POLES	
		TRASH BAGS	Х
RADIATION EQUIPMENT		TRASH CANS	
DOCUMENTATION FORMS		MASKING TAPE	
PORTABLE RATEMETER		DUCT TAPE	Х
SCALER/RATEMETER		PAPER TOWELS	Х
Nal 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			

SAMPLING EQUIPMENT	NO.	MISCELLANEOUS (cont.)	NO.
4-OZ BOTTLES	Х	BUNG WRENCH	
1 LITER AMBER BOTTLES		SOIL AUGER	
VOA BOTTLES		PICK	
SOIL SAMPLING (CORING) TOOL		SHOVEL	Х
SOIL VAPOR PROBE		CATALYTIC HEATER	
THIEVING RODS WITH BULBS		PROPANE GAS	
SPOONS		BANNER TAPE	Х
GENERAL TOOL KIT		SURVEYING METER STICK	
FILTER PAPER		CHAINING PINS AND RING	
PERSONAL SAMPLING PUMP SUPPLIES		TABLES	
4-OZ JARS	Х	WEATHER RADIO	
		BINOCULARS	
VEHICLE EQUIPMENT		MEGAPHONE	
TOOL KIT	Х	PORTABLE RADIOS (4)	
HYDRAULIC JACK		CELL PHONE	Х
LUG WRENCH		CAMERA	Х
TOW CHAIN		HEARING PROTECTION	Х
VAN CHECK OUT			
GAS	Х	SHIPPING EQUIPMENT	
OIL	Х	COOLERS	Х
ANTIFREEZE		PAINT CANS WITH LIDS, 7 CMIPS EACH	
BATTERY		VERMICULITE	
WINDSHIELD WASH	Х	SHIPPING LABELS	Х
TIRE PRESSURE		DOT LABELS: "DANGER", "UP";	
		"INSIDE CONTAINER COMPLIES";	
MISCELLANEOUS		"HAZARD GROUP"	
PITCHER PUMP		STRAPPING TAPE	
SURVEYOR'S TAPE		BOTTLE LABELS	Х
100 FIBERGLASS TAPE	Х	BAGGIES	Х
300 NYLON ROPE		CUSTODY SEALS	Х
NYLON STRING		CHAIN-OF-CUSTODY FORMS	Х
SURVEYING FLAGS		FEDERAL EXPRESS FORMS	Х
FILM		CLEAR PACKING TAPE	Х
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 <u>ground intrusive</u> 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 <u>non-intrusive</u> 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.

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- 1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m³) 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 mcg/m³ 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 mcg/m³ 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 mcg/m³ 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:
Date of Encountered Impact:

# Provide Information on $\underline{\textit{First}}$ Type or Location of Environmental Impact Encountered

Does the impact contain or consist of fill material?	
If yes, describe the fill material (e.g., C&D, wood, slag, ash, unknown, etc.):	
Does the impact consist of soil?	
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?	
If yes, describe the staining (colors, streaking, etc.):	
Describe Location of Impact (provide construction stations, closest parcel street ac existing permanent Site features, identify on scaled architectural or engineer draw	
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?	
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?	
If ves, was there an odor associated with the excavation water?	□ves/□No

<b>Date of Encountered Im</b>	pact:

# If Encountered, Provide Information of <u>Second</u> Type or Location of Environmental Impact

Does the impact contain or consist of fill material?	
If yes, describe the fill material (e.g., C&D, wood, slag, ash, unknown, etc.): _	
Does the impact consist of soil?	
Does the impact have an odor?	
If yes, describe the odor (petroleum, chemical, sweet, septic/sanitary, etc.):	
Was there evidence of stained soils or fill material?	
If yes, describe the staining (colors, streaking, etc.):	
Describe Location of Impact (provide construction stations, closest parcel street existing permanent Site features, identify on scaled architectural or engineer dra	
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?	
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?	
If yes, was there an odor associated with the excavation water?	□ves/□No

<b>Date of Encountered In</b>	npact:
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# If Encountered, Provide Information of <u>Third</u> Type or Location of Environmental Impact

Does the impact contain or consist of fill material?	
If yes, describe the fill material (e.g., C&D, wood, slag, ash, unknown, etc.):	
Does the impact consist of soil?	
Does the impact have an odor?	
If yes, describe the odor (petroleum, chemical, sweet, septic/sanitary, etc.):	
Was there evidence of stained soils or fill material?	
If yes, describe the staining (colors, streaking, etc.):	
Describe Location of Impact (provide construction stations, closest parcel street existing permanent Site features, identify on scaled architectural or engineer dr	
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?	
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?	
If yes, was there an odor associated with the excavation water?	□ves/□No

<b>Date of Encountered In</b>	npact:
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# If Encountered, Provide Information of <u>Fourth</u> Type or Location of Environmental Impact

Does the impact contain or consist of fill material?	
If yes, describe the fill material (e.g., C&D, wood, slag, ash, unknown, etc.):	
Does the impact consist of Soil?	
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?	
If yes, describe the staining (colors, streaking, etc.):	
Describe Location of Impact (provide construction stations, closest parcel street ac existing permanent Site features, identify on scaled architectural or engineer draw	
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?	
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?	
If ves, was there an odor associated with the excavation water?	□ves/□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 imp	pacted media?	
	Contractor	
	Name:	
	Phone #:	
	RPR and/or City OM, City Inspector	
	Name:	
	Phone #:	
	☐ City DEQ	
	Name:	
	Phone #:	
	NYSDEC (if deemed necessary)	
	Name:	
	Phone #:	