

## **Regulated Substances SOPs for State and Local Jurisdiction Roadways**

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**Purpose:** The purpose of this document is to provide guidance and policy for the City of Chicago Department of Transportation (CDOT) to standardize the process for consideration of removal and disposal of Regulated Substances on all City projects.

**Owner:** The document was prepared with input from the Departments of Assets, Information and Services (AIS), Fleet and Facility Management (2FM), and CDOT, and will be maintained by the CDOT Quality Assurance (QA) consultant for Regulated Substances (referred to herein as “CDOT QA” and/or “RS QA”).

**Effective Date:** August 8, 2025

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### **LIST OF ACRONYMS**

AIS	Department of Assets, Information, and Services
BDE	Bureau of Design and Environment
CCDD	Clean Construction or Demolition Debris
CDOT	Chicago Department of Transportation
CIC	Community Infrastructure Contracts
ESR	Environmental Survey Request
2FM	Fleet and Facility Management
IDOT	Illinois Department of Transportation
ISGS	Illinois State Geological Survey
NCI	Neighborhood Capital Improvement
OSMRS	On-Site Monitoring of Regulated Substances
PESA	Preliminary Environmental Site Assessment
PM	Project Manager
PMA	Project Monitoring Application
PSI	Preliminary Site Investigation
PS&E	Plans, Specifications, & Estimates
QA	Quality Assurance
QC	Quality Control
REC	Recognized Environmental Condition
ROW	Right-of-way
RS	Regulated Substances
RSC	Regulated Substances Coordinator
RSFCR	Regulated Substances Final Construction Report
RSPCP	Regulated Substances Pre-Construction Plan
SOP	Standard Operating Procedure
SW	Special Waste
USFO	Uncontaminated Soil Fill Operation

**APPENDICES**

Appendix A	Sampling Plan Guidance
Appendix B	Sample Forms (IDOT, CDOT)
Appendix C	Regulated Substances Classification and Discussion on Regulations
Appendix D	Toxicity Characteristic Table (Hazardous Waste) and Maximum Allowable Concentration Table (CCDD)
Appendix E	Checklist of Regulated Substances Action Items for CDOT Staff; and Table 2 – Regulated Substances Roles and Responsibilities
Appendix F	CCDD/USFO Receiving Facilities Near Chicago
Appendix G	Landfill Waste Characterization and Profiling Protocol
Appendix H	Report Format – Environmental Investigation CDOT Local Roadway Projects

The following SOPs are intended to be referred to by CDOT PMs and staff for consideration of Regulated Substances, spoils management, and estimation of disposal quantities for **all** projects. The flow of the SOPs provides further details to **Figure 1-1** (Regulated Substances Flow Chart), with numbers referring to labelled decision steps (e.g., **S1.01** refers to the box labelled **S1.01** within Phase I on **Figure 1-1**).

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**0.01 – Determination of Project Jurisdiction**

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Determining the jurisdiction of the Project Corridor is a critical first step for assessing which protocol the CDOT PM (herein referred to as “PM”) will follow. There are two categories the Project Corridor jurisdiction will fall into: State Roadways and Local Roadways.

- **State Roadways**<sup>1</sup>: For projects that have some or all of the Project Corridor within an Illinois Department of Transportation (IDOT) roadway or right-of-way (ROW), or affecting state ROW or roads under state jurisdiction, the PM will follow the *State Roadway* path on **Figure 1-1A** and presented in steps **S1.01** through **S3.01** on pages 3 and 4 of this document.
- **Local Roadways**: For all other projects (not under State Roadway jurisdiction) in which the Project Corridor improvements are not (i) affecting State ROW, (ii) acquiring ROW in the name of the State, or (iii) involves temporary or permanent easements in the name of the State, the PM will follow the *Local Roadway* path on **Figure 1-1B** and presented below in Steps **L1.01** through **L3.01** and presented on pages 2 and 3 of this document. Examples of typical local projects include:
  - Local streets improvements, which could include road resurfacing, utility improvements, road reconstruction, and/or other general street improvements; and
  - Improvements of local alleys and sidewalks under the Neighborhood Capital Improvement (NCI) program and/or Community Infrastructure Contract (CIC) program.

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<sup>1</sup> Refer to Chapter 27-1.02 *Environmental Surveys – IDOT Bureau of Design and Environmental (BDE) Manual* or Chapter 20-2.01 *Special Environmental Studies – IDOT Bureau of Local Roads and Streets (BLRS) Manual* for applicability of projects which are categorized as State Roadway projects. **Coordination with IDOT-BDE directly for confirmation on project jurisdiction is recommended.**

For a summary of project types, refer to **Table 1 CDOT Project Types and Regulated Substances Requirements** at the end of this section and refer to **Table 2 Regulated Substances Roles and Responsibilities** within **Appendix E** for a summary of general roles of project team members regarding Regulated Substances process.

## **Local Jurisdiction Projects**

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### ***L1.01 – Submittal of Property Screen Request***

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This step involves the submittal of a Property Screen request to the CDOT Quality Assurance (QA) Consultant (herein referred to as “CDOT QA”).

#### **Local Roadway:**

- The PM will submit a request for a Property Screen/Regulated Substances Screen to CDOT QA for the entire Project Corridor using the CDOT “*Regulated Substances QA Review (Phase I)*” form provided in **Appendix B**.
- If the project is part of the NCI/CIC program, the project description and area will also be submitted to CDOT QA.

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### ***L1.02 – Confirmation of Receipt of Environmental Due Diligence***

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Prior to receiving design approval and completing Phase I of the project, the PM will confirm that the property screen has been received back from CDOT QA.

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### ***L2.01 – (Local Roadway) Sampling Plan Submittal***

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1. ***If off-site disposal of soil is anticipated for the project***, this step requires the PM or Consultant to prepare a sampling plan for the Project Corridor, based on the findings of the Property Screening previously completed by CDOT QA. Refer to **Table 1** for guidance based on project type.
  - Information regarding the proper protocol for preparation of a sampling plan, as well as a project example, is included in **Appendix A**.
  - CDOT QA will prepare and submit the Sampling Plan to the CDOT PM for review and approval.
  - The PM should refer to the “*Regulated Substances QA Review Form (Phase II)*”, included in **Appendix B**, to be submitted to CDOT QA.
2. For projects in which off-site disposal of soil is ***not*** anticipated (e.g., arterial road resurfacing only, surface striping, etc.), these projects will fall under the ***risk-managed*** approach to due diligence. Projects determined by the PM to be risk-managed, any potential spoils generated for off-site disposal during construction will be managed and disposed of off-site as non-special waste, special waste, or hazardous waste (i.e., the project spoils are ***not*** eligible for disposal at a Clean Construction or Demolition Debris (CCDD) facility or Uncontaminated Soil Fil Operation (USFO). Refer to **Table 1** for guidance based on project type.
  - For risk-managed projects, the PM shall coordinate with CDOT QA to confirm proper risk-managed environmental due diligence has been completed for the project.

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### **L2.02 – (Local Roadway) Sampling Request to Consultant**

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Once CDOT QA has commented on the sampling plan and/or risk-managed due diligence, and any comments are addressed, the sampling plan will then be forwarded to the Design Consultant for execution. The Design Consultant (or their subconsultant Environmental Professional) will collect the samples from the locations identified in the sampling plan and conduct the analyses requested. The Design Consultant will then prepare soil disposal documents and identify any recommended special provisions. Once completed, disposal documents will be transmitted to the PM and CDOT QA for review, approval and signature if applicable. CDOT QA will forward on the documents to request pre-approval from CCDD facilities.

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### **L2.03 – Determine Disposal Quantities for PS&E**

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The PM and the Design Consultant will utilize the soil disposal documents to determine quantities of material eligible for CCDD disposal, quantities to be reused on site, quantities for non-special waste landfill disposal, and if any material will be disposed of as hazardous waste or special waste. CDOT QA may aid in providing boring area stationing/offset, depth of impacts, and calculation of disposal quantities, as requested by the PM. These quantities and pre-approval letters from eligible CCDD facilities will be included in final PS&E documents at the end of Phase II. Quantities for soil and/or groundwater disposal shall be classified according to the IDOT Standard Specifications for Road and Bridge Construction (SSRBC), Section 669.05 (Removal and Disposal of Regulated Substances – Contaminated Soil and/or Groundwater Management and Disposal). CDOT QA will also recommend appropriate Pay Items associated with identified soil classifications, including as necessary to compare analytical results to Construction Worker Remedial Objectives<sup>2</sup>. For all CDOT local projects<sup>3</sup>, the following Pay Items, at a minimum, will be included:

- CDOT SP 202-2 – EARTH EXCAVATION (SOIL TO CCDD, or SOIL TO USFO, and/or SOIL TO LANDFILL)
- 66900530 – SOIL DISPOSAL ANALYSIS
- 66901001 – REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN (RSPCP) with Contractor responsible for their workers safety by including a Site Contamination Health and Safety Plan inclusive of potential contaminants of concern among which may include VOCs, SVOCs, and Metals;
- 66901006 – ON-SITE MONITORING OF REGULATED SUBSTANCES; and
- 66901003 – REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT (RSFCR).

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### **L3.01 –Disposal Documentation Check**

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Prior to the beginning of construction, CCDD documentation and/or landfill documentation and profiling should be reviewed to confirm the date of completion. If documentation is less than one (1) year old, no action is required. If more than one (1) year has elapsed, then CDOT QA should be notified to update documentation, if required. CDOT QA will handle updating the disposal certification documentation as needed.

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### **L3.02 – (Local Roadway) Construction QA**

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Regulated Substances/disposal issues during construction should be coordinated with the CDOT QA and the project RE. Additionally, CDOT QA should be notified of any environmental sampling efforts by the Construction Contractor’s environmental professional representative (QC), to allow for simultaneous QA split sampling.

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<sup>2</sup> Refers to Remedial Objective (RO) from Table B, Appendix B, Part 742 – TACO.

<sup>3</sup> The following programs may only require select Pay Items from SSRBC 669: NCI/CIC Green Alley Program.

## **State Jurisdiction Projects**

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### *S1.01 – Submittal of Environmental Survey Request*

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This step involves the submittal of an Environmental Survey Request (ESR) to IDOT.

**State Roadway:**

- The CDOT PM will submit an ESR (along with the required attachments) to IDOT using the instructions provided in **Appendix B**
- An IDOT Regulated Substances Coordinator (RSC) will then review the submittal and perform Regulated Substances Screening for the project
- If the Regulated Substances Screening criteria indicates that a Preliminary Environmental Site Assessment (PESA) is required, IDOT Bureau of Design and Environment (BDE) will then request for a PESA to be completed for the project by the Illinois State Geological Survey (ISGS) if the project is entirely within a State route, or by CDOT’s consultant or CDOT QA if some of the project is within a non-State route.

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### *S1.02– Confirmation of Receipt of Environmental Due Diligence*

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Prior to receiving design approval and completing Phase I of the project, the CDOT PM will confirm that the results of the PESA have been received from IDOT.

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### *S2.01 – (State Roadway) PESA Response Form and PSI Work Order Submittals*

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This step requires the CDOT PM to submit the PESA Response Form and PSI Work Order Request (if RECs are present) to IDOT. Forms are included in **Appendix B**, for reference. IDOT will oversee the completion of the PSI and preparation of the results.

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### *S2.02 – (State Roadway) Regulated Substances Findings*

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The CDOT PM will receive a Final Memo from IDOT detailing the results of the Regulated Substances investigation, including special provisions and disposal quantities. CDOT PM will incorporate this information into PS&E documents. The CDOT PM shall confirm that the quantities for soil and/or groundwater disposal shall be classified according to the IDOT Standard Specifications for Road and Bridge Construction, Section 669.05 (Removal and Disposal of Regulated Substances – Contaminated Soil and/or Groundwater Management and Disposal).

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### *S3.01 – (State Roadway) Disposal Coordination*

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Disposal issues during construction should be coordinated with the IDOT PM.

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### *S3.02 – (State Roadway) Construction QA*

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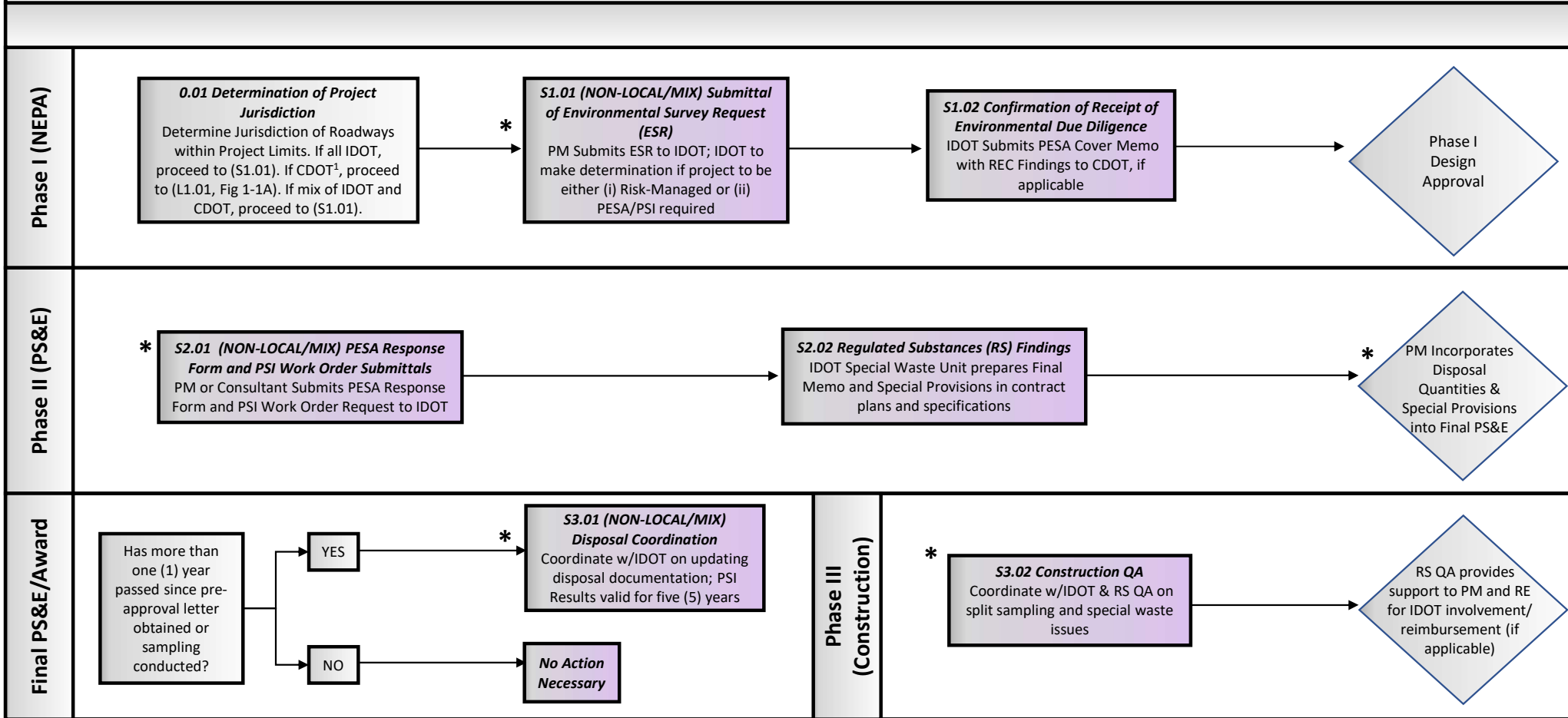
Regulated Substances/disposal issues during construction should be coordinated with the IDOT PM. Additionally, CDOT QA should be notified of any environmental sampling efforts by the QC, to allow for simultaneous QA split sampling.

**CDOT Project Types and Regulated Substances Requirements**

*Table 1 – CDOT Project Types and Regulated Substances Requirements*

CDOT Project Type	Spoils to be Generated Requiring Off-Site Disposal?	Type of Spoils and Expected Depth of Excavation	Required Action for Regulated Substances	Eligible for CCDD/USFO Disposal?
Striping and Pavement Marking (Only)	No	N/A	None required	N/A
Resurfacing (Only); Design by CDOT	Potentially Yes (Soil Only), minimal volume and in select locations	<b>Soil</b> (fill and aggregate material): to 1-2 feet below ground surface (bgs)	<b>Risk-Managed Approach:</b> Coordinate with CDOT QA for Regulated Substances Review/Corridor Screen	No (due to minimal volume); dispose as Non-Special Waste, Special Waste, or Hazardous Waste, per sampling results
Sign Installations, Traffic Signal Improvements; Design by CDOT	Yes (Soil)	<b>Soil:</b> potentially 8 feet bgs for foundations	<b>Risk-Managed Approach:</b> Coordinate with CDOT QA for Regulated Substances Review/Corridor Screen in Phase I; Regulated Substances Review to be utilized by Contractor/QC for landfill disposal profile samples	No (due to minimal volume); dispose as Non-Special Waste, Special Waste, or Hazardous Waste, per sampling results
Roadway Reconstruction; Design by Consultants	Yes (Soil)	<b>Soil:</b> potentially 5 to 6 feet bgs	<b>Design Consultant to Provide Disposal Documentation:</b> Coordinate with CDOT QA in Phase I for overall scope of work; design consultant to conduct PESA/PSI in Phase I/II to assess disposal specifications, per IDOT 669.05; coordinate with CDOT QA in Phase II and III for split sampling as needed	Yes (due to larger volume spoils and cost savings for CCDD disposal)
Bridge Work or Work Near Water Body	Yes (Soil and Groundwater)	<b>Soil:</b> various depths based on grading, micropiling, and abutment plans <b>Groundwater/Storm water:</b> groundwater or storm water intrusion in micropiles or trenching	<b>Design Consultant to Provide Disposal Documentation:</b> Coordinate with CDOT QA in Phase I for overall scope of work; design consultant to conduct PESA/PSI in Phase I/II to assess disposal specifications, per IDOT 669.05; coordinate with CDOT QA in Phase II and III for split sampling as needed	Yes (due to larger volume spoils and cost savings for CCDD disposal)

# Figure 1-1A Regulated Substances Flow Chart: IDOT Jurisdiction Projects (NON-LOCAL/MIX)

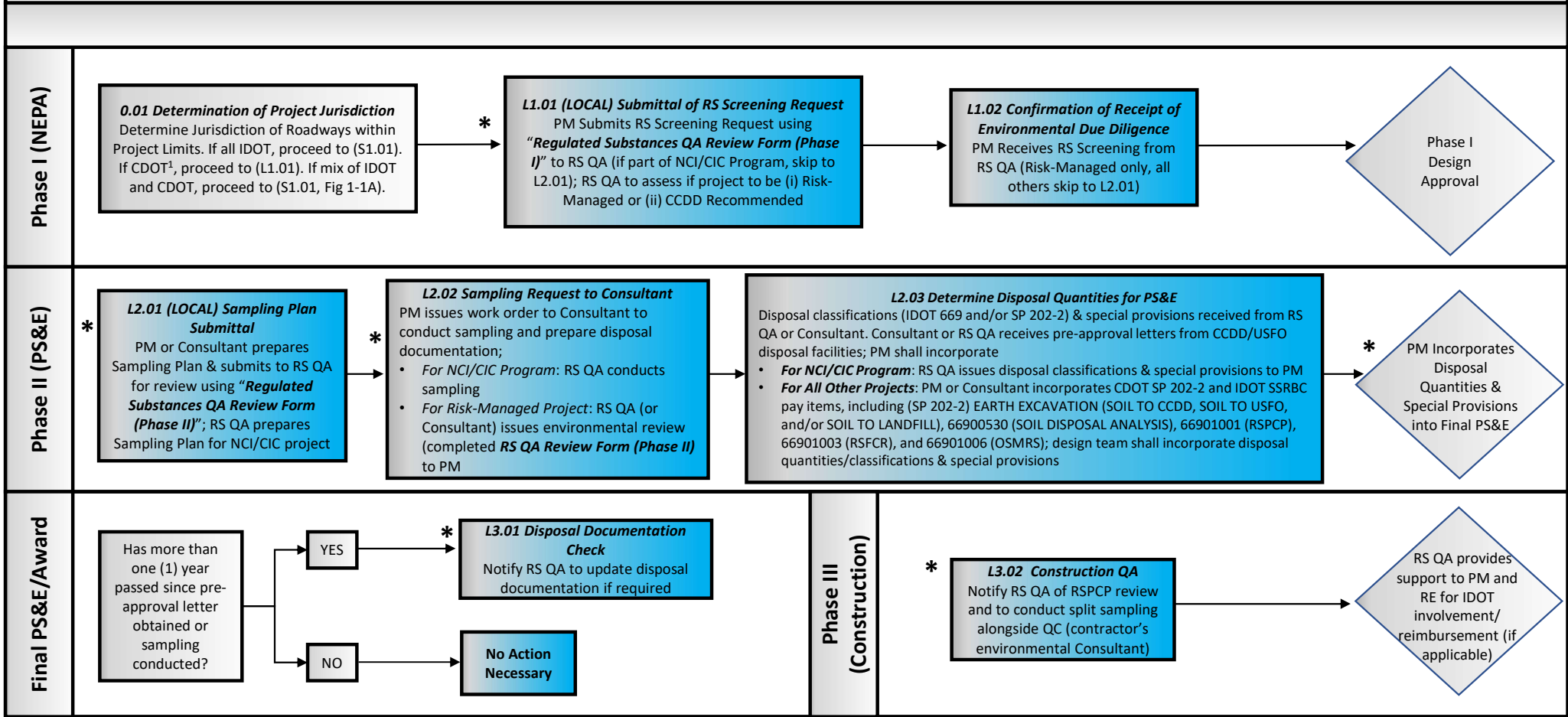


**Notes:**

<sup>1</sup> All non-IDOT routes considered CDOT (including CCDOTH and other non-State Jurisdictions), as long as funding source is fully LOCAL and no IDOT review/approval of PS&Es required for the project.

\* This step requires involvement from the PM.

# Figure 1-1B Regulated Substances Flow Chart: CDOT Jurisdiction Projects (LOCAL)



**Notes:**

<sup>1</sup> All non-IDOT routes considered CDOT (including CCDOTH and other non-State Jurisdictions), as long as funding source is fully LOCAL and no IDOT review/approval of PS&Es required for the project.

\* This step requires involvement from the PM.

**APPENDIX A**

**SAMPLING PLAN GUIDANCE**

## **APPENDIX A – SAMPLING PLAN GUIDANCE**

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**Purpose:** The purpose of this document is to provide guidance and policy for the City of Chicago Department of Transportation (CDOT) to standardize testing procedures for waste material designated for disposal at a clean construction or demolition debris (CCDD) facility and/or a landfill facility.

**Owner:** The document was prepared with input from the Departments of Assets, Information and Services (AIS), Fleet and Facility Management (2FM), and CDOT, and will be maintained by the CDOT Quality Assurance (QA) consultant for Regulated Substances (referred to herein as “CDOT QA”).

**Effective Date:** August 8, 2025

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This document is organized into the following sections:

- 1.0** Phase II Process
- 2.0** Types of Projects
- 3.0** Identified PIPs
- 4.0** Investigation of PIPs and Nature of Concern
- 5.0** The Sampling Plan
- 6.0** Additional Minimum Sampling Considerations
- 7.0** Sampling & Disposal Documentation
- 8.0** Phase III Process

### **LIST OF ACRONYMS**

AIS	Department of Assets, Information, and Services
bgs	Below ground surface
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CCDD	Clean Construction or Demolition Debris
CDOT	Chicago Department of Transportation
CDPH	Chicago Department of Public Health
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CIC	Community Infrastructure Contracts
ELUC	Environmental Land Use Control
GMP	Groundwater Management Plan
HAA	Highway Authority Agreement
IAC	Illinois Administrative Code
LUST	Leaking Underground Storage Tank
MAC	Maximum Allowable Concentration
MSA	Metropolitan Statistical Area
MWRDGC	Metropolitan Water Reclamation District of Greater Chicago
MTBE	Methyl tert-butyl Ether
NCI	Neighborhood Capital Improvement
NFR	No Further Remediation

**LIST OF ACRONYMS**

PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PIP	Potentially Impacted Property
PNA	Polynuclear Aromatic Hydrocarbon
QA	Quality Assurance
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
ROW	Right of Way
SPLP	Synthetic Precipitation Leaching Procedure
SRO	Soil Remediation Objectives
SRP	Site Remediation Program
SVOC	Semi-Volatile Organic Compound
TCLP	Toxicity Characteristic Leaching Procedure
USFO	Uncontaminated Soil Fill Operation
VOC	Volatile Organic Compound

**1.0 Phase II Process**

At the beginning of the Phase II process, CDOT QA and/or the design consultant will prepare a sampling plan for the Project Corridor, which will be reviewed/approved by CDOT personnel. This sampling plan should include investigation of all sites identified by CDOT QA and at least one sample per block for soil pH. The sampling plan should account for three factors: type of project, identified PIPs, and the nature of concern at each site.

**2.0 Type of Projects**

CDOT projects typically fall into five (5) categories: striping and pavement marking, roadway repaving/resurfacing, sign installations/traffic signal improvements, roadway reconstruction (with and without utility work), and bridge improvements. Minimum sampling requirements on a cubic yard basis are typically not required by receiving facilities. However, sampling should be conducted to the maximum depth of potential excavation. Refer to **Table 1** in the “*Special Waste SOPs for State and Local Jurisdiction Roadways*” document for a list of project types.

**3.0 Identified PIPs**

ASTM Standard E 1527-21 uses the term Recognized Environmental Condition (REC) to assess risk. ASTM specifically defines REC as “the presence or likely presence of any *hazardous substances* or *petroleum products* in, on, or at a property: (1) due to any *release* to the *environment*; (2) under conditions indicative of a *release* to the *environment*; or (3) under conditions that pose a *material threat* of a future *release* to the *environment*. *De minimis conditions* are not *recognized environmental conditions*.”

Part 1100, 35 Illinois Administrative Code (IAC) has adopted the term Potentially Impacted Property (PIP) when assigning risk to sites. The PIP sites are essentially the same as REC sites as defined by ASTM Standard E 1527-21. Based on the establishment of PIP as the CDOT standard for describing sites at which

special waste management issues may be associated, this Sampling Plan Guidance uses the term PIP to describe sites presenting environmental concern to the Project Corridor.

The proximity of a site to the planned improvement area and site regulatory history as well as professional judgment will guide identification of PIPs. The following **Table A-1** shall be considered to provide consistency on CDOT projects.

**TABLE A-1: PIP Identification Table**

Type of Site	PIP Identification
Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)	PIP
Leaking Underground Storage Tank (LUST), SPILLS, or Site Remediation Project (SRP) Site	PIP unless No Further Remediation (NFR) letter documents all contamination removed in accordance with current SROs/MACs with no Highway Authority Agreement (HAA) or other Environmental Land Use Control (ELUC) on ROW or unless agency file review indicates otherwise
Gas Station	PIP
Auto Body Shops	PIP
Dry Cleaners	PIP, exception for storefront dry cleaners where all cleaning is performed off-site (historical and current)
RCRA Generator	Sites with violations are PIPs, sites without violations are not PIPs unless other documentation or observations identify potential contamination
Railroad (Crossings or Parallel)	PIP
Industrial Properties	PIP identification dependent on use and other findings
Transformers	Assumed to be <i>de minimis</i> . PIP if evidence of leaking, staining, or stressed vegetation
Golf Courses	PIP
Bridge Constructed Before 1988	PIP
Urban Fill Material	PIP

#### 4.0 [Investigation of PIPs and Nature of Concern](#)

Based on the sites identified from the CDOT QA property screen, the number of soil boring locations can be selected. It is recommended that some sites, such as gas stations or large industrial facilities, have more than one soil boring advanced to characterize spoils in the area.

A minimum of one (1) boring should be completed per 200 linear feet of improvement, regardless of PIP status along the project area. The boring frequency shall be increased to include at least one (1) boring to address each PIP site. The frequency of borings at each PIP site shall be one (1) boring per 200 feet of frontage along the respective PIP site. PIP sites located on corner lots with planned improvements along more than one side require a minimum of one boring along each side.

Minimum sampling parameters can be specified by classifying the nature of listings associated with the identified sites. In addition, it is recommended to conduct testing for the 8 Resource Conservation and Recovery Act (RCRA) metals where metals contamination is a concern. Recommended minimum soil boring frequencies and a list of recommended sampling protocols are displayed below in **Table A-2**.

## **5.0 The Sampling Plan**

Using the information provided by CDOT QA and included in **Table A-1** and **Table A-2**, a sampling plan for the project should be prepared. The sampling plan should include proposed boring locations, terminal boring depth, and parameters to be tested at each location. Once the sampling plan has been prepared, it should be reviewed by CDOT QA and/or the Department of Fleet and Facility Management (2FM)<sup>1</sup>. ***As of the Effective Date of this document, 2FM and/or AIS can only provide a high-level review of project environmental concerns and therefore complete reviews should be forwarded to CDOT QA.*** CDOT QA can also assist with any sites that may require additional review or site-specific testing. Costs can be estimated based upon the required analytical testing. In addition, contingency funds for landfill characterization sampling should be prepared for areas which do not achieve the Maximum Allowable Concentration (MAC) values for CCDD disposal.

If the project type anticipates the generation of displaced groundwater (such as a waterway bridge project), a Groundwater Management Plan (GMP) shall be prepared. Information included in the GMP shall include, but not be limited to:

- Management Plans (e.g., groundwater/sediment slurry to be pumped to settling tank, with decant to be pumped to a holding tank; include details on pump size, tank sizing, and filtration of solids)
- Disposal Plans (e.g., Consideration of eligibility of treated groundwater be discharged to an MWRDGC sewer. Assessment of permit requirements from MWRDGC. Other considerations for proper off-site disposal of groundwater.)
- Sampling Parameters

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<sup>1</sup> 2FM, and formerly the Department of Assets, Information and Services (AIS), maintains “permit hold areas” within the City of Chicago, which requires site-specific sampling and/or monitoring requirements for any subsurface work conducted within the ROW. An example is the Lindsay Light Streeterville Thorium Monitoring Area (Moratorium Area), as discussed at the following website: [https://www.chicago.gov/city/en/depts/cdph/provdrs/healthy\\_communities/svcs/apply\\_for\\_a\\_streeterville\\_right-of-way\\_or\\_property\\_permit.html](https://www.chicago.gov/city/en/depts/cdph/provdrs/healthy_communities/svcs/apply_for_a_streeterville_right-of-way_or_property_permit.html). An additional example includes the Former Carnotite Reduction Company Site, within the area surrounding 434 E. 26<sup>th</sup> Street, as discussed at the following website: <https://www.chicago.gov/city/en/sites/carnotite-remediation/home.html>. CDOT projects which fall within a moratorium or permit hold area will require coordination with AIS for proper sampling and monitoring plan review.

**TABLE A-2: Recommended Soil Boring Frequency and Analysis Table**

Site Type	Concern/(Minimum # of Borings)	Recommended Analyses <sup>1</sup>
Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)	Site Specific (1 boring per 200 feet)	VOCs, SVOCs, RCRA Metals, pH <i>or site specific</i>
Leaking Underground Storage Tank (LUST)  or  Site Remediation Program (SRP) <sup>2</sup>	Gasoline (2 borings) Diesel (2 borings) Fuel Oil / Heating Oil (1 boring) Used Oil (2 borings) Other Petroleum (2 borings) Site Specific (1 boring per 200 feet)	BTEX <sup>A</sup> +MTBE <sup>B</sup> , total lead, pH BTEX, PNA <sup>C</sup> , pH BTEX, PNA <sup>C</sup> , pH VOCs <sup>D</sup> , SVOCs <sup>E</sup> , RCRA Metals <sup>F</sup> , pH VOCs, SVOCs, RCRA Metals, pH VOCs, SVOCs, RCRA Metals, pH <i>or site specific</i>
Gas Station	Gasoline and Diesel (2 borings)	BTEX+MTBE, PNA <sup>C</sup> , RCRA Metals, pH
Dry Cleaner	Chlorinated Solvents (1 boring per 200 feet)	VOCs, pH
RCRA Generator (violations)	Site Specific (1 boring per 200 feet)	VOCs, SVOCs, RCRA Metals, pH <i>or site specific</i>
Railroads (Crossing)  Railroads (Parallel)	Historic Chemical Treatment, Land-Use, and Spills (1 boring each side) (1 boring per 200 feet)	BTEX, PNA <sup>C</sup> , RCRA Metals, Pesticides, Herbicides, pH
Autobody	Solvent/Chemical Use (1 boring per 200 feet)	VOCs, SVOCs, RCRA Metals, pH
Golf Courses	Chemical use (1 boring minimum at low point near drainage path)	Lead, Arsenic, Pesticides, Herbicides, pH
Chicago Department of Public Health (CDPH) Inspection and Code Enforcement	Illegal auto shop, unpermitted spray painting activities, etc. (1 boring per 200 feet)	VOCs, SVOCs, RCRA Metals, pH
Pad-Mounted Transformer (with evidence of release)	PCBs <sup>G</sup> (1 boring)	PCBs, pH
Other Sites (Building or dumping area) or Industrial Property	Site Specific (1 boring per 200 feet)*	VOCs, SVOCs, RCRA Metals, pH <i>or site specific</i>
Bridge Constructed Before 1988	Historic Painting Operations (1 boring each side)	Lead, pH (or per CCDD LPC-667 protocol if necessary)
Stockpile or Fill of unknown origin/sourced outside project limits	Site Specific (1 sample per 5,000 cy soil)	35 Ill. Adm. Code 740 Appendix A Tables A through D Target Compound List (TCL) parameters and herbicides
Chicago Urban Fill Material	Site Specific (1 boring per 200 feet)	PNA <sup>C</sup> , RCRA Metals, pH

<sup>A</sup> BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes; a subset of VOCs

<sup>B</sup> MTBE: Methyl tert-butyl Ether

<sup>C</sup> PNA<sup>C</sup>: Polynuclear Aromatic Hydrocarbons (also referred to as PAHs – polycyclic aromatic hydrocarbons), a subset of SVOCs

<sup>D</sup> VOCs: Volatile Organic Compounds

<sup>E</sup> SVOCs: Semi-Volatile Organic Compounds

<sup>F</sup> The 8 RCRA Metals (total) include: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver

<sup>G</sup> PCBs: Polychlorinated Biphenyls

\*The recommendation is for buildings or dumping areas

<sup>2</sup> Consider adjusting minimum sampling requirements for LUST or SRP sites that have received NFR letter documenting all contamination removed in accordance with current SROs/MACs. Additionally, TCLP metals may be analyzed as an alternative CCDD compliance verification as stipulated in footnote “m” in the table *Summary of MAC of Chemical Constituents in Uncontaminated Soil Used as Fill Material at Regulated Fill Operations* (35 IAC 1100.Subpart F).

**Table A-2** includes a list of frequently encountered types of sites. Additional sites may be encountered and will require additional review as necessary based on site-specific considerations. In addition to the sampling parameters listed above, a minimum of one sample per block should be tested for soil pH to demonstrate the material achieves the soil pH requirement for CCDD disposal. If PIPs are present, then a pH sample can be collected from the PIP location.

## 6.0 Additional Minimum Sampling Considerations

CCDD facilities contacted have indicated a preference for sampling based upon identified PIPs during due diligence and have not requested a minimum sampling frequency based on quantity of material generated at this time. Based on the historical consideration of unknown fill material used throughout the City of Chicago, it is recommended that one soil sample per city block should be analyzed for the Chicago Urban Fill Material parameters (as presented in **Table A-2**) at a minimum. Otherwise, sampling should be conducted as an as needed basis based upon identified PIPs for CCDD purposes. However, industry trends indicate that some CCDD facilities have specific acceptance requirements among which may include minimum total number of samples, frequency-based requirements by volume and/or linear extent of project, mandatory minimum analytical parameters, and/or requirements for age of analytical results. It is recommended that coordination with CCDD facilities occur either 1) prior to sample collection for a review of due diligence and sampling plan or 2) upon completion of LPC-Form documents to seek concurrence for acceptance pre-authorization in advance of construction activities.

## 7.0 Sampling & Disposal Documentation

CDOT QA and/or 2FM will review the sampling plan to confirm consistency with the requirements outlined in the previous sections of this guidance and unique situations have been resolved. After the plan has been approved by CDOT QA, it will be released to the Design Consultant to conduct the sampling and prepare disposal documentation. Soils collected for metals analysis on CDOT projects, should be analyzed for total concentrations (mg/kg) and compared to the corresponding default MAC value. CCDD regulations allow metals, with the exception of arsenic<sup>3</sup>, to achieve the MAC values via either total amount (measured in mg/kg) or via Toxicity Characteristic Leaching Procedure (TCLP)/Synthetic Precipitation Leaching Procedure (SPLP) testing (measured in mg/L). Consistent with CCDD regulations, samples that fail the default MAC value comparison for total metals, with the exception of arsenic, should be further analyzed via the TCLP method<sup>4</sup> for just the metal(s) that fail to achieve the total MAC. If a sample achieves the appropriate MAC value via either the total or TCLP method, then that area is considered suitable for CCDD disposal.

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<sup>3</sup> The arsenic MAC has been set at 13 mg/kg, which represents the 95<sup>th</sup> percentile of the upper confidence of the mean, except in non-Metropolitan Statistical Area (MSA) counties where the MAC has been set at 11.3 mg/g. Therefore, approximately 5 percent of all samples tested for arsenic will fail due to naturally occurring arsenic.

<sup>4</sup> Either the SPLP or TCLP tests are suitable for achieving the MAC if total fails; however, landfills typically ask for TCLP metal results, so TCLP testing should be preferred as it may be required for landfill disposal if the sample does not achieve the MAC via total or TCLP testing.

Once analytical results have been received and soils have been assessed for CCDD eligibility, the Design Consultant/Environmental Professional shall prepare CCDD disposal documentation. CCDD disposal documentation shall be inclusive of LPC Form 663 and sufficient to identify areas of CCDD eligible soils and CCDD exclusion zones (CCDD ineligible soils) as appropriate. If areas excluded from CCDD disposal are identified and time and budget allow, additional sampling can be conducted to minimize these areas and maximize eligibility for CCDD disposal. The CCDD disposal documentation will be submitted to CCDD facilities for pre-approval by either the Design Consultant/Environmental Professional, or by CDOT QA. For CCDD disposal documentation, the following shall be included, at a minimum:

- Illinois Environmental Protection Agency (IEPA) Uncontaminated Soil Certification LPC-663 form<sup>5</sup>, signed and stamped by an Illinois licensed P.E. or P.G.
- Laboratory analytical results with associated tables and figures of sampling locations.
- Narrative description of the Basis for Certification and Attachments, as stipulated and required within 35 IAC 1100.

The completed CCDD disposal documentation should be submitted to at least three (3) area CCDD facilities to request pre-approval. The pre-approval submission shall request written approval from the CCDD facility. Affirmative CCDD pre-approval responses should be included in project bid documents to assist contractors in preparing bids to reduce change orders related to material disposal.

CCDD exclusion zone soils shall be associated with an appropriate landfill disposal profile. Should conditions in the field indicate gross contamination of soil, the material shall be assessed for hazardous characteristics pursuant to the Illinois Administrative Code (IAC) part 722.111. If a listed source of contamination is not known or determined, waste characterization<sup>6</sup> analyses using the “Code R” list shall be conducted.

Should the CCDD testing results indicate one or more parameters as listed in 40 Code of Federal Regulations (CFR) 261.24 (Table 1, also included in **Appendix D** of the *Regulated Substances SOPs for State and Local Jurisdiction Roadways*) exceed the “20 times rule” for total constituents (in mg/kg), those specific parameters shall be analyzed for via the TCLP method to assess the toxicity characteristic. Additional sampling shall be conducted to delineate the identified areas of contamination exceeding the Maximum Concentration of Contaminants for the Toxicity Characteristic (40 CFR, 261.24, Table 1).

For NCI/CIC, TSM, and other program projects, refer to **Appendix G** (of the *Special Waste SOPs for State and Local Jurisdiction Roadways*) for the Landfill Waste Characterization and Profiling Protocol to provide adequate waste profiling for landfill disposal<sup>7</sup>.

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<sup>5</sup> Per draft City of Chicago CCDD Sampling Policy document, an LPC-662 form is not acceptable for disposal of any city ROW soil. An example LPC-663 form is included in **Appendix B**.

<sup>6</sup> Landfill waste characterization, commonly known as “Code R” analysis, includes the following parameters: Toxicity Characteristic Leaching Procedure (TCLP) VOCs, TCLP SVOCs, TCLP RCRA metals, TCLP pesticides, TCLP herbicides, PCBs, reactive sulfide, reactive cyanide, paint filter test, flash point, and pH.

<sup>7</sup> The Neighborhood Capital Improvement (NCI) program and Community Infrastructure Contracts (CIC) programs have historically included multi-year contracts with various construction companies. Based on this, annual landfill profiles for “Chicago urban fill material” are renewed for each contractor, using the Laraway Subtitle D sanitary landfill facility in Joliet, operated by Waste Management (WM).

## 8.0 Phase III Process

If more than one (1) year has elapsed from the preparation of the LPC-663 form to the beginning of construction, then an update will be required. To update the CCDD document, a new property screening report will need to be requested from CDOT QA. The results of the new property screening should be compared with the original property screening. If no new sites are identified along the project corridor, then the LPC-663 certification should be updated in a letter to reflect the recent property screening. If new sites are identified, then additional sampling at these locations should be conducted. Please note that industry trends indicate that some CCDD facilities require additional laboratory analysis for sample results if more than one (1) year has elapsed since sample collection. Coordination with CCDD facilities is important to identify if updated due diligence is sufficient or if contemporary laboratory analysis is required and a sampling plan may be necessary to supplement the original analyses.

If more than five (5) years have passed since the original sampling, new samples will need to be collected. In this case, a new property screening should be requested from CDOT QA and a new sampling plan prepared and executed for the project.

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For CDOT programs similar to NCI and/or CIC, a similar annual landfill profile renewal system can be maintained, provided that updated Code R sample analysis is conducted annually, with the sample collected from material considered generally representative of the overall waste stream to be anticipated in that renewal year and specific to that profile.

**Revision History**

<b>DATE</b>	<b>PERSON/AUTHOR</b>	<b>REVISION MADE</b>
08/08/2025	(H&H/GZA)	First Draft

**APPENDIX B**

SAMPLE FORMS

**SECTION 1 : To be completed by the CDOT PM/Design Engineer:**

CDOT PM/Design Engineer Name	_____
CDOT Project Name	_____
CDOT Project No.	_____
Project Area/Corridor Limits	_____
Roadway Jurisdiction	_____
Funding Source(s)	_____

**To be completed by the Regulated Substances (RS) QA:**

QA Review Completed By	_____
QA Consultant	_____
Date Form Received from CDOT PM	_____
Date Form Returned to CDOT PM	_____
(Final Phase II Review)	_____

**LEGEND**

- To be completed by CDOT PM or Design Engineer
- To be completed by Regulated Substances (RS) QA

**\*\*CDOT PM to keep this form throughout the entirety of the Project, from initial setup all the way through to Construction Closeout\*\***

**SECTION 2 : CDOT PM/Design Engineer to answer the below Questions 2A through 2C and submit this form to CDOT RS QA for review.**

**2A. PROJECT JURISDICTION.** Determine the project jurisdiction. **LOCAL** projects will have no funding sources or review/approvals of project milestones other than City of Chicago. **NON-LOCAL** projects will have funding sources outside of the City of Chicago (IDOT, Federal, County, or a mix, etc.) and/or require IDOT oversight and review/approval of project PS&Es. **Please indicate Project Jurisdiction below.**

LOCAL (CDOT) With Funding Through City of Chicago       NON-LOCAL/MIX (IDOT, Federal, County, or mix)

**2B. PROJECT TYPE.** The Project Type will aid in assessing Regulated Substances requirements. Please indicate (below) the type of project. **Please mark all that are applicable.**

<b>GROUP A PROJECTS - Minimal Subsurface Excavation</b>	<b>GROUP B PROJECTS - Significant Subsurface/Earthwork Excavation</b>
<input type="checkbox"/> Resurfacing	<input type="checkbox"/> Roadway Reconstruction/Reconfiguration
<input type="checkbox"/> Streetscapes	<input type="checkbox"/> Green Alley Projects
<input type="checkbox"/> Sign Installations	<input type="checkbox"/> Utility Improvements
<input type="checkbox"/> Traffic and/or Pedestrian/Bicycling Signals	<input type="checkbox"/> Bridge Work
<input type="checkbox"/> Safety Improvements: Pedestrian and/or Bicycle Infrastructure	<input type="checkbox"/> Other: _____

**2C. ADDITIONAL.** Please add any additional relevant information on the project here (if applicable). Additional information could include proposed letting date for solicitation of Engineering RFPs or Contractor Bids, project submittal deadlines, or relevant information regarding Regulated Substances for the project (including anticipated volume of earthwork/spoils for off-site disposal), anticipated excavation depths and areas, if applicable). *Additional information can aid in assessing Regulated Substances requirements, but is not mandatory.*

**SECTION 3 : CDOT SW QA to Complete the Below Section (Questions 3A & 3B) and return to CDOT PM for file and required action items.**

**3A. Based on PROJECT JURISDICTION and PROJECT TYPE, specify the type of Phase I & II Environmental work required.**

	PROJECT JURISDICTION: Environmental Submittals Required	
	LOCAL	NON-LOCAL/MIX
<b>Group A Project</b>	<input type="checkbox"/> CDOT QA to Make Assessment, either (i) Risk-Managed or (ii) CCDD Testing Recommended. Regulated Substances Screening along Project Corridor/ Area required for Phase I	<input type="checkbox"/> IDOT to Make Determination, either (i) Risk-Managed or (ii) Preliminary Environmental Site Assessment (PESA) and Preliminary Site Investigation (PSI) with CCDD LPC-663 Form
<b>Group B Project</b>	<input type="checkbox"/> Regulated Substances Screening along Project Corridor/ Area Required for Phase I; CCDD Sampling Packet with Soil Classifications per IDOT 669.05 specs in Phase II	<input type="checkbox"/> PESA + PSI + CCDD LPC-663 Form; Soil Classifications per IDOT 669.05 specs

**3B. ADDITIONAL.** Please add any additional relevant information for CDOT PM to know regarding project Regulated Substances requirements (if applicable).

Per Delta Engineering and EDI scope of work, a PESA report and a PSI + CCDD certification will be completed for each project.

**SECTION 4 : ACTION ITEMS based on PROJECT JURISDICTION and PROJECT TYPE**

- **Group A/LOCAL:** Request Regulated Substances Screening from CDOT RS QA, or Include Required Regulated Substances Screening in the Engineering RFP Solicitation.
- **Group B/LOCAL:** Request Regulated Substances Screening from CDOT RS QA, or Include Required Regulated Substances Screening **AND** CCDD Soil Testing in the Engineering RFP Solicitation.
- **Group A/NON-LOCAL/MIX:** Complete the "Environmental Survey Request Form (ESR)" and submit to the IDOT PM.
- **Group B/NON-LOCAL/MIX:** Complete the "Environmental Survey Request Form (ESR)" and submit to the IDOT PM.

**SECTION 1 : To be completed by the CDOT PM/Design Engineer:**

CDOT PM/Design Engineer Name	_____
CDOT Project Name	_____
CDOT Project No.	_____
Project Area/Corridor Limits	_____
Roadway Jurisdiction	_____
Funding Source(s)	_____

**To be completed by the Regulated Substances (RS) QA:**

QA Review Completed By	_____
QA Consultant	_____
Date Form Received from CDOT PM	_____
Date Form Returned to CDOT PM	_____
(Final Phase II Review)	_____

**LEGEND**

- To be completed by CDOT PM or Design Engineer
- To be completed by Regulated Substances (RS) QA

**\*\*CDOT PM to keep this form throughout the entirety of the Project, from initial setup all the way through to Construction Closeout\*\***

**SECTION 5 : PHASE I ENVIRONMENTAL SUBMITTALS -- QA REVIEW**

PESA and/or CCDD Due Diligence QA Review						
Environmental Consultant			Date of Initial QA Review			
Date of PESA/CCDD Report			Date of Final QA Review			
Review Item	Initial		Final		Comments	
	C	NC	C	NC	Initial Review	Final Review
1						
2						
3						
4						
5						
6						
7						

Regulated Substances Screening QA Review						
Environmental Consultant			Date of Initial QA Review			
Date of Regulated Substances Screening			Date of Final QA Review			
Review Item	Initial		Final		Comments	
	C	NC	C	NC		
1						
2						
3						
4						

**SECTION 6 : ACTION ITEMS based on PHASE I ENVIRONMENTAL SUBMITTALS REVIEW**

- **CDOT SW QA:** Return this form to PM/Consultant for inclusion into environmental submittals. Additional QA review requests from PM may be made with this same form.
- **PM/Consultant:** Once PHASE I ENVIRONMENTAL SUBMITTALS REVIEW is finalized, complete **SECTION 7** and return to RS QA for Phase II Regulated Substances Requirements.

**SECTION 1 : To be completed by the CDOT PM/Design Engineer:**

CDOT PM/Design Engineer Name	_____
CDOT Project Name	_____
CDOT Project No.	_____
Project Area/Corridor Limits	_____
Roadway Jurisdiction	_____
Funding Source(s)	_____

**To be completed by the Regulated Substances (RS) QA:**

QA Review Completed By	_____
QA Consultant	_____
Date Form Received from CDOT PM	_____
Date Form Returned to CDOT PM (Final Phase II Review)	_____

**LEGEND**

- To be completed by CDOT PM or Design Engineer
- To be completed by Regulated Substances (RS) QA

**\*\*CDOT PM to keep this form throughout the entirety of the Project, from initial setup all the way through to Construction Closeout\*\***

**SECTION 7 : CDOT PM/Design Engineer to answer the below Questions 7A through 7D and submit this form to CDOT SW QA for review.**

**7A. PROJECT CONTRACTING.** How will the project construction contracting be arranged? Please indicate below.

Project will be funded under existing contract. Please indicate project number and contractor information below.

Project Parent No. _____	Contractor Company Name _____
Project Child No. _____	Contact Name _____ Phone _____
	Contact Email _____

Project PS&Es will go out for public construction contract bid solicitations.

Other: \_\_\_\_\_

**7B. VOLUME OF EARTHWORK.** If estimates of approximate volumes of spoils to be generated for offsite disposal, this information will aid in assessing if CCDD testing should be pursued. Please indicate Earthwork Volume estimate below. *NOTE: typically 250 cubic yards (CY) with excavation depth > 4 feet is the MINIMUM volume of spoils to consider CCDD testing and CCDD/USFO disposal as economically viable . Provide relevant attachments as necessary.*

An Estimate of Earthwork Volume is known. **Approximate Total Volume:** \_\_\_\_\_ *Attach volume breakdown as needed.*

An Estimate of Earthwork Volume is **NOT** currently known.

Other: \_\_\_\_\_

**7C. EXCAVATION AREAS AND DEPTHS.** If this information is known and available, it will aid in placement of soil borings and depths of sampling intervals. Please indicate EXCAVATION AREAS and DEPTHS on an attached figure/map. *NOTE: a figure/map depicting "approximate" areas of planned excavation should be provided if available .*

<b>Yes</b>	<b>No</b>	
<input type="checkbox"/>	<input type="checkbox"/>	An Estimate of Excavation Depth (Maximum) is known. <b>Approximate Max Depth:</b> _____ <i>Attach supporting files as needed.</i>
<input type="checkbox"/>	<input type="checkbox"/>	Areas of Required Excavation are known and a figure/map is attached depicting those areas within the Project Corridor/Area. If <b>Yes</b> , please attach supporting files (figure/map) depicting these areas.

**7D. ADDITIONAL.** Please add any additional relevant information on the project here (if applicable). Additional information could include proposed letting date for solicitation of Contractor Bids, project submittal deadlines, or relevant information regarding Regulated Substances for the project. *Additional information can aid in assessing Regulated Substances requirements, but is not mandatory .*

**SECTION 8 : ACTION ITEMS based on PROJECT CONTRACTING, VOLUME OF EARTHWORK, and EXCAVATION AREAS AND DEPTHS.**

→ <b>PM/Consultant:</b> Return this form to SW QA. If Consultant has prepared an Environmental Scope or Sampling Plan, please send that to SW QA as well.
→ <b>CDOT SW QA:</b> Use SECTION 9 for review of any PHASE II ENVIRONMENTAL SUBMITTALS by PM/Consultant.

**SECTION 1 : To be completed by the CDOT PM/Design Engineer:**

**To be completed by the Regulated Substances (RS) QA:**

CDOT PM/Design Engineer Name \_\_\_\_\_  
 CDOT Project Name \_\_\_\_\_  
 CDOT Project No. \_\_\_\_\_  
 Project Area/Corridor Limits \_\_\_\_\_  
 Roadway Jurisdiction \_\_\_\_\_  
 Funding Source(s) \_\_\_\_\_

QA Review Completed By \_\_\_\_\_  
 QA Consultant \_\_\_\_\_  
 Date Form Received from CDOT PM \_\_\_\_\_  
 Date Form Returned to CDOT PM \_\_\_\_\_  
 (Final Phase II Review)

**LEGEND**

- To be completed by CDOT PM or Design Engineer
- To be completed by Regulated Substances (RS) QA

**\*\*CDOT PM to keep this form throughout the entirety of the Project, from initial setup all the way through to Construction Closeout\*\***

**SECTION 9 : PHASE II ENVIRONMENTAL SUBMITTALS -- QA REVIEW**

**Sampling/Boring Plan**

Environmental Consultant \_\_\_\_\_ Date of Initial QA Review \_\_\_\_\_  
 Date of Sampling/Boring Plan \_\_\_\_\_ Date of Final QA Review \_\_\_\_\_

Review Item	Initial		Final		Comments	
	C	NC	C	NC	Initial Review	Final Review
1 Preparation of Proposed Soil Boring Location Map with REC/PIP sites shown						
2 Preparation of Proposed Sampling Plan, with list of sample intervals, sampling parameters for laboratory analysis, and overall soil boring depth  <i>NOTE: CDOT QA assumes the proposed soil boring depth corresponds to and incorporates the maximum anticipated excavation depth for the project improvements.</i>						
3 Proposed Soil Boring Locations are planned within proposed project excavation areas requiring off-site disposal of project spoils and adjacent to nearest identified REC/PIP sites						
4 Frequency of Proposed Soil Borings are sufficient based on required REC/PIP coverage as stipulated in the Draft City of Chicago CCDD Sampling Policy document as maintained by the Department of Assets, Information, & Services (AIS)						

**PSI, CCDD, and/or LSI Report Findings**

Environmental Consultant \_\_\_\_\_ Date of Initial QA Review \_\_\_\_\_  
 Date of Phase II Report \_\_\_\_\_ Date of Final QA Review \_\_\_\_\_

Review Item	Initial		Final		Comments	
	C	NC	C	NC	Initial Review	Final Review
1 Soil sampling results presented in a report with appropriate tables, figures, and discussion with results compared to the IAC Part 742 TACO Remediation Objectives (Construction Worker exposure standards, at a minimum) and the CCDD Maximum Allowable Concentrations (MACs), as applicable. PID screening results are included for each sample interval screened.						
2 If CCDD certification is being sought for project spoils, an Uncontaminated Soil Certification Form LPC-663 (including all applicable attachments) has been provided and signed/stamped by a IL-licensed P.E. or P.G.						
3 Soil Classifications for handling and disposal are provided, based on the Section 669.05 from IDOT Standard Specifications for Road and Bridge Construction.						
4 Volumes of spoils are calculated per soil boring area and included in the report. <i>NOTE: Alternatively, the volumes can be calculated by the Design Engineer/Consultant/CDOT PM based on the identified and classified soil boring areas from the PSI/CCDD/LSI report. Volumes should be included for areas requiring excavation, with spoils destined for CCDD, Non-Special Waste, or Special Waste, or Hazardous Waste (per IDOT 669.05 Standard Specifications) disposal clearly identified.</i>						
5 Standard Pay Items for Handling/Disposal of Regulated Substances included in report findings for inclusion into project Plans, Specifications, & Estimates package.						

**SECTION 10 : ACTION ITEMS based on PHASE II ENVIRONMENTAL SUBMITTALS REVIEW.**

- **CDOT SW QA:** Submit this form as "Final" to the PM/Consultant, following completion of SECTION 9.
- **PM/Consultant:** Incorporate the Phase II Environmental Submittals and Regulated Substances Pay Items and Specifications into the PS&Es.

**SECTION 11 : PHASE III (CONSTRUCTION) ENVIRONMENTAL SUBMITTALS -- QA REVIEW**

**Regulated Substances Environmental Submittals**

	<u>Name/Company</u>	<u>Email</u>	<u>Phone</u>
CDOT PM:	_____	_____	_____
CDOT RE:	_____	_____	_____
Contractor:	_____	_____	_____
Environmental Consultant (QC):	_____	_____	_____

Review Item	Date Received from PM/RE	RE Provided Review & Comments? (Yes/No)	Date Approved & Submitted to PM/RE	Comments
1 Regulated Substances Pre-Construction Plan (RSPCP)				<b>Comment #1:</b> <b>Comment #2:</b> <b>Comment #3:</b>
2 On-Site Monitoring Report (OSMR)				
3 Regulated Substances Final Construction Report (RSFCR)				
4 Other (Indicate):				



## Special Waste Screening For Local Agency Projects

Route \_\_\_\_\_  
 Section \_\_\_\_\_  
 County \_\_\_\_\_  
 Local Agency \_\_\_\_\_

Date \_\_\_\_\_  
 Completed By \_\_\_\_\_  
 LA/Company \_\_\_\_\_

### Level 1 Screening Criteria

Will project involve?	<b>Yes</b>	<b>No</b>	<b>Don't Know</b>
1. Acquisition of additional right-of-way (ROW) or easements (temporary or permanent)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Railroad right-of-way (other than a single rail rural ROW with no maintenance facilities)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Excavation or subsurface utility relocation (see BLRS Manual Chapter 20 for definition of "excavation")	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If all responses are "No," the project has cleared Level 1 special waste screening; no further action is required except to complete the bottom of this page by indicating a PESA is not required. If any response is "Yes" or "Don't Know," continue to Level 2 Screening Criteria.

### Level 2 Screening Criteria

Does the project involve any of the following environmental conditions within the corresponding minimum search distance?

Environmental Conditions	Minimum Search Distance	Database Search		Reconnaissance Site	
		Yes	No	Yes	No
Industrial and/or commercial property	0.25 Mile			<input type="checkbox"/>	<input type="checkbox"/>
Other Environmental Conditions* (please see detail below)	Property and Adjoining Property			<input type="checkbox"/>	<input type="checkbox"/>
State UST <a href="http://webapps.sfm.illinois.gov/ustsearch/">http://webapps.sfm.illinois.gov/ustsearch/</a>	Property and Adjoining Property	<input type="checkbox"/>	<input type="checkbox"/>		
State LUST <a href="http://epadata.epa.state.il.us/land/ust">http://epadata.epa.state.il.us/land/ust</a>	0.50 Mile	<input type="checkbox"/>	<input type="checkbox"/>		
State Voluntary Cleanup, Brownfield, or Landfills <a href="http://epadata.epa.state.il.us/land/srp/">http://epadata.epa.state.il.us/land/srp/</a>	0.50 Mile	<input type="checkbox"/>	<input type="checkbox"/>		
Federal NPL: NPL delisted, CERCLIS; CERCLIS NFRAP <a href="https://cumulis.epa.gov/supercpad/CurSites/srchsites.cfm">https://cumulis.epa.gov/supercpad/CurSites/srchsites.cfm</a>	1.0 Mile, 0.5 Mile, 0.5 Mile, 0.5 Mile, respectively	<input type="checkbox"/>	<input type="checkbox"/>		
Federal RCRA CORRACTS facilities; RCRRA non-CORRACTS TSD facilities <a href="http://www.epa.gov/enviro/facts/rcrainfo/search.html">http://www.epa.gov/enviro/facts/rcrainfo/search.html</a>	1.0 Mile, 0.5 Mile, respectively	<input type="checkbox"/>	<input type="checkbox"/>		
Federal RCRA generators list <a href="http://www.epa.gov/enviro/facts/rcrainfo/search.html">http://www.epa.gov/enviro/facts/rcrainfo/search.html</a>	Property and Adjoining Property	<input type="checkbox"/>	<input type="checkbox"/>		
Federal RCRA Brownfield sites <a href="http://ofmpub.epa.gov/apex/cimc/f?p=cimc:68:0">http://ofmpub.epa.gov/apex/cimc/f?p=cimc:68:0</a>	0.50 Mile	<input type="checkbox"/>	<input type="checkbox"/>		
Federal ERNS System <a href="http://www.rtknet.org/db/erns">http://www.rtknet.org/db/erns</a>   <a href="http://www.nrc.uscg.mil/">http://www.nrc.uscg.mil/</a>	Property	<input type="checkbox"/>	<input type="checkbox"/>		

\*Other environmental conditions are identified through site reconnaissance and include situations that may negatively affect the property including the presence of, for example, illegal dumping, waste associated with "crack" or methamphetamine houses (i.e., discarded hazardous material on the outside of a property, battery piles, paint spills, abandoned transformers, surface staining, vegetative damage, etc.)

**NOTE: If all responses to Level 2 criteria are "No" then a PESA is not required.**

Is a Preliminary Environmental Site Assessment (PESA) is required?  Yes  No  
 PESA not required based on Level 1 or Level 2 Screening: Level 1 \_\_\_\_\_ Level 2 \_\_\_\_\_



## PESA RESPONSE INSTRUCTIONS

1. Provide the ISGS site number, maximum excavation depth, site name and/or address and the type of work being performed along with the estimated volume to be excavated and or filled. Please list all numbered and lettered sites from the latest PESA on the PESA Response form. For all sites listed on the PESA which no work is being performed please list on the PESA Response form "no work."
2. Indicate Yes or No whether or not acquisition of temporary easements, permanent easements, or ROW is occurring on this project.
3. ISGS sites that are not on state routes should be highlighted in gray. Please highlight the entire row.
4. One copy of an exhibit showing (highlighting) the ISGS site location with the extent of excavation to be performed at that parcel or location. Show the length, width, and depth to be excavated. Exhibits must be stationed same as the plan and profile sheets and show all proposed work. It is recommended to use the proposed contract plan sheets for the exhibits.
5. A copy of a location map similar to the ESR submittal listing major routes in each direction should be provided.
6. Provide an electronic copy of the location map, exhibits, and the PESA Response form.
7. For Local Roads projects please list the name of the lead agency and BLRS section number in the comments.
8. *If the project letting date changes, excavation quantities change, or excavation locations change please inform the IDOT contact immediately.*

## BLR&S - ESR SUBMITTALS

- 1 Copy of the ESR form. Please remember to submit via the Internet.
- 1 NWI map(s) of the project area (*Biological*)\*
- 1 USGS Topographic map(s) of the project area (*Biological/Cultural/Special Waste*)\*
- 1 Location Map(s) (7.5 Minute Quadrangle Map) (*Biological/Cultural/Special Waste*)\*
- 1 Copy of ground level photos of structures in the project area that are 50+ years old, if possible (*Cultural*)\*
- An electronic copy of All Exhibits and Shapefiles of ESR Aerial exhibit on CD. (*Shapefiles shall include one of the following; ESRI Shapefile/Geodatabase, Microstation DGN, AutoCad DWG/DXF, in decreasing order of Preference*) (*Special Waste*)\*
- 1 Copy of Clear Aerials (*Biological/Cultural/Special Waste*)\*
  - Aerial @ 1:200
  - Clear plans in addition for clarification – **Only if Necessary**
  - Existing ROW/Easements
  - Proposed ROW/Permanent Easements/Temporary Easements
  - Should have a beginning and an ending or clear match lines.
  - Should include all ROW which has not been specifically used for Transportation projects in the past, i.e. ComEd ROW, Property owned by the sponsor, etc.
  - Highlight all takings – including ROW, Easements
  - Environmental Survey Limits.
  - Proposed ROW should fall within the Environmental Survey Limits.
    - o This is only necessary if Proposed ROW is unknown at time of submittal
  - Existing ROW, Proposed ROW, Environmental Survey Limits should be clearly marked.
    - o Example: Existing ROW -----  
Proposed ROW \_\_\_\_\_
  - Provide a legend on the aerial
  - Dimensions, including the distance between the Existing and Proposed ROW
  - End of project limits in all directions
  - North Arrow
  - Page numbers
  - Match lines
  - Scale of exhibit
  - Label streets
  - Stationing or clearly identify ESR limit length
  - Do not cover vegetation with heavy labeling

### ESR Addenda

- All of the above
- Show Environmental Survey Limit of original and addendum in different line weights or colors. Provide a legend.

**\* For Special Waste submittals, provide 2 hard copies of the complete ESR package to the District. Aerial exhibits shall be 11 x 17 in size.**

**\*\* ESR's and Addenda failing to meet the above requirements will be returned for revisions before any processing will occur. Any questions call.**

### ESR Online Form

- Browse to the following website <http://apps.dot.illinois.gov/environment/envsrvyvrqst.asp>
- See below link for instructions and more information regarding submitting ESR and WIE forms. <http://www.idot.illinois.gov/doing-business/procurements/engineering-architectural-professional-services/Consultants-Resources/index>

### Wetlands

*On the transmittal indicate who will perform the wetland delineation.* If the consultant is performing the wetland delineation 1 copy of the WIE should be submitted along with the wetland delineation for submittal to Springfield. If the central office is performing the delineations and determines that wetlands are present in the project area, the WIE submittal will be requested.

If there is no wetlands in the vicinity based on NWI map & visual inspection, then please add a statement in “additional information” section of ESR to indicate that no wetland delineation will be performed.

### Submittal Instructions

**\*please keep electronic file sizes as small as possible due to storage and transfer limitations**

- Please use below file transfer site to send ESR form and all exhibits:  
<https://filet.illinois.gov/filet/pimupload.asp>
- Notify the District that the ESR submittal is uploaded to above link.

- ❑ On the transmittal, indicate whether BDE or the Consultant will perform wetland delineation. Threatened and endangered species review will be done by BDE.

**Additional Requirements**

- ❑ All pictures provided with the ESR submittal should be labeled.
- ❑ A map with the location of the pictures would be helpful.
- ❑ *The consultant should know if there is 4(f), 6(f), or Historic Districts within the limit of the project.*

The consultant will be notified of ESRs and addenda failing to meet the above criteria and revisions must be made before any processing will occur.

View up to date information on how Illinois is handling the Coronavirus Disease 2019 (COVID-19) from the Illinois Department of Public Health (<http://www.dph.illinois.gov/topics-services/diseases-and-conditions/diseases-a-z-list/coronavirus>) ✕

## ENVIRONMENTAL SURVEY REQUEST

*Prior to preparing and submitting this ESR, the user should carefully read the instructions (<http://apps.dot.illinois.gov/environment/esrhome.html>), and associated IDOT policy (BDE Manual Chapter 27 & Local Roads Manual Chapter 20).*

Submittal of the ESR initiates the Phase I environmental survey process, which takes a minimum of 6 months to complete. Results of the environmental surveys must be completed in advance of the desired construction letting.

All fields must be completed unless the information is unavailable at the time of submittal or not applicable to the project. If the District and Requesting Entity fields are filled out incorrectly, the ESR will not be submitted to the appropriate person.

**A. PROJECT INFORMATION:**

- Biological
- Cultural
- State ROW Special Waste

Submittal Date:  (mm/dd/yyyy)

Requesting Entity:

Contract #:

Job No.:  -  -

PPS Project No.:

Section No.:

District:

County(ies):

Route:

Marked:

Street:

Project Length:  Miles

Municipality(ies):

Township-Range-Section:

Quadrangle:

From To (At):

Survey Completion Target Date:  (mm/dd/yyyy)  
*(Six months minimum required)*

Anticipated Design Approval Date:  (mm/dd/yyyy)

Anticipated NEPA Processing:

**B. REASON(S) FOR SUBMITTAL:** (Check all that apply; includes Special Waste Level 1 Screening Criteria)  
Survey Types: B = Biological; C = Cultural; SW = Special Waste

B,C  Involves acquisition of additional ROW or temporary or permanent easements.  acres

SW  Crosses or involves RR Row on a state-maintained route.

B,C

Requires in-stream work (e.g., drainage structure runaround). Stream Name:

Potential to affect a historic district or historic property.

Involves replacement or rehabilitation of a bridge/culvert 40 years old or older.

SW  Involves acquisition of State ROW; involves excavation on State ROW, or involves subsurface utility relocation on State ROW.

Other

Biological

Cultural

State ROW Special Waste (ensure these checked boxes match with those above)

**C. PROJECT DESCRIPTION:** [255 character limit. If needed, use "Addl. Info" Memo to expand on this description.]

Proposed Work:  Roadway  Bridge  Railroad  Airport  Other

Tree Removal?

Number:  or  Acres

Existing Bridge(s) Structure Number:  - ,  - ,  -

Historic District Involved?

Historic Buildings Involved?

Section 4(f) Lands Involved?

Section 6(f) Lands Involved?

**D. FUNDING & PERMITTING:**

Federal  State  TBP  MFT  Local Non-MFT  Other  (Identify)

404 Permit Required

**E. PROJECT CONTACT PERSON**

Name:

Telephone #: (  )  -  ext.

Title/Organization:

E-Mail:

**ADDITIONAL INFORMATION**

Memo By:

**APPENDIX C**

**REGULATED SUBSTANCES CLASSIFICATION AND DISCUSSION ON REGULATIONS**

## APPENDIX C

### REGULATED SUBSTANCES CLASSIFICATION AND DISCUSSION ON REGULATIONS

#### LIST OF ACRONYMS

CCDD	Clean Construction or Demolition Debris
IAC	Illinois Administrative Code
LDR	Land Disposal Restrictions
LUST	Leaking Underground Storage Tank
MAC	Maximum Allowable Concentration
PIP	Potentially Impacted Property
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
TCLP	Toxicity Characteristic Leaching Procedure
USFO	Uncontaminated Soil Fill Operation

#### Waste Characterization Background and Regulatory Information

Material generated during project construction is classified according to State and Federal regulations. Federal regulations define and regulate hazardous waste, while State regulations define and regulate other types of solid waste. Federal regulations on hazardous waste were adopted in section 3001 through 3006 of the Resource Conservation and Recovery Act (RCRA) of 1976. Hazardous waste is characterized as “a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed” (42 USC § 6903(5)). These regulations have also been adopted into Illinois law.

Hazardous wastes are identified as either *listed wastes* from common manufacturing and industrial processes and chemicals or *characteristic wastes* that exhibit one or more of the following properties: ignitability, corrosivity, reactivity, or toxicity. Toxicity includes testing for the 8 RCRA metals and 25 organic compounds and comparing the results to the criteria. Transportation projects are most likely to encounter characteristic hazardous wastes as knowledge of origin is a key consideration for listed wastes. In addition, landfill characterization testing is designed to determine if hazardous wastes are present. The four properties that indicate hazardous waste may be present are defined below:

- **Ignitability** – Liquids with flash points below 60 °C (140 °F), non-liquids that cause fire through specific conditions, and ignitable compressed gases and oxidizers.
- **Corrosivity** – Aqueous wastes with a pH of less than or equal to 2, a pH greater than or equal to 12.5, or based on the liquids ability to corrode steel.
- **Reactivity** – Wastes unstable under normal conditions, may react with water, may give off toxic gases, and may be capable of detonation or explosion under normal conditions or when heated.
- **Toxicity** – Wastes that are hazardous due to the toxicity characteristic are harmful when ingested or absorbed. Toxic wastes present a concern as they may be able to leach from waste and pollute

groundwater. The toxicity of a waste is determined by the Toxicity Characteristic Leaching Procedure (TCLP).

Also, note the reactivity test is more subjective and generally focuses on the presence of (reactive) sulfide and cyanide. A table containing the TCLP thresholds for hazardous waste are included in **Appendix D**.

The State of Illinois has additional classifications for material generated for disposal: special waste, non-special waste, and uncontaminated soil. In Illinois, special waste covers many types of waste and is defined in 415 ILCS 5/3.475 as potentially infectious medical waste, hazardous waste, industrial process waste or pollution control waste (with certain exceptions). For the purposes of spoils characterization and disposal, any material that meets the definition of hazardous waste should be handled as a hazardous waste in accordance with Federal and State laws.

Material generated for disposal that does not meet the requirements to be considered “uncontaminated soil” can be considered “pollution control” waste. Pollution control waste “means any liquid, solid, semi-solid or gaseous waste generated as a direct or indirect result of the removal of contaminants from the air, water or land, and which pose a present or potential threat to human health or to the environment or with inherent properties which make the disposal of such waste in a landfill difficult to manage by normal means.” (415 ILCS 5/3.335).

If material is not hazardous waste and is either an industrial process waste or pollution control waste, it is possible for it to be classified as “non-special waste” if it meets certain requirements:

- It is not a potentially infectious medical waste
- It is not a hazardous waste as defined in 40 CFR 261 or in 35 IAC 722.111
- It is not a liquid
- It is not an asbestos waste regulated under the Clean Air Act
- It is not a regulated PCB waste 40 CFR 761
- It is not a delisted hazardous waste or a decharacterized hazardous waste subject to Land Disposal Restriction (LDR) requirements under 35 IAC 728.107
- It is not waste resulting from shredding recyclable material

If the material generated achieves these requirements, a non-special waste certification statement is required. There is not a specific form or format required for non-special waste statements; however, landfill disposal documents will typically have a prepared form for non-special waste certification as part of or as an attachment to the soil disposal profile.

Material that is not hazardous waste and does not meet the requirements for uncontaminated soil certification on transportation projects is typically handled as non-special waste. The main difference in material handling between special waste and non-special waste is documentation requirements for handling and transporting special waste. Special wastes require Special Waste Hauler Permits and Manifests. Regulations concerning the handling of special waste can be found in 35 Illinois Administrative Code (IAC) Section 808 and 809.

Material may also be classified as “uncontaminated soil”, which allows for disposal at permitted Clean Construction or Demolition Debris (CCDD) or Uncontaminated Soil Fill Operation (USFO) facilities. To be considered “uncontaminated soil” material must achieve maximum allowable concentration (MAC) values of certain compounds. The MAC values are identified in 35 IAC Section 1100 Subpart F and included in **Appendix D** for reference. On July 30, 2010, Public Act 96-1416 became effective, which significantly

**Appendix C – Regulated Substances Classification and Discussion on Regulations**  
Chicago Department of Transportation

broadened the regulatory oversight on the use of CCDD and uncontaminated soil used as fill. The final regulations, by statute, became effective on August 27, 2012. These regulations include updated MACs of chemical constituents in uncontaminated soil for CCDD disposal and a soil pH requirement for disposal at a CCDD or soil-only facility. Part 1100, 35 IAC has adopted the term Potentially Impacted Property (PIP) when assigning risk to sites. The PIP sites are essentially the same as sites with Recognized Environmental Conditions (REC) as defined by ASTM Standard E 1527-21.

To meet the requirements for CCDD disposal, the project corridor should be screened for PIPs. If no PIPs are identified, then the material may be certified with an Owner/Operator Signed LPC-662 Form<sup>1</sup> if material from the project meets the soil pH requirement. If PIPs are identified, then additional investigation is necessary and certification by a Licensed Professional Engineer or Professional Geologist under the LPC-663 form is required.

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<sup>1</sup> Please note, the *Draft* CCDD Sampling Policy document for the City of Chicago restricts the submittal of an LPC-662 form on any City soil taken for off-site disposal. Therefore, for any project in which City soil is generated for off-site disposal, only an LPC-663 with laboratory analytical testing results is considered acceptable. Additionally, based on the historical consideration of urban fill material on the majority of CDOT roadways and Right of Way (ROW), the urban fill material is considered a PIP/REC.

**APPENDIX D**

TOXICITY CHARACTERISTIC TABLE (HAZARDOUS WASTE) AND MAC TABLE (CCDD)

**§261.24 Toxicity characteristic.**

(a) A solid waste (except manufactured gas plant waste) exhibits the characteristic of toxicity if, using the Toxicity Characteristic Leaching Procedure, test Method 1311 in “Test Methods for Evaluating Solid Waste, Physical/Chemical Methods,” EPA Publication SW-846, as incorporated by reference in §260.11 of this chapter, the extract from a representative sample of the waste contains any of the contaminants listed in table 1 at the concentration equal to or greater than the respective value given in that table. Where the waste contains less than 0.5 percent filterable solids, the waste itself, after filtering using the methodology outlined in Method 1311, is considered to be the extract for the purpose of this section.

(b) A solid waste that exhibits the characteristic of toxicity has the EPA Hazardous Waste Number specified in Table 1 which corresponds to the toxic contaminant causing it to be hazardous.

TABLE 1—MAXIMUM CONCENTRATION OF CONTAMINANTS FOR THE TOXICITY CHARACTERISTIC

<b>EPA HW No.<sup>1</sup></b>	<b>Contaminant</b>	<b>CAS No.<sup>2</sup></b>	<b>Regulatory Level (mg/L)</b>
D004	Arsenic	7440-38-2	5.0
D005	Barium	7440-39-3	100.0
D018	Benzene	71-43-2	0.5
D006	Cadmium	7440-43-9	1.0
D019	Carbon tetrachloride	56-23-5	0.5
D020	Chlordane	57-74-9	0.03
D021	Chlorobenzene	108-90-7	100.0
D022	Chloroform	67-66-3	6.0
D007	Chromium	7440-47-3	5.0
D023	o-Cresol	95-48-7	<sup>4</sup> 200.0
D024	m-Cresol	108-39-4	<sup>4</sup> 200.0
D025	p-Cresol	106-44-5	<sup>4</sup> 200.0
D026	Cresol		<sup>4</sup> 200.0
D016	2,4-D	94-75-7	10.0
D027	1,4-Dichlorobenzene	106-46-7	7.5
D028	1,2-Dichloroethane	107-06-2	0.5
D029	1,1-Dichloroethylene	75-35-4	0.7
D030	2,4-Dinitrotoluene	121-14-2	<sup>3</sup> 0.13
D012	Endrin	72-20-8	0.02

D031	Heptachlor (and its epoxide)	76-44-8	0.008
D032	Hexachlorobenzene	118-74-1	<sup>3</sup> 0.13
D033	Hexachlorobutadiene	87-68-3	0.5
D034	Hexachloroethane	67-72-1	3.0
D008	Lead	7439-92-1	5.0
D013	Lindane	58-89-9	0.4
D009	Mercury	7439-97-6	0.2
D014	Methoxychlor	72-43-5	10.0
D035	Methyl ethyl ketone	78-93-3	200.0
D036	Nitrobenzene	98-95-3	2.0
D037	Pentachlorophenol	87-86-5	100.0
D038	Pyridine	110-86-1	<sup>3</sup> 5.0
D010	Selenium	7782-49-2	1.0
D011	Silver	7440-22-4	5.0
D039	Tetrachloroethylene	127-18-4	0.7
D015	Toxaphene	8001-35-2	0.5
D040	Trichloroethylene	79-01-6	0.5
D041	2,4,5-Trichlorophenol	95-95-4	400.0
D042	2,4,6-Trichlorophenol	88-06-2	2.0
D017	2,4,5-TP (Silvex)	93-72-1	1.0
D043	Vinyl chloride	75-01-4	0.2

<sup>1</sup>Hazardous waste number.

<sup>2</sup>Chemical abstracts service number.

<sup>3</sup>Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.

<sup>4</sup>If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/l.

[55 FR 11862, Mar. 29, 1990, as amended at 55 FR 22684, June 1, 1990; 55 FR 26987, June 29, 1990; 58 FR 46049, Aug. 31, 1993; 67 FR 11254, Mar. 13, 2002; 71 FR 40259, July 14, 2006]

**Summary of  
Maximum Allowable Concentrations of Chemical Constituents  
In Uncontaminated Soil Used as Fill Material  
At Regulated Fill Operations  
(35 Ill. Adm. Code 1100.Subpart F)**

Chemical Name	Maximum Allowable Concentration <sup>a</sup>
Acenaphthene	570 <sup>b</sup> mg/kg
Acetone	25 <sup>b</sup> mg/kg
Alachlor	0.04 <sup>b</sup> mg/kg
Aldicarb	0.013 <sup>b,l</sup> mg/kg
Aldrin	0.94 <sup>c</sup> mg/kg
Anthracene	12,000 <sup>b</sup> mg/kg
Antimony	5 <sup>d,m</sup> mg/kg
Arsenic:	
within a MSA county	13.0 <sup>e</sup> mg/kg
within a non-MSA county	11.3 <sup>e</sup> mg/kg
Atrazine	0.066 <sup>b</sup> mg/kg
Barium	1,500 <sup>d,m</sup> mg/kg
Benzene	0.03 <sup>b</sup> mg/kg
Benzo(a)anthracene:	
within Chicago corporate limits	1.1 <sup>f</sup> mg/kg
within a populated area in a MSA excluding Chicago	1.8 <sup>f</sup> mg/kg
within a populated area in a non-MSA county or outside a populated area	0.9 <sup>g</sup> mg/kg
Benzo(b)fluoranthene:	
within Chicago corporate limits	1.5 <sup>f</sup> mg/kg
within a populated area in a MSA excluding Chicago	2.1 <sup>f</sup> mg/kg
within a populated area in a non-MSA county or outside a populated area	0.9 <sup>g</sup> mg/kg
Benzo(k)fluoranthene	9 <sup>g</sup> mg/kg

Chemical Name	Maximum Allowable Concentration <sup>a</sup>
Benzoic Acid	400 <sup>d</sup> mg/kg
Benzo(a)pyrene:	
within Chicago corporate limits	1.3 <sup>f</sup> mg/kg
within a populated area in a MSA excluding Chicago	2.1 <sup>f</sup> mg/kg
within a populated area in a non-MSA county	0.98 <sup>f</sup> mg/kg
outside a populated area	0.09 <sup>g</sup> mg/kg
Beryllium	22 <sup>d,m</sup> mg/kg
Bis(2-chloroethyl)ether	0.66 <sup>c</sup> mg/kg
Bis(2-ethylhexyl)phthalate	46 <sup>g</sup> mg/kg
Boron	40 <sup>h,m</sup> mg/kg
Bromodichloromethane (Dichlorobromomethane)	0.6 <sup>b</sup> mg/kg
Bromoform	0.8 <sup>b</sup> mg/kg
Butanol	17 <sup>b</sup> mg/kg
Butyl benzyl phthalate	930 <sup>i</sup> mg/kg
Cadmium	5.2 <sup>d,m</sup> mg/kg
Calcium	... <sup>j</sup>
Carbazole	0.6 <sup>b</sup> mg/kg
Carbofuran	0.22 <sup>b,l</sup> mg/kg
Carbon disulfide	9 <sup>g</sup> mg/kg
Carbon tetrachloride	0.07 <sup>b</sup> mg/kg
Chlordane	1.8 <sup>g</sup> mg/kg
Chloride	4,000 <sup>h,m</sup> mg/kg
4-Chloroaniline ( <i>p</i> -Chloroaniline)	0.7 <sup>b</sup> mg/kg
Chlorobenzene (Monochlorobenzene)	1 <sup>b</sup> mg/kg
Chlorodibromomethane (Dibromochloromethane)	0.4 <sup>b</sup> mg/kg
Chloroform	0.3 <sup>g</sup> mg/kg
2-Chlorophenol	1.5 <sup>d</sup> mg/kg
Chromium, total	21 <sup>d,m</sup> mg/kg
Chrysene	88 <sup>g</sup> mg/kg
Cobalt	20 <sup>h,m</sup> mg/kg
Copper	2,900 <sup>g</sup> mg/kg

Chemical Name	Maximum Allowable Concentration <sup>a</sup>
Cyanide	40 <sup>d,m</sup> mg/kg
2,4-D	1.5 <sup>b</sup> mg/kg
Dalapon	0.85 <sup>b</sup> mg/kg
DDD	3 <sup>g</sup> mg/kg
DDE	2 <sup>g</sup> mg/kg
DDT	2 <sup>g</sup> mg/kg
Dibenzo( <i>a,h</i> )anthracene:	
within Chicago corporate limits	0.20 <sup>f</sup> mg/kg
within a populated area in a MSA excluding Chicago	0.42 <sup>f</sup> mg/kg
within a populated area in a non-MSA county	0.15 <sup>f</sup> mg/kg
outside a populated area	0.09 <sup>g</sup> mg/kg
1,2-Dibromo-3-chloropropane	0.002 <sup>b</sup> mg/kg
1,2-Dibromoethane (Ethylene dibromide)	0.005 <sup>c</sup> mg/kg
Di- <i>n</i> -butyl phthalate	2,300 <sup>i</sup> mg/kg
1,2-Dichlorobenzene ( <i>o</i> – Dichlorobenzene)	17 <sup>b</sup> mg/kg
1,4-Dichlorobenzene ( <i>p</i> – Dichlorobenzene)	2 <sup>b</sup> mg/kg
3,3'-Dichlorobenzidine	1.3 <sup>c</sup> mg/kg
1,1-Dichloroethane	23 <sup>b</sup> mg/kg
1,2-Dichloroethane (Ethylene dichloride)	0.02 <sup>b</sup> mg/kg
1,1-Dichloroethylene	0.06 <sup>b</sup> mg/kg
<i>cis</i> -1,2-Dichloroethylene	0.4 <sup>b</sup> mg/kg
<i>trans</i> -1,2-Dichloroethylene	0.7 <sup>b</sup> mg/kg
2,4-Dichlorophenol	0.48 <sup>d</sup> mg/kg
1,2-Dichloropropane	0.03 <sup>b</sup> mg/kg
1,3-Dichloropropene (1,3-Dichloropropylene, <i>cis</i> + <i>trans</i> )	0.005 <sup>c</sup> mg/kg
Dieldrin	0.603 <sup>c</sup> mg/kg
Diethyl phthalate	470 <sup>b</sup> mg/kg
2,4-Dimethylphenol	9 <sup>b</sup> mg/kg
2,4-Dinitrophenol	3.3 <sup>c</sup> mg/kg
2,4-Dinitrotoluene	0.25 <sup>c</sup> mg/kg
2,6-Dinitrotoluene	0.26 <sup>c</sup> mg/kg

Chemical Name	Maximum Allowable Concentration <sup>a</sup>
Dinoseb	0.25 <sup>d</sup> mg/kg
Di- <i>n</i> -octyl phthalate	1,600 <sup>g</sup> mg/kg
Endosulfan	18 <sup>b</sup> mg/kg
Endothall	0.4 <sup>b,l</sup> mg/kg
Endrin	1 <sup>b</sup> mg/kg
Ethylbenzene	13 <sup>b</sup> mg/kg
Fluoranthene	3,100 <sup>g</sup> mg/kg
Fluorene	560 <sup>b</sup> mg/kg
Fluoride	80 <sup>h,m</sup> mg/kg
Heptachlor	0.871 <sup>c</sup> mg/kg
Heptachlor epoxide	1.005 <sup>c</sup> mg/kg
Hexachlorobenzene	0.4 <sup>g</sup> mg/kg
<i>Alpha</i> -HCH ( <i>alpha</i> -BHC)	0.0074 <sup>c</sup> mg/kg
<i>Gamma</i> -HCH (Lindane)	0.009 <sup>b</sup> mg/kg
Hexachlorocyclopentadiene	1.1 <sup>g</sup> mg/kg
Hexachloroethane	0.5 <sup>b</sup> mg/kg
Indeno(1,2,3- <i>c,d</i> )pyrene:	
within a populated area in a MSA excluding Chicago	1.6 <sup>f</sup> mg/kg
within Chicago corporate limits or within a populated area in a non-MSA county or outside a populated area	0.9 <sup>g</sup> mg/kg
Iron:	
within a MSA county	15,900 <sup>e,m</sup> mg/kg
within a non-MSA county	15,000 <sup>e,m</sup> mg/kg
Isophorone	8 <sup>b</sup> mg/kg
Lead	107 <sup>d,m</sup> mg/kg
Magnesium	325,000 <sup>g</sup> mg/kg
Manganese:	
within a MSA county	636 <sup>e,m</sup> mg/kg
within a non-MSA county	630 <sup>e,m</sup> mg/kg
Mercury:	
elemental	0.1 <sup>g,n</sup> mg/kg

Chemical Name	Maximum Allowable Concentration <sup>a</sup>
Mercury:	
ionic	0.89 <sup>d,m,n</sup> mg/kg
Methoxychlor	160 <sup>b</sup> mg/kg
Methyl bromide (Bromomethane)	0.2 <sup>b</sup> mg/kg
Methyl tertiary-butyl ether	0.32 <sup>b</sup> mg/kg
Methylene chloride (Dichloromethane)	0.02 <sup>b</sup> mg/kg
2-Methylphenol ( <i>o</i> – Cresol)	15 <sup>b</sup> mg/kg
Naphthalene	1.8 <sup>g</sup> mg/kg
Nickel	100 <sup>d,m</sup> mg/kg
Nitrate as N	200 <sup>h,m</sup> mg/kg
Nitrobenzene	0.26 <sup>c</sup> mg/kg
<i>N</i> -Nitrosodiphenylamine	1 <sup>b</sup> mg/kg
<i>N</i> -Nitrosodi- <i>n</i> -propylamine	0.0018 <sup>c</sup> mg/kg
Pentachlorophenol	0.02 <sup>d</sup> mg/kg
Phenol	100 <sup>b</sup> mg/kg
Phosphorus	... <sup>j</sup>
Picloram	2 <sup>b</sup> mg/kg
Polychlorinated biphenyls (PCBs)	1 <sup>k</sup> mg/kg
Potassium	... <sup>j</sup>
Pyrene	2,300 <sup>g</sup> mg/kg
Selenium	1.3 <sup>d,m</sup> mg/kg
Silver	4.4 <sup>d,m</sup> mg/kg
Simazine	0.04 <sup>b</sup> mg/kg
Sodium	... <sup>j</sup>
Styrene	4 <sup>b</sup> mg/kg
Sulfate	8,000 <sup>h,m</sup> mg/kg
Tetrachloroethylene (Perchloroethylene)	0.06 <sup>b</sup> mg/kg
Thallium	2.6 <sup>d,m</sup> mg/kg
Toluene	12 <sup>b</sup> mg/kg
Toxaphene	0.6 <sup>g</sup> mg/kg
2,4,5-TP (Silvex)	11 <sup>d</sup> mg/kg

Chemical Name	Maximum Allowable Concentration <sup>a</sup>
1,2,4-Trichlorobenzene	5 <sup>b</sup> mg/kg
1,1,1-Trichloroethane	2 <sup>b</sup> mg/kg
1,1,2-Trichloroethane	0.02 <sup>b</sup> mg/kg
Trichloroethylene	0.06 <sup>b</sup> mg/kg
2,4,5-Trichlorophenol	26 <sup>d</sup> mg/kg
2,4,6-Trichlorophenol	0.66 <sup>c</sup> mg/kg
Vanadium	550 <sup>g</sup> mg/kg
Vinyl acetate	10 <sup>g</sup> mg/kg
Vinyl chloride	0.01 <sup>b</sup> mg/kg
m-Xylene	6.4 <sup>g</sup> mg/kg
o-Xylene	6.5 <sup>g</sup> mg/kg
p-Xylene	5.9 <sup>g</sup> mg/kg
Xylenes (total)	5.6 <sup>g</sup> mg/kg
Zinc	5,100 <sup>d,m</sup> mg/kg

<sup>a</sup> = Concentrations are the results after using methods described in 35 IAC 1100.Subpart F for determining the Maximum Allowable Concentrations of chemical constituents in uncontaminated soils used as fill material at regulated fill operations.

<sup>b</sup> = Value is the TACO Class I Soil Component of the Groundwater Ingestion Exposure Route concentration (35 IAC 742.Appendix B, Tables A and B).

<sup>c</sup> = Value is the TACO-defined Acceptable Detection Limit (ADL) for the chemical in soil.

<sup>d</sup> = Value is the lowest TACO Class I concentration between column range 6.25 to 6.64 and column range 8.75 to 9.0 from the pH-Specific Soil Remediation Objectives table for Inorganic and Ionizing Organic Chemicals for the Soil Component of the Groundwater Ingestion Route (35 IAC 742.Appendix B, Table C). (See 35 IAC 1100.605(a)(2); 1100.605(a)(3)(A)).

<sup>e</sup> = Value is the location-specific allowable concentration based upon TACO-defined background values for inorganic chemicals (35 IAC 742.Appendix A, Table G). The location of the fill site determines the allowable concentration. Two background locations are defined; one for counties that are designated as Metropolitan Statistical Areas (MSA) (see Board Note, 35 IAC 742.Appendix A, Table G), the other for counties designated as a non-MSA.

<sup>f</sup> = Value is the location-specific allowable concentration based upon TACO-defined background values for polynuclear aromatic hydrocarbon chemicals (35 IAC 742.Appendix A, Table H). The location of the fill site determines the allowable concentration. Three background locations are defined; one for areas within the corporate limits of the City of Chicago, another for populated areas (defined at 35 IAC

742.200) in counties that are designated as Metropolitan Statistical Areas (MSA) (see Board Note, 35 IAC 742.Appendix A, Table G) excluding the City of Chicago, and the third for populated areas within non-MSA counties. No background concentrations have been defined for locations outside of populated areas; therefore, the maximum allowable concentrations in these locations are determined using 35 IAC 1100.Subpart F.

<sup>g</sup> = Value is the lowest TACO Soil Remediation Objective by the ingestion or inhalation routes of exposure for the Residential and Construction Worker receptors (35 IAC 742.Appendix B, Tables A and B). When applicable, definitions for “MSA” and “populated area” are presented in 35 IAC 742.Appendix A, Table H and 35 IAC 742.200, respectively.

<sup>h</sup> = Value is the TACO Class I Soil Component of the Groundwater Ingestion Exposure Route value multiplied by 20.

<sup>i</sup> = Soil saturation concentration (C<sub>sat</sub>).

<sup>j</sup> = This chemical is of no concern for soil ingestion and no data are available to assess other routes of exposure. There is no soil concentration limit established for this constituent.

<sup>k</sup> = Value for PCBs is the highest allowable concentration requiring no controls based on USEPA TSCA (40 CFR 761) policy.

<sup>l</sup> = SW-846 methods may not support analytical detection at the concentration specified. Modified or alternative methods may be required to achieve the lowest practical detection level possible.

<sup>m</sup> = As an alternative to the subject maximum allowable concentration value, compliance verification may be determined by comparing soil sample extraction results (TCLP/SPLP) for this constituent to the respective TACO Class I Soil Component of the Groundwater Ingestion Exposure Route objective (35 Ill. Admin. Code 742.Appendix B, Table A). (See 35 IAC 1100.610(b)(1)(B); 1100.610(b)(3)(C)).

<sup>n</sup> = Elemental mercury is an inhalation hazard and is evaluated based upon the IRIS inhalation reference concentration for elemental mercury (CAS No. 7439-97-6). All other forms of mercury are evaluated using the IRIS oral reference dose for mercuric chloride (CAS No. 7487-94-7). The inhalation MAC only applies where elemental mercury is a contaminant of concern; the MAC for ionic mercury applies everywhere.



# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

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JB PRITZKER, GOVERNOR

JOHN J. KIM, DIRECTOR

## Corrected City of Chicago Polynuclear Aromatic Hydrocarbon Background Concentrations

35 Illinois Administrative Code Part 742 (“Part 742”), Tiered Approach to Corrective Action Objectives (“TACO”) provides procedures for determining area background concentrations when developing remediation objectives (ROs) for contaminants of concern at sites undergoing remediation pursuant to Part 742. Specifically, Part 742.405(b)(2) allows area background concentrations to be determined using an Agency approved statistically valid approach appropriate for the characteristics of the data set. Part 742.415(b) allows the use of area background concentrations developed under Part 742.405(b):

- 1) To support a request to exclude a chemical as a contaminant of concern from further consideration for remediation at a site due to its presence as a result of background conditions; or
- 2) As a remediation objective for a contaminant of concern at a site in lieu of an objective developed pursuant to the other procedures of this Part.

In 2006, pursuant to Part 742.405(b)(2), Illinois EPA proposed an area background concentration table for polynuclear aromatic hydrocarbons (PAHs) in Part 742 amendments to the Illinois Pollution Control Board (IPCB), stating in Illinois EPA testimony the PAH area background concentrations are set at the 95<sup>th</sup> parametric percentile. IPCB finalized the Part 742 amendments in 2007 and added the PAH background concentration table as Appendix A, Table H. The table lists area background concentrations for sites within the corporate limits of Chicago, metropolitan areas outside the corporate limits of Chicago, and non-metropolitan areas. Illinois EPA used two studies, one study collected soil samples to determine background concentrations only within the corporate limits of Chicago and a second study collected soil samples from areas outside of the corporate limits of Chicago. An Illinois EPA contractor conducted the statistical analysis for both studies and provided Illinois EPA with the 95<sup>th</sup> parametric percentile concentrations listed in Part 742 Appendix A, Table H.

Follow-up statistical analysis conducted by the same contractor identified the background concentrations listed in Part 742, Appendix A, Table H developed from the City of Chicago study were incorrectly set at the 60<sup>th</sup> parametric percentile instead of the 95<sup>th</sup> parametric percentile. As a result, the background concentrations currently listed in the City of Chicago column do not reflect the correct, statistically valid concentrations recommended by Illinois EPA. The table below lists the corrected City of Chicago background concentrations for PAHs set at the 95<sup>th</sup> parametric percentile.

The corrected City of Chicago background concentrations may be proposed to exclude a contaminant of concern or set remediation objectives, pursuant to Part 742.415(b) as a Tier 3 evaluation under Part 742.920: Impractical Remediation. The Tier 3 proposal should discuss the impracticability of remediating to levels below area background and should also note that the values below have been approved by the Illinois EPA as meeting the requirements of Part 742.405(b)(2).

2125 S. First Street, Champaign, IL 61820 (217) 278-5800  
1101 Eastport Plaza Dr., Suite 100, Collinsville, IL 62234 (618) 346-5120  
9511 Harrison Street, Des Plaines, IL 60016 (847) 294-4000  
595 S. State Street, Elgin, IL 60123 (847) 608-3131

2309 W. Main Street, Suite 116, Marion, IL 62959 (618) 993-7200  
412 SW Washington Street, Suite D, Peoria, IL 61602 (309) 671-3022  
4302 N. Main Street, Rockford, IL 61103 (815) 987-7760

Chemical Name	Published Table H Background for Chicago <sup>a</sup>  (mg/kg)	Corrected Table H Background (at 95 <sup>th</sup> Percentile) for Chicago <sup>a</sup>  (mg/kg)
Acenaphthene	0.09	0.939
Acenaphthylene	0.03	0.253
Anthracene	0.25	2.620
Benzo(a)anthracene	1.1	10.9
Benzo(a)pyrene	1.3	11.4
Benzo(b)fluoranthene	1.5	13.1
Benzo(g,h,i)perylene	0.68	4.44
Benzo(k)fluoranthene	0.99	8.14
Chrysene	1.2	10.6
Dibenzo(a,h)anthracene	0.20	1.03
Fluoranthene	2.7	27.6
Fluorene	0.10	1.11
Indeno(1,2,3-c,d)pyrene	0.86	5.77
Naphthalene	0.04	0.258
Phenanthrene	1.3	15.3
Pyrene	1.9	17.9
<sup>a</sup> Chicago means within the corporate limits of the City of Chicago.		

**APPENDIX E**

**CHECKLIST OF REGULATED SUBSTANCES ACTION ITEMS FOR CDOT STAFF**

**APPENDIX E - CHECKLIST FOR CDOT STAFF AND QA  
REGULATED SUBSTANCES PROCESS**

To be completed by CDOT PM or Design Engineer

To be completed by Regulated Substances (RS) QA

Rev 05/24/2023

Regulated Substances Flow Chart

Check Here if Complete	QA Review Form Section	Flow Chart Number	Name	Description
<i>Phase I</i>				
<input type="checkbox"/>	2A.	0.01	Determination of Project Jurisdiction	Has the Project jurisdiction been determined (State, Local, or mix)?
<input type="checkbox"/>	2B. & 2C.	L1.01	TABLE 1 - CDOT Project Types and Regulated Substances Requirements	Review TABLE 1 for consideration of: Project Type, Generation of Spoils, Excavation Depth, Required Action for Regulated Substances and Eligibility for CCDD Disposal
<input type="checkbox"/>	3A. & 3B.	L1.01	Assessment of Required Environmental Submittals for the Project	Has CDOT QA assessed the required environmental submittals for the project, based on information provided by the PM?
<input type="checkbox"/>	4 & 5	S1.01/L1.01	Submittal of Environmental Due Diligence Request	If State, submit Environmental Survey Request to IDOT? If Local, submit Property Screen Request to CDOT QA (and/or AIS, as applicable)?
<input type="checkbox"/>	6	S1.02/L1.02	Receipt of Environmental Due Diligence Findings	If State, did you receive the PESA cover memo and findings from IDOT? If Local, did you receive the Property Screen results from CDOT QA (and/or AIS, as applicable)?
<input type="checkbox"/>	6	N/A	Phase I Design Approval	Did you confirm with CDOT QA on environmental requirements to be included in the RFP solicitation?
<i>Phase II</i>				
<input type="checkbox"/>	7A. thru 7D.	N/A	PROJECT CONTRACTING, VOLUME EARTHWORK, & EXCAVATION AREA/DEPTH	Did you provide project-specific information to the CDOT QA to aid in assessing and reviewing sampling plan?
<input type="checkbox"/>	8	S2.01/L2.01	Submittal of PESA Response Form/PSI Work Order Request/Sampling Plan	If State, did you prepare and submit the PESA Response Form and PSI Work Order Request to IDOT? If Local, did you prepare the sampling plan and submit to CDOT QA (and/or AIS, as applicable)?
<input type="checkbox"/>	N/A	S2.02	IDOT Final Memo and Special Provisions	For State, did you receive the Special Provisions and Disposal Quantities from IDOT Special Waste/Regulated Substances Unit?
<input type="checkbox"/>	9	N/A	Phase II Environmental Submittals QA Review	Did CDOT QA complete review of Phase II environmental submittals, including Sampling/Boring Plan, PSI/CCDD/LSI Report(s)?
<input type="checkbox"/>	9	L2.02	CDOT Consultant Conducts Sampling	For Local, did you issue work order to CDOT Consultant to conduct soil sampling and preparation of disposal documentation?
<input type="checkbox"/>	10	L2.03	CDOT Consultant Issues Disposal Recommendations	For Local, did you receive: (i) Disposal recommendations, quantities, and special provisions from CDOT Consultant and (ii) CCDD Pre-approval letters from CDOT QA?
<i>Phase III</i>				
<input type="checkbox"/>	11	N/A	Phase III (Construction) Environmental Submittals QA Review	Has CDOT QA reviewed the Regulated Substances Pre-Construction Plan (RSPCP), On-Site Monitoring Report (OSMR), and/or Regulated Substances Final Construction Report (RSFCR)?
<input type="checkbox"/>	11	S3.01/L3.01	Update Disposal Documentation	If State (if > 1 year has passed since Step S2.02 completed), did you coordinate with IDOT on updating disposal documentation? If Local (if > 1 year has passed since Step L2.02 completed), did you coordinate with CDOT QA on updating disposal documentation?
<input type="checkbox"/>	11	S3.02/L3.02	Notify CDOT QA of Regulated Substances Issues During Construction	CDOT QA to conduct split sampling alongside QC (Contractor's Environmental Consultant). For IDOT project, QA samples to be analyzed for consideration of reimbursement. CDOT QA to provide documentation to CDOT PM of Regulated Substances issues, sampling results, and recommendations.

**TABLE 2 – REGULATED SUBSTANCES ROLES AND RESPONSIBILITIES**

Role Type/ Department	Contact Person(s)	General Roles & Responsibilities Regarding Regulated Substances
CDOT PM	Project specific	<ul style="list-style-type: none"> <li>• Follow and refer to the Regulated Substances SOPs regarding the protocol and decision-making guidance in Phase I, II, and III for proper soil and/or groundwater management and disposal</li> <li>• Coordinate with CDOT QA and RE (once in construction) with Regulated Substances plans</li> </ul>
CDOT QA	Sean Guzik (CDOT) – QA Manager/Assistant Chief Engineer Scott Paloian (CDOT) – QA Coordinating Engineer/Materials Manager Adam Kittler (GZA) – RS QA Consultant Cory Wilson (GZA) – RS QA Consultant	<ul style="list-style-type: none"> <li>• Provide QA to CDOT projects and ensure proper Regulated Substances provisions are accounted for during design, as needed per project type</li> <li>• Coordinate with CDOT PM, Design Consultant, and Project RE during construction for proper management and considerations of soil/groundwater disposal requirements</li> <li>• CDOT QA consultant to provide oversight, recommendations, and split sampling on a project-by-project basis, as needed</li> <li>• CDOT QA consultant to provide oversight, recommendations, and split sampling on a project-by-project basis, as needed</li> </ul>
Fleet and Facility Management (2FM)	Paul Waite (2FM) – Environmental Engineer III and QA for Risk-Managed CDOT Projects	<ul style="list-style-type: none"> <li>• Provides the City-Wide Sampling Policy requirements and guidance to CDOT to reduce legal risk to the department regarding Regulated Substances</li> <li>• Provides final QA services for Risk-Managed CDOT projects, on a project-by-project basis</li> </ul>
Contractor and/or Environmental QC	Project-specific	<ul style="list-style-type: none"> <li>• If the project is <b>Risk-Managed</b> (e.g., Arterial Street Resurfacing Program), the Environmental QC (Contractor’s environmental consultant) shall follow any CDOT QA guidance, based on Phase I Regulated Substances Reviews/Corridor Screening documentation; QC and QA shall simultaneously take the landfill profile sample(s) in Phase III for disposal as Non-Special, Special, or Hazardous Waste</li> <li>• If the project is by <b>Design Consultant</b>, the Contractor shall follow the disposal specifications (per 669.05 and the stationing of such soil classifications) from Phase II</li> <li>• If ACM removal or groundwater disposal is to occur with project, QC and QA shall be present to take split samples simultaneously</li> <li>• If additional (unexpected) scenarios are encountered in Phase III, RE shall coordinate with QC and QA for split sampling to occur simultaneously</li> </ul>

**APPENDIX F**

CCDD/USFO RECEIVING FACILITIES NEAR CHICAGO

CCDD/USFO Facilities Near City of Chicago (Located within IDOT District 1 Boundaries)

Updated: April 9, 2025

Facility Name	Type	Status	BOL#	Address	City	County	Zip Code	Located Within Chicago MSA?	Notes
Reliable Lyons CCDD	CCDD	Closed	0311715020	4226 Lawndale Avenue	Lyons	Cook	60534	Yes	Letter to confirm no new sites (updated database/records search, site visit) required for data > 2 years
Bluff City/Reliable Asphalt Corporation	CCDD	OPEN	0318223004	610 W 183rd Street	Thornton	Cook	60476	Yes	Letter to confirm no new sites (updated database/records search, site visit) required for data > 2 years
Hanson Material Services - Algonquin	CCDD	OPEN	1110055013	10005 IL Route 31	Algonquin	McHenry	60102	Yes	Closure extension for USFO denied. CCDD permit expires May 1, 2029
Meyer Material East Yard 55	USFO	Closed	1114050001	10500 South IL Route 31	Algonquin	McHenry	60102	Yes	
Midwest Aggregates	CCDD	Closed	970055126	28435 West Route 173	Antioch	Lake	60002	Yes	
Thelen Sand and Gravel	CCDD	OPEN	1114200001	28955 West Route 173	Antioch	Lake	60002	Yes	
Heartland Recycling CCDD	CCDD	OPEN	894075963	213 Mettel Road	Aurora	DuPage	60505	Yes	
Gifford East CCDD Unit 1-3	CCDD	Closed	314125046	1395 Gifford Road	Bartlett	Cook	60103	Yes	
47 Acres Southwind Park CCDD	CCDD	Closed	894125007	2250 Southwind Boulevard	Bartlett	Cook	60103	Yes	
Blue Heron Business Park	CCDD	Closed	898075002	23108 West Bartlett Road	Bartlett	Cook	60103	Yes	
Bloomingtondale USFO	USFO	OPEN	0438010002	6N030 Rosedale Avenue	Bloomingtondale	DuPage	60108	Yes	
Elmhurst Chicago Stone Company - Barbers Corners	CCDD	OPEN	1978030002	351 Royce Road	Bolingbrook	DuPage	60440	Yes	
H & H Stone	USFO	OPEN	1978155062	1421 West 135th Street	Bolingbrook	DuPage	60441	Yes	
Carpentersville Facility	CCDD	OPEN	0890205036	800 Bolz Road	Carpentersville	Kane	60110	Yes	
Rio Vista	CCDD	Closed	0316550001	700 East 138th Street	Chicago	Cook	60619	Yes	
Fitzmar Landfill Inc.	CCDD	OPEN	0310450011	28th & East End Avenue	Chicago Heights	Cook	60411	Yes	
Curran/Consolidated Materials	CCDD	OPEN	1118015018	1350 South Virginia Road	Crystal Lake	McHenry	60156	Yes	
American Material Sales	CCDD	OPEN	890255034	590 Healy Road	East Dundee	Kane	60118	Yes	
Beverly Material CCDD	CCDD	OPEN	894250020	32W007 IL Route 72	East Dundee	Kane	60118	Yes	
Beverly Materials	USFO	OPEN	894250020	32W007 IL Route 72	East Dundee	Kane	60118	Yes	
Yard 92	CCDD	OPEN	894250026	590 Healy Road	East Dundee	Kane	60118	Yes	
Palumbo Management CCDD-South	CCDD	OPEN	898065023	951 East Main Street	East Dundee	Kane	60118	Yes	Not eligible to receive material per IDOT Memo
Prairie Materials Elburn Yard 91	CCDD	OPEN	890305044	1 South 398 Lorang Road	Elburn	Kane	60119	Yes	
Elburn-Lorang Road CCDD	CCDD	OPEN	890305068	2S785 Lorang Road	Elburn	Kane	60119	Yes	
Baldmound LLC	USFO	OPEN	890305072	40W234 Fabran Parkway	Elburn	Kane	60119	Yes	
Elgin Clean Soils Fill Site	USFO	OPEN	0318055014	1501 West Bartlett Road	Elgin	Kane	60103	Yes	
Lambrecht Property	CCDD	Closed	0311055032	Glenwood-Dyer/I-394SE	Glenwood	Cook	60425	Yes	
Melms Gravel USFO	USFO	OPEN	898090001	48W760 Melms Road	Hampshire	Kane	60140	Yes	
18N585 Brier Hill Road Co	USFO	OPEN	890455073	18N585 Brier Hill Road	Hampshire	Kane	60140	Yes	
McGuire Road Stone	USFO	OPEN	1118065004	20617 McGuire Road	Harvard	McHenry	60033	Yes	
East Beverly Pit/Beverly Material	USFO	OPEN	0314495082	2600 Beverly Road	Hoffman Estates	Cook	60192	Yes	
Square Barn Quarry USFO	USFO	OPEN	0894350011	19N761 Square Barn Road	Huntley	McHenry	60142	Yes	
Foster Road Quarry	USFO	OPEN	1114350031	11217 Foster Road	Huntley	McHenry	60142	Yes	
Oaks	USFO	OPEN	978995157	34111 North US Highway 12	Ingleside	Lake	60041	Yes	
Chicago Street CCDD LLC	CCDD	OPEN	1970455178	1127 South Chicago Street	Joliet	Will	60436	Yes	
Richards Street CCDD	CCDD	OPEN	1974450034	800 South Richards Street	Joliet	Will	60433	Yes	
Richards Street Quarry USFO	USFO	OPEN	1974450034	800 South Richards Street	Joliet	Will	60435	Yes	
DeBe Land Development Inc. Quarry	Permit terminated	Permit terminated	1978095150	1450 South Brandon Road	Joliet	Will	60436	Yes	
Black Forest-Zurich	USFO	OPEN	1978095227	1413 Cecelia Avenue	Joliet	Will	60436	Yes	
FJV Development	CCDD	Closed	1978175017	3210 Mound Road	Joliet	Will	60436	Yes	
Rowell Avenue CCDD	CCDD	OPEN	1978215019	512 Rowell Avenue	Joliet	Will	60433	Yes	
Lake in the Hill CCDD	CCDD	OPEN	1110405067	Pingree-Virginia Road	Lake in the Hills	McHenry	60156	Yes	
Peterson Sand & Gravel-McHenry	CCDD	OPEN	1110600018	914 West IL Route 120	Lakemoor	McHenry	60050	Yes	
Lakemoor Materials	CCDD	OPEN	1114450003	1205 West Route 120	Lakemoor	McHenry	60051	Yes	
Village of Lynwood	CCDD	Closed	0311685020	21460 East Lincoln Highway	Lynwood	Cook	60411	Yes	
Reliable Lyons CCDD	CCDD	Closed	0311715020	4226 Lawndale Avenue	Lyons	Cook	60534	Yes	
Prairie Material Sales Yard 90 CCDD	CCDD	OPEN	1110655054	8293 South IL Route 23	Marengo	McHenry	60152	Yes	
Marengo Quarry Facility	CCDD	OPEN	1118155009	8920 South IL Route 23	Marengo	McHenry	60152	Yes	
Hanson Material Services Yard 585	CCDD	OPEN	0311745012	9101 West 47th	McCook	Cook	60525	Yes	Facility will not accept "Chicago Urban Fill" regardless of screening/MAC results
Vulcan Construction Materials	CCDD	OPEN	0311745029	5500 East Joliet Road	McCook	Cook	60525	Yes	Requires delineation to be from clean boring to clean boring (rather than mid-point approach)
McHenry Sand and Gravel CCDD	CCDD	OPEN	1110605175		McHenry	McHenry		Yes	
Reliable Sand & Gravel CCDD	CCDD	OPEN	1118115015	2121 South River Road	McHenry	McHenry	60050	Yes	
Superior Asphalt Materials	CCDD	OPEN	890605075	216 Butterfield Road	North Aurora	Kane	60542	Yes	
Geneva Construction Company	CCDD	Closed	890605075	216 Butterfield Road	North Aurora	Kane	60542	Yes	
Willco Green CCDD (a.k.a. EF Heil)	CCDD	OPEN	1970805144	12152 South Naperville Road	Plainfield	Will	60585	Yes	
Vulcan Bolingbrook Quarry A&B	CCDD	OPEN	1978200006	22933 W Hassert Boulevard	Plainfield	Will	60585	Yes	Resumed CCDD acceptance on April 26, 2024
Richton Park CCDD	CCDD	OPEN	0311800001	22100 South Central Avenue	Richton Park	Cook	60471	Yes	
Hanson Material Services Yard 588	CCDD	OPEN	1970900001	125 North Independence	Romeoville	Will	60446	Yes	
Orange Crush LLC	CCDD	Closed	1970905104	1001 North Independence Boulevard	Romeoville	Will	60446	Yes	
Willow Ranch CCDD Facility	CCDD	OPEN	1970905141	1371 North Joliet Road	Romeoville	Will	60446	Yes	
Central Blacktop Company Inc.	CCDD	Closed	890805023	900 North La Fox Street	South Elgin	Kane	60177	Yes	
Lafarge Fox River Stone CCDD	CCDD	OPEN	890805051	7N394 South McLean Boulevard	South Elgin	Kane	60177	Yes	
Raymond Street CCDD	CCDD	OPEN	890805066	1400 IL Route 25	South Elgin	Kane	60120	Yes	
Middle Street CCDD	CCDD	Closed	0894125006	1155 West Middle Street	South Elgin	Kane	60177	Yes	
Thornton CCDD	CCDD	Closed	0313095034	5 Derby Road	Thornton	Cook	60476	Yes	
Hanson Material Services -Thornton Quarry	CCDD	OPEN	0313095040	620 West 183rd Street	Thornton	Cook	60476	Yes	
Ridge Road CCDD	CCDD	OPEN	0318223004	301 Ridge Road	Thornton	Cook	60430	Yes	
Berger Excavating East Pit	USFO	OPEN	0978145010	1206 N. Garland Road	Wauconda	Lake	60084	Yes	

Updated: April 9, 2025

- Notes:**
- The user of this list shall confirm with the Illinois Environmental Protection Agency that the facility has an active permit. A current list of permitted CCDD and USFO facilities can be found at the IEPA website: <https://epa.illinois.gov/topics/waste-management/waste-disposal/ccdd.html>
  - This list shall be maintained by CDOT and updated annually.

**APPENDIX G**

LANDFILL WASTE CHARACTERIZATION AND PROFILING PROTOCOL

## APPENDIX G

# LANDFILL WASTE CHARACTERIZATION AND PROFILING PROTOCOL

### CDOT LOCAL ROADWAY PROJECTS

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**Purpose:** The purpose of this Landfill Waste Characterization and Profiling Protocol document (“Profiling Protocol”) is to provide a protocol on waste characterization and profiling for **Local** roadway and alley projects for the City of Chicago Department of Transportation (CDOT). The protocol provides the methods, frequency, and a streamlined approach to characterize CDOT project spoils and profile the spoils for landfill acceptance, as applicable. Waste characterization will consist of testing soil, primarily Chicago urban fill material, for parameters that meet the requirements for disposal acceptance at a permitted Subtitle D sanitary landfill facility.

**Owner:** The document was prepared with input from CDOT and will be maintained by the CDOT Quality Assurance (QA) consultant for Regulated Substances (referred to herein as “CDOT QA”).

**Effective Date:** August 8, 2025

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This document is organized into the following sections:

- 1.0 BACKGROUND AND DEFINITIONS
- 2.0 EXAMPLE CDOT PROJECT TYPES TO BE INCLUDED IN THIS PROTOCOL
- 3.0 TYPICAL CDOT LOCAL ROADWAY AND ALLEY PROJECT WASTE STREAM
- 4.0 HISTORICAL WASTE CHARACTERIZATION SAMPLE RESULTS FROM URBAN FILL
- 5.0 PROPOSED PROTOCOL

**ATTACHMENTS:**

**ATTACHMENT A** – FIGURES

**ATTACHMENT B** – TABLES

**ATTACHMENT C** – LABORATORY ANALYTICAL REPORTS (2019-2024)

### 1.0 BACKGROUND AND DEFINITIONS

Spoils generated from CDOT projects are classified according to State and Federal regulations. Federal regulations define and regulate hazardous waste, while State regulations define and regulate other types of solid waste. Hazardous wastes are identified as either *listed wastes* (e.g. F-list, K-list, P-list, U-list) or *characteristic wastes*. Non-listed (i.e. *characteristic wastes*) may be considered hazardous, if through testing or generator knowledge, they exhibit at least one of four hazardous characteristics:

**Ignitability** – Liquids with flash points below 60 °C (140 °F), non-liquids that cause fire under specific conditions, and ignitable compressed gases and oxidizers.

**Corrosivity** – Aqueous wastes with a pH of less than or equal to 2, a pH greater than or equal to 12.5, or is a liquid and can corrode steel.

**Reactivity** – Wastes unstable under normal conditions. This includes waste that may react with water, may give off toxic gases, and may be capable of detonation or explosion under normal conditions or when heated.

**Toxicity** – Wastes that are hazardous due to the toxicity characteristic are harmful when ingested or absorbed. Toxicity characteristic wastes present a concern as they may be able to leach from waste and pollute groundwater. The toxicity of a waste is determined by the Toxicity Characteristic Leaching Procedure (TCLP).

A solid waste exhibits the characteristic of toxicity if, using the TCLP test method, extract results are above the regulatory level established in 40 Code of Federal Regulations (CFR) Part §261.24. Regulatory levels exist for the eight (8) Resource Conservation and Recovery Act (RCRA) metals and 25 organic compounds. Based on the location of the CDOT projects and knowledge of the wastes generated, it is considered appropriate to assess if soils exhibit the toxicity characteristic prior to generating spoils.

CDOT’s protocol described herein considers the potential for characteristically hazardous conditions to be assessed on a project-by-project basis. In addition, landfill waste characterization testing is designed to identify the presence of characteristically hazardous waste, pursuant to the requirements of 40 CFR Part §261.

## **2.0 EXAMPLE CDOT PROJECT TYPES TO BE INCLUDED IN THIS PROTOCOL**

The intent of this Profiling Protocol document is to provide a procedural approach for soil spoils disposal on CDOT projects which may have limited analytical testing conducted as part of Clean Construction or Demolition Debris (CCDD) sampling or those that can be considered “risk-managed” projects. A “risk-managed” project includes project locations in which small volumes, typically less than 250 cubic yards (CY), of material is destined for off-site disposal and/or soil testing may not be considered cost-effective. In-house CDOT projects, small-scale improvements at multiple locations (e.g., multiple intersection improvements, road resurfacing, or shallow excavation projects), or projects which are part of multi-year contracts within a specific program are typical examples which would benefit from a landfill waste characterization protocol approach for soil management. These projects are generally spread out in multiple locations, making individual project location sample collection sometimes infeasible or not cost effective.

CDOT Programs/Projects may include:

- Green Alley Program
- Traffic Signal Modernization (TSM) Intersection Improvements
- Arterial Resurfacing (AR) Program and Americans with Disabilities Act (ADA) Ramp/Infrastructure Improvements

## **3.0 TYPICAL CDOT WASTE STREAM**

Based on the historical nature of Chicago development utilizing waste and debris material for fill, many of the projects in which CDOT will generate spoils requiring off-site disposal contain “urban fill” material<sup>1</sup>. Based on prior soil core logging and subsurface investigations conducted by CDOT QA, the urban fill material is generally described as dark brown/black silty sand with clay, with trace amounts of gravel and waste/debris items (coal, slag, cinders, ashes, brick, wood, glass, porcelain, various metals/shards, and sometimes plastics). The urban fill material can also contain fire debris with partially

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<sup>1</sup> Typically, urban fill material is identified within the top 3 to 4 feet of the majority of aggregate fill material within the City of Chicago. Some primarily residential areas on the outer edges (far southwest, far west, far northwest) may not include urban fill material.

combusted material exhibiting elevated concentrations of total polynuclear aromatic hydrocarbons (PNAs) and the RCRA metals (arsenic, barium, cadmium, chromium lead, mercury, selenium, and silver). However, based on the results that are discussed in **Section 4.0**, from years of laboratory analytical results, it is rare that the urban fill material contains concentrations of leachable constituents which exceed the applicable Maximum Concentration for the Toxicity Characteristic (Table 1 from 40 CFR §261.24). Refer to **Section 4.0** for further discussion of analytical results considered contemporary for purposes of waste characterization.

There are location-specific exceptions to the concentrations of volatile organic compounds (VOCs), PNAs, RCRA metals, and additional hazardous constituents of concern (COCs) identified in the urban fill material. The following known contamination areas (Exclusion Areas) will be excluded from consideration of disposal as Non-Special Waste (NSW) or Special Waste (SW) for this Profiling Protocol. These Exclusion Areas are also included in the City of Chicago’s Permit Hold areas, which require special handling and monitoring considerations prior to any subsurface work.

NSW Exclusion Areas:

- **O’Hare Airport** and Surrounding Industrial Land Use Area
- **Midway Airport** and Surrounding Industrial Land Use Area
- **Thorium Monitoring Area**, as depicted at the following United States Environmental Protection Agency web link: <https://www.epa.gov/lindsay-light/streeterville-thorium-monitoring-area-map>
- **Former Carnotite Reduction Company Remediation Area**, as depicted at the following City of Chicago web link: <https://www.chicago.gov/city/en/sites/carnotite-remediation/home.html#:~:text=From%20approximately%201916%20to%201921,26th%20Street%2C%20Chicago%2C%20Illinois.>
- **Lead Contamination Area**; as provided by the City of Chicago, Department of Fleet & Facility Management (2FM); generally bounded by W. 21<sup>st</sup> Street to the north, S. Throop Street to the east, W. Cermak Road to the south, and S. Laflin Street to the west
- **Mercury Contamination Area**; as provided by 2FM; immediately south of the Former Carnotite Reduction Company Remediation Area, generally bounded by the southern boundary of the Former Carnotite Reduction Company Remediation Area to the north, S. Lake Park Avenue to the east, E. 29<sup>th</sup> Place to the south, and S. Vernon Avenue to the west

Additional Exclusion Areas will be incorporated into the protocol annually as information becomes available to CDOT.

#### **4.0 HISTORICAL WASTE CHARACTERIZATION SAMPLE RESULTS FROM URBAN FILL**

As presented in **Table 1** and depicted on **Figure 1**, twenty-five (25) waste characterization samples have been collected and analyzed since 2019, each of which were sampled from observed urban fill material within a CDOT project. The following figures are included in **Attachment A**:

- **Figure 1**: provides the City-Wide Waste Characterization Sampling Locations and shows the boundaries of the North Area, Central Area, and South Area.
- **Figure 2**: provides the North Area Waste Characterization Sampling Locations
- **Figure 3**: provides the Central Area Waste Characterization Sampling Locations
- **Figure 4**: provides the South Area Waste Characterization Sampling Locations

Samples were analyzed for one or more of the following landfill waste characterization parameters: TCLP VOCs, TCLP semi-volatile organic compounds (SVOCs), TCLP RCRA Metals, TLCP pesticides, TCLP herbicides, polychlorinated biphenyls (PCBs), reactive sulfide, reactive cyanide, total recoverable phenolics, paint filter test, flash point, and pH.

The urban fill material waste characterization analytical results are below regulatory levels for the toxicity characteristic. Additional analyses conducted to assess for reactivity, ignitability, and corrosivity consistently meet the hazardous waste criteria pursuant to 40 CFR Part §261. Refer to **Table 1** for a summary of urban fill waste characterization sample results from the five (5) previous years.

Based on analytical results collected to-date, urban fill material from CDOT projects outside of Exclusion Areas do not exhibit hazardous characteristics. Therefore, the material is considered eligible for disposal at a permitted Subtitle D landfill facility, pending final approval.

From the urban fill waste characterization samples analyzed from 2019 to 2024, the laboratory did not report detectable levels of TCLP VOCs, TCLP SVOCs, TCLP arsenic, TCLP copper, TCLP selenium, TCLP silver, PCBs, TCLP Pesticides, TCLP Herbicides, Reactive Cyanide, or Reactive Sulfide. The urban fill material waste characterization analytical results are below regulatory levels for the toxicity characteristic. Additional analyses conducted to assess for reactivity, ignitability, and corrosivity consistently meet the hazardous waste criteria pursuant to 40 CFR Part §261.

## 5.0 PROPOSED PROTOCOL

The following protocol is to be implemented for providing an annual waste profile and laboratory analytical results to the contracted receiving facility for the list of CDOT Programs/Projects discussed in **Section 2.0**.

1. Annually, collect four (4) soil samples of urban fill from the three (3) geographic areas, at the rate specified below. Each sample will be considered representative of the expected urban fill waste stream within the following geographic areas: “North Area”, “Central Area”, and “South Area”<sup>2</sup>. Sample collection shall correspond to programs which will be planned for soil investigation activities. An example includes the first batch of Green Alley Program projects, which typically occurs in March or April.
  - One (1) sample from an alley project located within the North Area
  - One (1) sample from an alley project located within the Central Area, and
  - Two (2) samples from alley projects located within the South Area.

Each waste characterization sample will be analyzed for the following parameters: TCLP VOCs, TCLP SVOCs, TCLP RCRA Metals, TCLP pesticides, TCLP herbicides, PCBs, reactive sulfide, reactive cyanide, total recoverable phenolics, paint filter test, flash point, and pH.

2. Each of the geographical waste characterization samples will be considered representative of expected waste streams based on anticipated projects within their respective geographical areas. For example, North Area sample

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<sup>2</sup> **North Area:** defined as the area generally bound by the City of Chicago Corporate Limits to the North, Lake Michigan to the East, North Avenue to the South, and the City of Chicago Corporate Limits to the West.

**Central Area:** defined as the area generally bound by North Avenue to the North, Lake Michigan to the East, 35<sup>th</sup> Street to the South, and the City of Chicago Corporate Limits to the West.

**South Area:** defined as the area generally bound by 35<sup>th</sup> Street to the North, Lake Michigan to the East, the City of Chicago Corporate Limits to the South, and the City of Chicago Corporate Limits to the West.

for 2024 (sample ID “N-1” in **Table 1**, collected on 3/6/2024) is considered representative of typical CDOT Programs/Projects (as described above in **Section 2.0**) within the North Area, with specific exceptions as stipulated in the Exclusion Areas herein.

3. The frequency of waste characterization samples from the North Area, Central Area, and South Area will be once per year, generally in the spring.
4. Certain CDOT programs, such as the Green Alley Program, may have site-specific analytical results (such as total VOCs, total PNAs, total RCRA metals, TCLP chromium, TCLP lead, and pH), in addition to the geographic waste characterization data. Site-specific analytical results will be reviewed by CDOT’s QA consultant and assessed for soil management considerations. Should analytical results potentially affect CDOT’s active landfilling profile, waste generation will be suspended, and the receiving facility will be notified. Site-specific data can be provided to the Subtitle D landfill facility as an amendment to the specific profile, as requested or required.
5. CDOT’s QA consultant for special waste will manage the annual Landfill Waste Characterization and Profiling Protocol Program to request contractors provide new Landfill Profile form submittals with the laboratory analytical results from each annual sampling event. Additionally, CDOT QA will provide environmental due diligence to support the laboratory analytical results as representative of the project-specific anticipated waste stream.
6. Each CDOT project under construction has a Resident Engineer overseeing the soil management and removal of unsuitable material for off-site disposal. Should unexpected conditions occur during excavation and/or soil handling which deviate from the typical urban fill material waste stream, CDOT QA will coordinate site/project-specific sample collection and/or field management to provide profile amendment information, as necessary.

## **ATTACHMENTS**

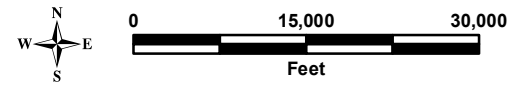
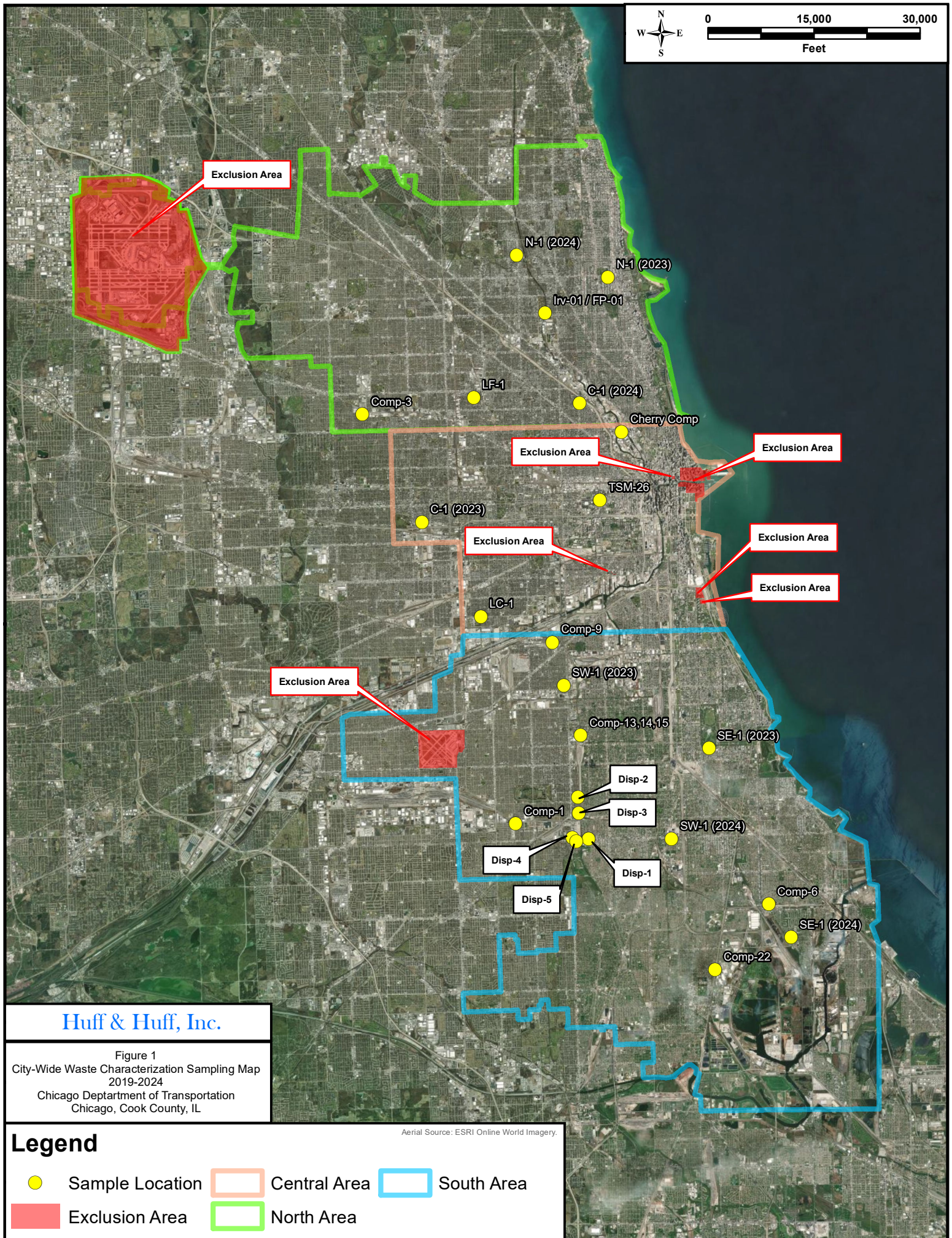
ATTACHMENT A – FIGURES

ATTACHMENT B – TABLES

ATTACHMENT C – LABORATORY ANALYTICAL REPORTS (2019-2024)

**ATTACHMENT A**

**FIGURES**



Exclusion Area

N-1 (2024)

N-1 (2023)

Irv-01 / FP-01

Comp-3

LF-1

C-1 (2024)

Cherry Comp

Exclusion Area

Exclusion Area

C-1 (2023)

TSM-26

Exclusion Area

Exclusion Area

Exclusion Area

LC-1

Comp-9

Exclusion Area

SW-1 (2023)

Comp-13,14,15

SE-1 (2023)

Disp-2

Comp-1

Disp-3

SW-1 (2024)

Disp-4

Disp-1

Disp-5

Comp-6

SE-1 (2024)

Comp-22

Huff & Huff, Inc.

Figure 1  
 City-Wide Waste Characterization Sampling Map  
 2019-2024  
 Chicago Department of Transportation  
 Chicago, Cook County, IL

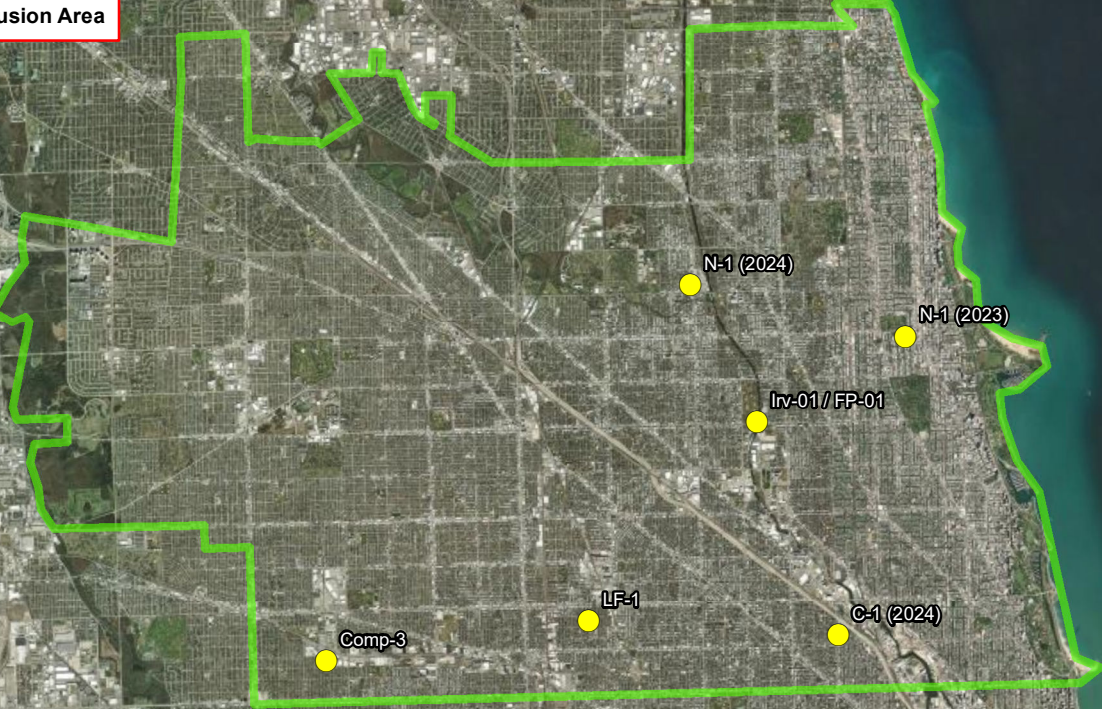
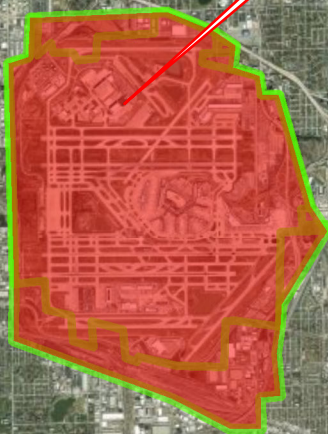
**Legend**

● Sample Location    
   Central Area    
   South Area  
 Exclusion Area    
  North Area

Aerial Source: ESRI Online World Imagery.



Exclusion Area



- N-1 (2024)
- N-1 (2023)
- Inv-01 / FP-01
- Comp-3
- LF-1
- C-1 (2024)

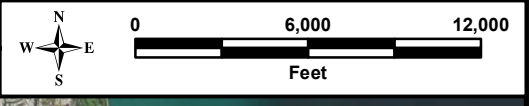
**Legend**

- Sample Location
- Exclusion Area
- North Area

Aerial Source: ESRI Online World Imagery.

**Huff & Huff, Inc.**

Figure 2  
 North Area Waste Characterization Sampling Map  
 2019-2024  
 Chicago Department of Transportation  
 Chicago, Cook County, IL



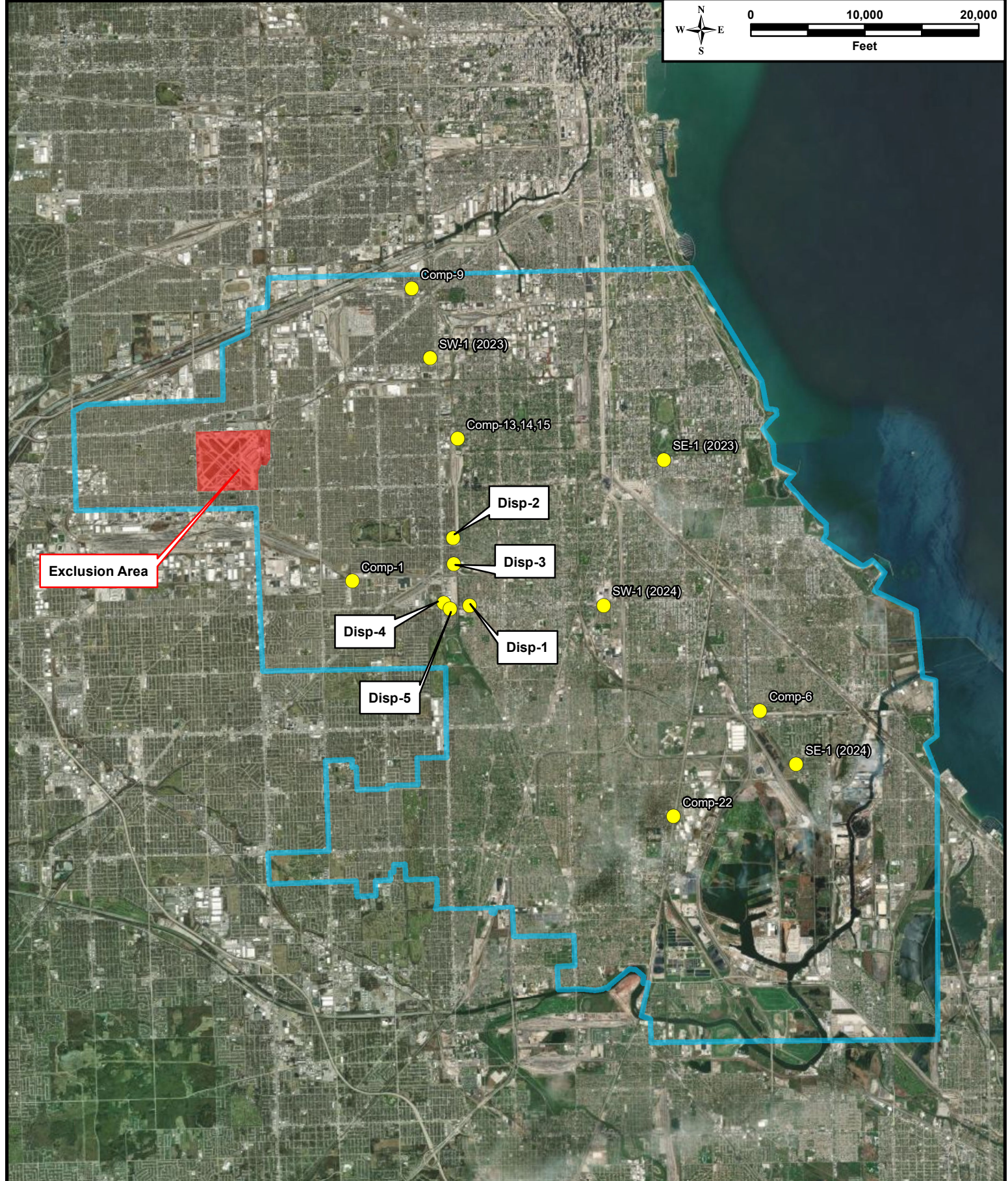
**Legend**

- Sample Location
- Exclusion Area
- Central Area

Aerial Source: ESRI Online World Imagery.

**Huff & Huff, Inc.**

Figure 3  
 Central Area Waste Characterization Sampling Map  
 2019-2024  
 Chicago Department of Transportation  
 Chicago, Cook County, IL



**Legend**

- Sample Location
- Exclusion Area
- South Area

Aerial Source: ESRI Online World Imagery.

**Huff & Huff, Inc.**

Figure 4  
 South Area Waste Characterization Sampling Map  
 2019-2024  
 Chicago Department of Transportation  
 Chicago, Cook County, IL

**ATTACHMENT B**

TABLES

TABLE 1  
WASTE CHARACTERIZATION SAMPLING RESULTS FOR LANDFILL PROFILING (2019-2024)  
CHICAGO DEPARTMENT OF TRANSPORTATION

Parameter	CDOT Project City Geographical Area <sup>1</sup> Sample ID	Toxicity Characteristic Maximum Concentrations <sup>2</sup>	Hazardous Characteristic <sup>3</sup>	S-0-435: CMB/75th St C.I.P.					E-5-038: Irving Park Rd		2022 WPA Streets					TSM Intersections		CIC/NCI Alley Program (2019-2024)											
				South	South	South	South	South	North	North	South	North	South	South	South	South	Central	Central	North	Central	South	South	Central	North	North	North	South	South	
				Disp-1	Disp-2	Disp-3	Disp-4	Disp-5	Irsv-01	FP-01	Comp-1	Comp-3	Comp-6	Comp-9	Comp-13/14/15	Comp-22	LC-1	TSM-26	LF-1	Cherry Comp	SW-1	SW-1	C-1	C-1	N-1	N-1	SE-1	SE-1	
Sample Collection Date																													
<b>TCLP VOCs</b>																													
Benzene	mg/L	0.5	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2-Butanone (MEK)	mg/L	200	---	<0.500	<0.500	<0.500	<0.500	<0.500	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Carbon tetrachloride	mg/L	0.5	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	mg/L	100	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	mg/L	6	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloroethane	mg/L	0.5	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethene	mg/L	0.7	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	mg/L	7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tetrachloroethene	mg/L	0.7	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethene	mg/L	0.5	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl chloride	mg/L	0.2	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>TCLP SVOCs</b>																													
1,4-Dichlorobenzene	mg/L	7.5	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
2,4-Dinitrotoluene	mg/L	0.13	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachlorobenzene	mg/L	0.13	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachlorobutadiene	mg/L	0.5	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachloroethane	mg/L	3	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrobenzene	mg/L	2	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
2-Methylphenol	mg/L	200	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
3,4-Methylphenol	mg/L	200	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Pentachlorophenol	mg/L	100	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Pyridine	mg/L	5	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
2,4,5-Trichlorophenol	mg/L	400	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
2,4,6-Trichlorophenol	mg/L	2	---	<0.100	<0.100	<0.100	<0.100	<0.100	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
<b>TCLP Metals</b>																													
Arsenic	mg/L	5	---	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium	mg/L	100	---	<b>1.4</b>	<b>0.45</b>	<b>0.82</b>	<b>0.99</b>	<b>0.4</b>	<b>0.61</b>	<b>0.70</b>	<b>0.62</b>	<b>0.66</b>	<b>0.54</b>	<b>0.51</b>	<b>0.92</b>	<b>0.87</b>	<b>0.45</b>	<b>0.35</b>	<b>0.35</b>	<b>0.35</b>	<b>0.87</b>	<b>0.475</b>	<b>0.75</b>	<b>0.621</b>	<b>0.55</b>	<b>0.181</b>	<b>0.5</b>	<b>0.254</b>	
Cadmium	mg/L	1	---	<b>0.004</b>	<b>0.005</b>	<b>0.0038</b>	<b>0.0013</b>	<b>0.0011</b>	<b>0.013</b>	<b>0.086</b>	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.0156</b>	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Chromium	mg/L	5	---	<b>0.19</b>	<0.025	<b>0.14</b>	<0.025	<b>0.035</b>	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Copper	mg/L	---	---	---	---	---	---	---	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Lead	mg/L	5	---	<b>0.065</b>	<b>0.15</b>	<b>0.24</b>	<b>0.015</b>	<b>0.065</b>	<b>0.046</b>	<b>1.0</b>	<b>0.06</b>	<0.0050	<b>0.0051</b>	<0.0050	<b>0.0075</b>	<b>0.31</b>	<b>0.0065</b>	<0.0050	<b>0.0091</b>	<0.0050	<b>0.12</b>	<b>0.123</b>	<b>0.15</b>	<0.0500	<b>0.057</b>	<0.0050	<b>0.11</b>	<0.0500	
Mercury	mg/L	0.2	---	<0.0002	<0.0002	<b>0.0004</b>	<0.0002	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Nickel	mg/L	---	---	---	---	---	---	---	<b>0.016</b>	<b>0.012</b>	<0.010	<b>0.025</b>	<b>0.021</b>	<b>0.069</b>	<b>0.016</b>	<b>0.025</b>	---	---	---	<b>0.022</b>	---	<b>0.023</b>	---	<b>0.015</b> </					

**ATTACHMENT C**

LABORATORY ANALYTICAL REPORTS (2019-2024)



sterling labs

- O'Hare Location

509 N. 3<sup>rd</sup> Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 [www.thesterlinglab.com](http://www.thesterlinglab.com)

March 21, 2024

Huff & Huff, A subsidiary of GZA  
915 Harger Road, Suite 330  
Oak Brook, IL 60523

Telephone: (630) 684-4429  
Fax: (630) 684-9120

Analytical Report for Work Order: O24C0276 Revision 0

RE: 81.0220733.07, Landfill Profile North

Dear Huff & Huff, A subsidiary of GZA:

Sterling Labs has received 2 samples for the referenced project on March 6, 2024 17:10. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Pat 186 / TNI standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (847) 967-6666.

Sincerely,

Olga Karplyuk  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. Sterling Labs is not responsible for customer provided information found in the report that is used to calculate final results. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, Sterling Labs will be under no obligation to support, defend or discuss the analytical report*



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- O'Hare Location

---

509 N. 3<sup>rd</sup> Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 [www.thesterlinglab.com](http://www.thesterlinglab.com)

**Customer:** Huff & Huff, A subsidiary of GZA  
**Project:** 81.0220733.07, Landfill Profile North  
**WorkOrder:** O24C0276

### Work Order Sample Summary

---

Laboratory ID	Sample ID	Tag Number	Collection Date	Date Received
O24C0276-01	N-1		03/06/24 09:00	03/06/24 17:10
O24C0276-02	C-1		03/06/24 09:55	03/06/24 17:10



Date Reported: 3/21/2024
Date Printed: 3/21/2024

Analytical Results

Customer: Huff & Huff, A subsidiary of GZA
Work Order: O24C0276
Project: 81.0220733.07, Landfill Profile North

Client Sample ID: N-1
Collection Date: 03/06/2024 09:00
Matrix: Solid

Lab ID: O24C0276-01

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains two main sections: Volatile Organic Compounds by GC/MS and Semivolatile Organic Compounds by GC/MS.



Date Reported: 3/21/2024  
Date Printed: 3/21/2024

## Analytical Results

Customer: Huff & Huff, A subsidiary of GZA  
Work Order: O24C0276  
Project: 81.0220733.07, Landfill Profile North

Client Sample ID: N-1  
Collection Date: 03/06/2024 09:00  
Matrix: Solid

Lab ID: O24C0276-01 (Continued)

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
<b>Polychlorinated Biphenyls (PCBs) by GC/ESW8082A / SW3546</b>				Prep Date:		<b>03/15/24 16:25</b>	Analyst: <b>KOP</b>	
<b>ILEPA 1002562023-16</b>								
Aroclor 1016	ND	0.0253		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
Aroclor 1221	ND	0.0759		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
Aroclor 1232	ND	0.101		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
Aroclor 1242	ND	0.0379		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
Aroclor 1248	ND	0.0379		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
Aroclor 1254	ND	0.0253		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
Aroclor 1260	ND	0.0379		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
<b>Metals by ICP-AES</b>				Prep Date:		<b>03/12/24 13:13</b>	Analyst: <b>KJ1</b>	
<b>SW6010D / SW1311 / SW3015</b>								
<b>ILEPA 1002562023-16</b>								
Arsenic TCLP	ND	0.0500		mg/L	1	03/13/2024	B24C0375	S24C0223
Barium TCLP	<b>0.181</b>	0.0500		mg/L	1	03/13/2024	B24C0375	S24C0223
Cadmium TCLP	ND	0.00500		mg/L	1	03/13/2024	B24C0375	S24C0223
Chromium TCLP	ND	0.0500		mg/L	1	03/13/2024	B24C0375	S24C0223
Lead TCLP	ND	0.0500		mg/L	1	03/13/2024	B24C0375	S24C0223
Selenium TCLP	ND	0.0500		mg/L	1	03/13/2024	B24C0375	S24C0223
Silver TCLP	ND	0.00500		mg/L	1	03/13/2024	B24C0375	S24C0260
<b>Mercury by CVAA</b>				Prep Date:		<b>03/11/24 15:49</b>	Analyst: <b>ES1</b>	
<b>SW7470A / SW1311</b>								
<b>ILEPA 1002562023-16</b>								
Mercury TCLP	ND	0.00040		mg/L	1	03/12/2024	B24C0339	S24C0204
<b>Wet Chemistry</b>				Prep Date:		<b>03/15/24 16:26</b>	Analyst: <b>KR2</b>	
<b>ASTM D92-90</b>								
<b>ILEPA 1002562023-16</b>								
Ignitability (open cup)	>180	35.0		°F	1	03/15/2024	B24C0552	
<b>Wet Chemistry</b>				Prep Date:		<b>03/07/24 10:38</b>	Analyst: <b>PP1</b>	
<b>SM2540G</b>								
<b>ILEPA 1002562023-16</b>								
Total Solids	<b>78.4</b>	0.100		% (Percent)	1	03/08/2024	B24C0221	
<b>Wet Chemistry</b>				Prep Date:		<b>03/13/24 10:52</b>	Analyst: <b>LN2</b>	
<b>SW7.3.3.2/9014 by Discrete</b>								
<b>ILEPA 1002562023-16</b>								
Reactive Cyanide	ND	3.92		mg/Kg	1	03/14/2024	B24C0426	S24C0268
<b>Wet Chemistry</b>				Prep Date:		<b>03/08/24 14:00</b>	Analyst: <b>DW1</b>	
<b>SW7.3.4.2</b>								
<b>ILEPA 1002562023-16</b>								
Reactive Sulfide	ND	5.00		mg/Kg	1	03/08/2024	B24C0294	
<b>Wet Chemistry</b>				Prep Date:		<b>03/12/24 13:30</b>	Analyst: <b>AP3</b>	
<b>SW9045C</b>								
<b>ILEPA 1002562023-16</b>								



Date Reported: 3/21/2024  
Date Printed: 3/21/2024

Analytical Results

Customer: Huff & Huff, A subsidiary of GZA  
Work Order: O24C0276  
Project: 81.0220733.07, Landfill Profile North

Client Sample ID: N-1  
Collection Date: 03/06/2024 09:00  
Matrix: Solid

Lab ID: O24C0276-01 (Continued)

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
<b>Wet Chemistry</b> ILEPA 1002562023-16	<b>SW9045C</b>					Prep Date: 03/12/24 13:30	Analyst: AP3	
pH	7.45			pH Units	1	03/12/2024	B24C0380	
<b>Wet Chemistry</b> ILEPA 1002562023-16	<b>SW9065</b>					Prep Date: 03/07/24 10:00	Analyst: LN2	
Phenolics, Total Recoverable	ND	0.119		mg/Kg dry	1	03/07/2024	B24C0241	S24C0130
<b>Wet Chemistry</b> ILEPA 1002562023-16	<b>SW9095</b>					Prep Date: 03/14/24 16:21	Analyst: DM1	
Free Liquid	Pass			Pass/Fail	1	03/14/2024	B24C0502	



Date Reported: 3/21/2024  
Date Printed: 3/21/2024

## Analytical Results

Customer: Huff & Huff, A subsidiary of GZA  
Work Order: O24C0276  
Project: 81.0220733.07, Landfill Profile North

Client Sample ID: C-1  
Collection Date: 03/06/2024 09:55  
Matrix: Solid

Lab ID: O24C0276-02

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
<b>Volatile Organic Compounds by GC/MS</b>			<b>SW1311 / SW8260B / SW5030</b>		Prep Date:	<b>03/14/24 06:27</b>	Analyst: <b>CP1</b>	
<b>ILEPA 1002562023-16</b>								
1,1-Dichloroethene TCLP	ND	0.00200		mg/L	1	03/14/2024	B24C0486	S24C0275
1,2-Dichloroethane TCLP	ND	0.00200		mg/L	1	03/14/2024	B24C0486	S24C0275
1,4-Dichlorobenzene TCLP	ND	0.0100		mg/L	1	03/14/2024	B24C0486	S24C0275
2-Butanone TCLP	ND	0.0280		mg/L	1	03/14/2024	B24C0486	S24C0275
Benzene TCLP	ND	0.00200		mg/L	1	03/14/2024	B24C0486	S24C0275
Carbon tetrachloride TCLP	ND	0.0200		mg/L	1	03/14/2024	B24C0486	S24C0275
Chlorobenzene TCLP	ND	0.00400		mg/L	1	03/14/2024	B24C0486	S24C0275
Chloroform TCLP	ND	0.00400		mg/L	1	03/14/2024	B24C0486	S24C0275
Tetrachloroethene TCLP	ND	0.00400		mg/L	1	03/14/2024	B24C0486	S24C0275
Trichloroethene TCLP	ND	0.00200		mg/L	1	03/14/2024	B24C0486	S24C0275
Vinyl chloride TCLP	ND	0.00400		mg/L	1	03/14/2024	B24C0486	S24C0275
<b>Semivolatile Organic Compounds by GC/MS</b>			<b>SW1311 / SW8270D / SW3510</b>		Prep Date:	<b>03/13/24 10:15</b>	Analyst: <b>LP</b>	
<b>ILEPA 1002562023-16</b>								
1,4-Dichlorobenzene TCLP	ND	0.0198		mg/L	1	03/13/2024	B24C0439	S24C0297
2,4,5-Trichlorophenol TCLP	ND	0.0099		mg/L	1	03/13/2024	B24C0439	S24C0297
2,4,6-Trichlorophenol TCLP	ND	0.0099		mg/L	1	03/13/2024	B24C0439	S24C0297
2,4-Dinitrotoluene TCLP	ND	0.0198		mg/L	1	03/13/2024	B24C0439	S24C0297
2-Methylphenol TCLP	ND	0.0099		mg/L	1	03/13/2024	B24C0439	S24C0297
3 & 4-Methylphenol TCLP	ND	0.0099		mg/L	1	03/13/2024	B24C0439	S24C0297
Hexachlorobenzene TCLP	ND	0.0099		mg/L	1	03/13/2024	B24C0439	S24C0297
Hexachlorobutadiene TCLP	ND	0.0099		mg/L	1	03/13/2024	B24C0439	S24C0297
Hexachloroethane TCLP	ND	0.0099		mg/L	1	03/13/2024	B24C0439	S24C0297
Nitrobenzene TCLP	ND	0.0059		mg/L	1	03/13/2024	B24C0439	S24C0297
Pentachlorophenol TCLP	ND	0.297		mg/L	1	03/13/2024	B24C0439	S24C0297
Pyridine TCLP	ND	0.0991		mg/L	1	03/13/2024	B24C0439	S24C0297



Date Reported: 3/21/2024
Date Printed: 3/21/2024

Analytical Results

Customer: Huff & Huff, A subsidiary of GZA
Work Order: O24C0276
Project: 81.0220733.07, Landfill Profile North

Client Sample ID: C-1
Collection Date: 03/06/2024 09:55
Matrix: Solid

Lab ID: O24C0276-02 (Continued)

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains multiple sections for PCBs, Metals, Mercury, Wet Chemistry, and Cyanide testing.



Date Reported: 3/21/2024  
Date Printed: 3/21/2024

## Analytical Results

Customer: Huff & Huff, A subsidiary of GZA  
Work Order: O24C0276  
Project: 81.0220733.07, Landfill Profile North

Client Sample ID: C-1  
Collection Date: 03/06/2024 09:55  
Matrix: Solid

Lab ID: O24C0276-02 (Continued)

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
Wet Chemistry ILEPA 1002562023-16	SW9045C					Prep Date: 03/12/24 13:30	Analyst: AP3	
pH	7.90			pH Units	1	03/12/2024	B24C0380	
Wet Chemistry ILEPA 1002562023-16	SW9065					Prep Date: 03/07/24 10:00	Analyst: LN2	
Phenolics, Total Recoverable	ND	0.115		mg/Kg dry	1	03/07/2024	B24C0241	S24C0130
Wet Chemistry ILEPA 1002562023-16	SW9095					Prep Date: 03/14/24 16:21	Analyst: DM1	
Free Liquid	Pass			Pass/Fail	1	03/14/2024	B24C0502	

**Qualifiers:**

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated method blank
- HT - Sample received past holding time
- J1 - Estimated result based on MS/MSD results
- \* - Non-accredited parameter

- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- P - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded
- Q - Quality control issue. Please see case narrative





# Sample Receipt Checklist

Printed: 3/6/2024 6:37:10PM

Work Order: O24C0276

Client: Huff & Huff, A subsidiary of GZA  
Project: Code R

Date Due: Thursday, March 14, 2024

Received By: Connor Speidel  
Logged In By: Alan Slavick

Date Received: 3/6/2024 5:10:00PM  
Date Logged In: 3/6/2024 6:35:00PM

Cooler Name: Default Cooler

How were samples received: Client

Cooler temperature at of below 6 degrees Celsius: Yes

Chain of Custody present and properly completed : Yes

Turnaround Time is indicated and specified: No

Chain of Custody agrees with sample labels: Yes

Samples received within hold time: Yes

Proper sample containers received intact: Yes

Sufficient sample volume: Yes

Containers properly preserved: Yes

Custody seals present: No

Volatile water vials received: No

### Sample Receipt Comments

Work Order: O24C0276

The samples were received on 3/6/2024 5:10:00 PM. The temperature of the cooler(s) at receipt was:

Cooler: Temp C

Default Cooler 2.6

The samples were received in good condition and were properly preserved.

Samples going out of hold time within 24 hours:

---


---

---

---

Routine TAT has been entered

PM Communicate TAT has been entered

Reviewed By:  Date: 3/6/2024



sterling labs

- O'Hare Location

509 N. 3<sup>rd</sup> Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 [www.thesterlinglab.com](http://www.thesterlinglab.com)

March 21, 2024

Huff & Huff, A subsidiary of GZA  
915 Harger Road, Suite 330  
Oak Brook, IL 60523

Telephone: (630) 684-4429  
Fax: (630) 684-9120

Analytical Report for Work Order: O24C0275 Revision 0

RE: 81.0220733.07, Landfill Profile Southeast

Dear Huff & Huff, A subsidiary of GZA:

Sterling Labs has received 1 sample for the referenced project on March 6, 2024 17:10. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Pat 186 / TNI standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (847) 967-6666.

Sincerely,

Olga Karplyuk  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. Sterling Labs is not responsible for customer provided information found in the report that is used to calculate final results. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, Sterling Labs will be under no obligation to support, defend or discuss the analytical report*



sterling <sup>labs</sup>

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**Customer:** Huff & Huff, A subsidiary of GZA  
**Project:** 81.0220733.07, Landfill Profile Southeast  
**WorkOrder:** O24C0275

### Work Order Sample Summary

---

Laboratory ID	Sample ID	Tag Number	Collection Date	Date Received
O24C0275-01	SE-1		03/06/24 11:35	03/06/24 17:10



Date Reported: 3/21/2024
Date Printed: 3/21/2024

Analytical Results

Customer: Huff & Huff, A subsidiary of GZA
Work Order: O24C0275
Project: 81.0220733.07, Landfill Profile Southeast

Client Sample ID: SE-1
Collection Date: 03/06/2024 11:35
Matrix: Solid

Lab ID: O24C0275-01

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Volatile Organic Compounds by GC/MS. Sub-section: ILEPA 1002562023-16. Rows list various compounds like 1,1-Dichloroethene, 1,2-Dichloroethane, etc.

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Semivolatile Organic Compounds by GC/MS. Sub-section: ILEPA 1002562023-16. Rows list various compounds like 1,4-Dichlorobenzene, 2,4,5-Trichlorophenol, etc.



Date Reported: 3/21/2024  
Date Printed: 3/21/2024

## Analytical Results

Customer: Huff & Huff, A subsidiary of GZA  
Work Order: O24C0275  
Project: 81.0220733.07, Landfill Profile Southeast

Client Sample ID: SE-1  
Collection Date: 03/06/2024 11:35  
Matrix: Solid

Lab ID: O24C0275-01 (Continued)

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
<b>Polychlorinated Biphenyls (PCBs) by GC/ESW8082A / SW3546</b>				Prep Date:		<b>03/15/24 16:25</b>	Analyst: <b>KOP</b>	
<b>ILEPA 1002562023-16</b>								
Aroclor 1016	ND	0.0236		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
Aroclor 1221	ND	0.0707		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
Aroclor 1232	ND	0.0942		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
Aroclor 1242	ND	0.0353		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
Aroclor 1248	ND	0.0353		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
Aroclor 1254	ND	0.0236		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
Aroclor 1260	ND	0.0353		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
<b>Metals by ICP-AES</b>				Prep Date:		<b>03/12/24 13:13</b>	Analyst: <b>KJ1</b>	
<b>SW6010D / SW1311 / SW3015</b>								
<b>ILEPA 1002562023-16</b>								
Arsenic TCLP	ND	0.0500		mg/L	1	03/13/2024	B24C0375	S24C0223
Barium TCLP	<b>0.254</b>	0.0500		mg/L	1	03/13/2024	B24C0375	S24C0223
Cadmium TCLP	ND	0.00500		mg/L	1	03/13/2024	B24C0375	S24C0223
Chromium TCLP	ND	0.0500		mg/L	1	03/13/2024	B24C0375	S24C0223
Lead TCLP	ND	0.0500		mg/L	1	03/13/2024	B24C0375	S24C0223
Selenium TCLP	ND	0.0500		mg/L	1	03/13/2024	B24C0375	S24C0223
Silver TCLP	ND	0.00500		mg/L	1	03/13/2024	B24C0375	S24C0260
<b>Mercury by CVAA</b>				Prep Date:		<b>03/11/24 15:49</b>	Analyst: <b>ES1</b>	
<b>SW7470A / SW1311</b>								
<b>ILEPA 1002562023-16</b>								
Mercury TCLP	ND	0.00040		mg/L	1	03/12/2024	B24C0339	S24C0204
<b>Wet Chemistry</b>				Prep Date:		<b>03/15/24 16:26</b>	Analyst: <b>KR2</b>	
<b>ASTM D92-90</b>								
<b>ILEPA 1002562023-16</b>								
Ignitability (open cup)	>180	35.0		°F	1	03/15/2024	B24C0552	
<b>Wet Chemistry</b>				Prep Date:		<b>03/07/24 10:38</b>	Analyst: <b>PP1</b>	
<b>SM2540G</b>								
<b>ILEPA 1002562023-16</b>								
Total Solids	<b>83.0</b>	0.100		% (Percent)	1	03/08/2024	B24C0221	
<b>Wet Chemistry</b>				Prep Date:		<b>03/12/24 11:06</b>	Analyst: <b>LN2</b>	
<b>SW7.3.3.2/9014 by Discrete</b>								
<b>ILEPA 1002562023-16</b>								
Reactive Cyanide	ND	3.75		mg/Kg	1	03/12/2024	B24C0365	S24C0213
<b>Wet Chemistry</b>				Prep Date:		<b>03/12/24 11:00</b>	Analyst: <b>DW1</b>	
<b>SW7.3.4.2</b>								
<b>ILEPA 1002562023-16</b>								
Reactive Sulfide	ND	10.0		mg/Kg	2	03/12/2024	B24C0363	
<b>Wet Chemistry</b>				Prep Date:		<b>03/12/24 13:30</b>	Analyst: <b>AP3</b>	
<b>SW9045C</b>								
<b>ILEPA 1002562023-16</b>								



Date Reported: 3/21/2024
Date Printed: 3/21/2024

Analytical Results

Customer: Huff & Huff, A subsidiary of GZA
Work Order: O24C0275
Project: 81.0220733.07, Landfill Profile Southeast

Client Sample ID: SE-1
Collection Date: 03/06/2024 11:35
Matrix: Solid

Lab ID: O24C0275-01 (Continued)

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains three rows of test results for Wet Chemistry, ILEPA 1002562023-16, including pH and Phenolics, Total Recoverable.

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated method blank
HT - Sample received past holding time
J1 - Estimated result based on MS/MSD results
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
P - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded
Q - Quality control issue. Please see case narrative



# Sample Receipt Checklist

Printed: 3/6/2024 6:55:57PM

Work Order: O24C0275

Client: Huff & Huff, A subsidiary of GZA  
Project: Code R

Date Due: Thursday, March 14, 2024

Received By: Connor Speidel  
Logged In By: Alan Slavick

Date Received: 3/6/2024 5:10:00PM  
Date Logged In: 3/6/2024 6:55:00PM

Cooler Name: Default Cooler

How were samples received: Client

Cooler temperature at or below 6 degrees Celsius: Yes

Chain of Custody present and properly completed: Yes

Turnaround Time is indicated and specified: No

Chain of Custody agrees with sample labels: Yes

Samples received within hold time: Yes

Proper sample containers received intact: Yes

Sufficient sample volume: Yes

Containers properly preserved: Yes

Custody seals present: No

Volatile water vials received: No

### Sample Receipt Comments

Work Order: O24C0275


The samples were received on 3/6/2024 5:10:00 PM. The temperature of the cooler(s) at receipt was:

Cooler: Temp C  
Default Cooler 2.6

The samples were received in good condition and were properly preserved.

Samples going out of hold time within 24 hours:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Routine TAT has been entered   
PM Communicate TAT has been entered \_\_\_\_\_

Reviewed By:  Date: 3/6/2024



sterling labs

- O'Hare Location

509 N. 3<sup>rd</sup> Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 [www.thesterlinglab.com](http://www.thesterlinglab.com)

March 21, 2024

Huff & Huff, A subsidiary of GZA  
915 Harger Road, Suite 330  
Oak Brook, IL 60523

Telephone: (630) 684-4429  
Fax: (630) 684-9120

Analytical Report for Work Order: O24C0271 Revision 0

RE: 81.0220733.07, Landfill Profile South and West

Dear Huff & Huff, A subsidiary of GZA:

Sterling Labs has received 1 sample for the referenced project on March 6, 2024 17:10. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Pat 186 / TNI standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (847) 967-6666.

Sincerely,

Olga Karplyuk  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. Sterling Labs is not responsible for customer provided information found in the report that is used to calculate final results. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, Sterling Labs will be under no obligation to support, defend or discuss the analytical report*



sterling <sup>labs</sup>

- O'Hare Location

---

509 N. 3<sup>rd</sup> Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 [www.thesterlinglab.com](http://www.thesterlinglab.com)

**Customer:** Huff & Huff, A subsidiary of GZA  
**Project:** 81.0220733.07, Landfill Profile South and West  
**WorkOrder:** O24C0271

**Work Order Sample Summary**

---

Laboratory ID	Sample ID	Tag Number	Collection Date	Date Received
O24C0271-01	SW-1		03/06/24 10:40	03/06/24 17:10



Date Reported: 3/21/2024
Date Printed: 3/21/2024

Analytical Results

Customer: Huff & Huff, A subsidiary of GZA
Work Order: O24C0271
Project: 81.0220733.07, Landfill Profile South and West

Client Sample ID: SW-1
Collection Date: 03/06/2024 10:40
Matrix: Solid

Lab ID: O24C0271-01

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains two sections: Volatile Organic Compounds by GC/MS and Semivolatile Organic Compounds by GC/MS.



Date Reported: 3/21/2024  
Date Printed: 3/21/2024

## Analytical Results

**Customer:** Huff & Huff, A subsidiary of GZA  
**Work Order:** O24C0271  
**Project:** 81.0220733.07, Landfill Profile South and West

**Client Sample ID:** SW-1  
**Collection Date:** 03/06/2024 10:40  
**Matrix:** Solid

Lab ID: O24C0271-01 (Continued)

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
<b>Polychlorinated Biphenyls (PCBs) by GC/ESW8082A / SW3546</b>				Prep Date:		<b>03/15/24 16:25</b>	Analyst: <b>KOP</b>	
<b>ILEPA 1002562023-16</b>								
Aroclor 1016	ND	0.0273		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
Aroclor 1221	ND	0.0820		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
Aroclor 1232	ND	0.109		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
Aroclor 1242	ND	0.0410		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
Aroclor 1248	ND	0.0410		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
Aroclor 1254	ND	0.0273		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
Aroclor 1260	ND	0.0410		mg/Kg dry	1	03/18/2024	B24C0495	S24C0396
<b>Metals by ICP-AES</b>				Prep Date:		<b>03/12/24 13:13</b>	Analyst: <b>KJ1</b>	
<b>SW6010D / SW1311 / SW3015</b>								
<b>ILEPA 1002562023-16</b>								
Arsenic TCLP	ND	0.0500		mg/L	1	03/13/2024	B24C0375	S24C0223
<b>Barium TCLP</b>	<b>0.475</b>	0.0500		mg/L	1	03/13/2024	B24C0375	S24C0223
Cadmium TCLP	ND	0.00500		mg/L	1	03/13/2024	B24C0375	S24C0223
Chromium TCLP	ND	0.0500		mg/L	1	03/13/2024	B24C0375	S24C0223
<b>Lead TCLP</b>	<b>0.123</b>	0.0500		mg/L	1	03/13/2024	B24C0375	S24C0223
Selenium TCLP	ND	0.0500		mg/L	1	03/13/2024	B24C0375	S24C0223
Silver TCLP	ND	0.00500		mg/L	1	03/13/2024	B24C0375	S24C0260
<b>Mercury by CVAA</b>				Prep Date:		<b>03/11/24 15:49</b>	Analyst: <b>ES1</b>	
<b>SW7470A / SW1311</b>								
<b>ILEPA 1002562023-16</b>								
Mercury TCLP	ND	0.00040		mg/L	1	03/12/2024	B24C0339	S24C0204
<b>Wet Chemistry</b>				Prep Date:		<b>03/11/24 16:50</b>	Analyst: <b>KR2</b>	
<b>ASTM D92-90</b>								
<b>ILEPA 1002562023-16</b>								
Ignitability (open cup)	>180	35.0		°F	1	03/11/2024	B24C0344	
<b>Wet Chemistry</b>				Prep Date:		<b>03/07/24 10:38</b>	Analyst: <b>PP1</b>	
<b>SM2540G</b>								
<b>ILEPA 1002562023-16</b>								
Total Solids	71.3	0.100		% (Percent)	1	03/08/2024	B24C0221	
<b>Wet Chemistry</b>				Prep Date:		<b>03/12/24 11:06</b>	Analyst: <b>LN2</b>	
<b>SW7.3.3.2/9014 by Discrete</b>								
<b>ILEPA 1002562023-16</b>								
Reactive Cyanide	ND	3.75		mg/Kg	1	03/12/2024	B24C0365	S24C0213
<b>Wet Chemistry</b>				Prep Date:		<b>03/12/24 11:00</b>	Analyst: <b>DW1</b>	
<b>SW7.3.4.2</b>								
<b>ILEPA 1002562023-16</b>								
Reactive Sulfide	ND	10.0		mg/Kg	2	03/12/2024	B24C0363	
<b>Wet Chemistry</b>				Prep Date:		<b>03/12/24 13:30</b>	Analyst: <b>AP3</b>	
<b>SW9045C</b>								
<b>ILEPA 1002562023-16</b>								



Date Reported: 3/21/2024  
Date Printed: 3/21/2024

## Analytical Results

Customer: Huff & Huff, A subsidiary of GZA  
Work Order: O24C0271  
Project: 81.0220733.07, Landfill Profile South and West

Client Sample ID: SW-1  
Collection Date: 03/06/2024 10:40  
Matrix: Solid

Lab ID: O24C0271-01 (Continued)

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
Wet Chemistry ILEPA 1002562023-16	SW9045C					Prep Date: 03/12/24 13:30	Analyst: AP3	
pH	7.36			pH Units	1	03/12/2024	B24C0380	
Wet Chemistry ILEPA 1002562023-16	SW9065					Prep Date: 03/07/24 10:00	Analyst: LN2	
Phenolics, Total Recoverable	0.137	0.133		mg/Kg dry	1	03/07/2024	B24C0241	S24C0130
Wet Chemistry ILEPA 1002562023-16	SW9095					Prep Date: 03/08/24 16:20	Analyst: KR2	
Free Liquid	Pass			Pass/Fail	1	03/08/2024	B24C0290	

**Qualifiers:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated method blank  
HT - Sample received past holding time  
J1 - Estimated result based on MS/MSD results  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
P - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded  
Q - Quality control issue. Please see case narrative



# Sample Receipt Checklist

Printed: 3/6/2024 6:53:10PM

Work Order: O24C0271

Client: Huff & Huff, A subsidiary of GZA  
Project: Code R

Date Due: Thursday, March 14, 2024

Received By: Connor Speidel  
Logged In By: Alan Slavick

Date Received: 3/6/2024 5:10:00PM  
Date Logged In: 3/6/2024 6:52:00PM

Cooler Name: Default Cooler

How were samples received: EMT

Cooler temperature at of below 6 degrees Celsius: Yes

Chain of Custody present and properly completed : Yes

Turnaround Time is indicated and specified: No

Chain of Custody agrees with sample labels: Yes

Samples received within hold time: Yes

Proper sample containers received intact: Yes

Sufficient sample volume: Yes

Containers properly preserved: Yes

Custody seals present: No

Volatile water vials received: No

### Sample Receipt Comments

Work Order: O24C0271

The samples were received on 3/6/2024 5:10:00 PM. The temperature of the cooler(s) at receipt was:

Cooler: Temp C  
Default Cooler 2.6

The samples were received in good condition and were properly preserved.

Samples going out of hold time within 24 hours:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Routine TAT has been entered   
PM Communicate TAT has been entered \_\_\_\_\_

Reviewed By:  Date: 03/06/2024

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

March 15, 2023

Huff & Huff, Inc.  
915 Harger Road  
Oak Brook, IL 60523-1486

Telephone: (630) 684-9100  
Fax: (630) 684-9120

Analytical Report for STAT Work Order: 23030053 Revision 0

RE: 81.0220733.07, Landfill Profile Central, Chicago, IL.

Dear Huff & Huff, Inc.:

STAT Analysis received 1 sample for the referenced project on 3/1/2023 4:21:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Huff & Huff, Inc.

**Project:** 81.0220733.07, Landfill Profile Central, Chicago, IL.

**Work Order Sample Summary**

**Work Order:** 23030053 Revision 0

---

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
23030053-001A	C-1		3/1/2023 3:10:00 PM	3/1/2023

---

**CLIENT:** Huff & Huff, Inc.  
**Project:** 81.0220733.07, Landfill Profile Central, Chicago, IL.  
**Work Order:** 23030053 Revision 0

---

**CASE NARRATIVE**

The following parameters apply to sample C-1 (23030053-001):  
Reactivity with Water: Sample effervesced with no temperature change  
Reactivity with Base: Sample effervesced with no temperature change  
Reactivity with Acid: Sample effervesced with no temperature change  
Odor: None  
Physical Description: Black and brown soil with rocks

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: March 15, 2023

**ANALYTICAL RESULTS**

Date Printed: March 15, 2023

Client: Huff &amp; Huff, Inc.

Client Sample ID: C-1

Work Order: 23030053 Revision 0

Collection Date: 3/1/2023 3:10:00 PM

Project: 81.0220733.07, Landfill Profile Central, Chicago, I

Matrix: Soil

Lab ID: 23030053-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Volatile Organic Compounds by GC/MS</b>	<b>SW1311/8260B (SW5030B)</b>		Prep Date: <b>3/2/2023</b>		Analyst: <b>CDM</b>	
Benzene	ND	0.050		mg/L	10	3/3/2023
2-Butanone	ND	0.20		mg/L	10	3/3/2023
Carbon tetrachloride	ND	0.050		mg/L	10	3/3/2023
Chlorobenzene	ND	0.050		mg/L	10	3/3/2023
Chloroform	ND	0.050		mg/L	10	3/3/2023
1,2-Dichloroethane	ND	0.050		mg/L	10	3/3/2023
1,1-Dichloroethene	ND	0.050		mg/L	10	3/3/2023
Tetrachloroethene	ND	0.050		mg/L	10	3/3/2023
Trichloroethene	ND	0.050		mg/L	10	3/3/2023
Vinyl chloride	ND	0.050		mg/L	10	3/3/2023
<b>TCLP Semivolatile Organic Compounds</b>	<b>SW1311/8270C (SW3510C)</b>		Prep Date: <b>3/9/2023</b>		Analyst: <b>TEM</b>	
1,4-Dichlorobenzene	ND	0.010		mg/L	1	3/9/2023
2,4-Dinitrotoluene	ND	0.010		mg/L	1	3/9/2023
Hexachlorobenzene	ND	0.010		mg/L	1	3/9/2023
Hexachlorobutadiene	ND	0.010		mg/L	1	3/9/2023
Hexachloroethane	ND	0.010		mg/L	1	3/9/2023
Nitrobenzene	ND	0.010		mg/L	1	3/9/2023
2-Methylphenol	ND	0.010		mg/L	1	3/9/2023
3- & 4-Methylphenol	ND	0.010		mg/L	1	3/9/2023
Pentachlorophenol	ND	0.050		mg/L	1	3/9/2023
Pyridine	ND	0.010		mg/L	1	3/9/2023
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	3/9/2023
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	3/9/2023
<b>PCBs</b>	<b>SW8082A (SW3550B)</b>		Prep Date: <b>3/2/2023</b>		Analyst: <b>LV</b>	
Aroclor 1016	ND	0.10		mg/Kg-dry	1	3/2/2023
Aroclor 1221	ND	0.10		mg/Kg-dry	1	3/2/2023
Aroclor 1232	ND	0.10		mg/Kg-dry	1	3/2/2023
Aroclor 1242	ND	0.10		mg/Kg-dry	1	3/2/2023
Aroclor 1248	ND	0.10		mg/Kg-dry	1	3/2/2023
Aroclor 1254	ND	0.10		mg/Kg-dry	1	3/2/2023
Aroclor 1260	ND	0.10		mg/Kg-dry	1	3/2/2023
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>3/9/2023</b>		Analyst: <b>MDS</b>	
Arsenic	ND	0.010		mg/L	5	3/10/2023
Barium	0.75	0.050		mg/L	5	3/10/2023
Cadmium	ND	0.0050		mg/L	5	3/10/2023
Chromium	ND	0.010		mg/L	5	3/10/2023
Copper	ND	0.10		mg/L	5	3/10/2023

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: March 15, 2023

**ANALYTICAL RESULTS**

Date Printed: March 15, 2023

Client: Huff &amp; Huff, Inc.

Client Sample ID: C-1

Work Order: 23030053 Revision 0

Collection Date: 3/1/2023 3:10:00 PM

Project: 81.0220733.07, Landfill Profile Central, Chicago, I

Matrix: Soil

Lab ID: 23030053-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>			Prep Date: <b>3/9/2023</b>		Analyst: <b>MDS</b>
Lead	0.15	0.0050		mg/L	5	3/10/2023
Nickel	0.023	0.010		mg/L	5	3/10/2023
Selenium	ND	0.010		mg/L	5	3/10/2023
Silver	ND	0.010		mg/L	5	3/10/2023
Zinc	0.77	0.050		mg/L	5	3/10/2023
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>			Prep Date: <b>3/9/2023</b>		Analyst: <b>SH</b>
Mercury	ND	0.00020		mg/L	1	3/10/2023
<b>Cyanide, Reactive</b>	<b>SW7.3.3.2</b>			Prep Date: <b>3/6/2023</b>		Analyst: <b>SJI</b>
Reactive Cyanide	ND	1.0	*	mg/Kg	1	3/6/2023
<b>Sulfide, Reactive</b>	<b>SW7.3.4.2</b>			Prep Date: <b>3/3/2023</b>		Analyst: <b>MD</b>
Reactive Sulfide	ND	10	*	mg/Kg	1	3/3/2023
<b>Phenolics</b>	<b>SW9066 (SW9065)</b>			Prep Date: <b>3/8/2023</b>		Analyst: <b>MD</b>
Phenolics, Total Recoverable	ND	0.64		mg/Kg-dry	1	3/8/2023
<b>pH (25 °C)</b>	<b>SW9045C</b>			Prep Date: <b>3/7/2023</b>		Analyst: <b>BAS</b>
pH	8.10			pH Units	1	3/7/2023
<b>Flash Point (Open-Cup)</b>	<b>SW1010(M)</b>			Prep Date: <b>3/2/2023</b>		Analyst: <b>RW</b>
Flashpoint	No flash up to 212		*	°F	1	3/2/2023
<b>Percent Moisture</b>	<b>D2974</b>			Prep Date: <b>3/3/2023</b>		Analyst: <b>RW</b>
Percent Moisture	22.0	0.2	*	wt%	1	3/6/2023
<b>Solids, Total</b>	<b>D2974</b>			Prep Date: <b>3/3/2023</b>		Analyst: <b>RW</b>
Total Solid	78.0	0.2	*	wt%	1	3/6/2023
<b>Paint Filter</b>	<b>SW9095A</b>			Prep Date: <b>3/2/2023</b>		Analyst: <b>RW</b>
Paint Filter	Pass			Pass/Fail	1	3/2/2023

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



**Sample Receipt Checklist**

Client Name HUFF & HUFF

Date and Time Received: 3/1/2023 4:21:00 PM

Work Order Number 23030053

Received by: MRH

Checklist completed by:

Signature: [Handwritten Signature] Date: 3-1-2023

Reviewed by:

Initials: MR Date: 3/1/2023

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature 2.6 °C
- Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

Comments:

Client / Person

contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response:

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

March 15, 2023

Huff & Huff, Inc.  
915 Harger Road  
Oak Brook, IL 60523-1486

Telephone: (630) 684-9100  
Fax: (630) 684-9120

Analytical Report for STAT Work Order: 23030090 Revision 0

RE: 81.0220733.07, Landfill Profile North, Chicago, IL.

Dear Huff & Huff, Inc.:

STAT Analysis received 1 sample for the referenced project on 3/2/2023 4:20:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Huff & Huff, Inc.  
**Project:** 81.0220733.07, Landfill Profile North, Chicago, IL.  
**Work Order:** 23030090 Revision 0

**Work Order Sample Summary**

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
23030090-001A	N-1		3/2/2023 3:30:00 PM	3/2/2023

---

**CLIENT:** Huff & Huff, Inc.  
**Project:** 81.0220733.07, Landfill Profile North, Chicago, IL.  
**Work Order:** 23030090 Revision 0

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**CASE NARRATIVE**

The following parameters apply to sample N-1 (23030090-001):  
Reactivity with Water: Sample effervesced with no temperature change  
Reactivity with Base: Sample effervesced with no temperature change  
Reactivity with Acid: Sample effervesced with no temperature change  
Odor: None  
Physical Description: Black and brown soil with rocks

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: March 15, 2023

**ANALYTICAL RESULTS**

Date Printed: March 15, 2023

Client: Huff &amp; Huff, Inc.

Client Sample ID: N-1

Work Order: 23030090 Revision 0

Collection Date: 3/2/2023 3:30:00 PM

Project: 81.0220733.07, Landfill Profile North, Chicago, IL.

Matrix: Soil

Lab ID: 23030090-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Volatile Organic Compounds by GC/MS</b>	<b>SW1311/8260B (SW5030B)</b>		Prep Date: <b>3/3/2023</b>		Analyst: <b>CBG</b>	
Benzene	ND	0.050		mg/L	10	3/5/2023
2-Butanone	ND	0.20		mg/L	10	3/5/2023
Carbon tetrachloride	ND	0.050		mg/L	10	3/5/2023
Chlorobenzene	ND	0.050		mg/L	10	3/5/2023
Chloroform	ND	0.050		mg/L	10	3/5/2023
1,2-Dichloroethane	ND	0.050		mg/L	10	3/5/2023
1,1-Dichloroethene	ND	0.050		mg/L	10	3/5/2023
Tetrachloroethene	ND	0.050		mg/L	10	3/5/2023
Trichloroethene	ND	0.050		mg/L	10	3/5/2023
Vinyl chloride	ND	0.050		mg/L	10	3/5/2023
<b>TCLP Semivolatile Organic Compounds</b>	<b>SW1311/8270C (SW3510C)</b>		Prep Date: <b>3/13/2023</b>		Analyst: <b>TEM</b>	
1,4-Dichlorobenzene	ND	0.010		mg/L	1	3/14/2023
2,4-Dinitrotoluene	ND	0.010		mg/L	1	3/14/2023
Hexachlorobenzene	ND	0.010		mg/L	1	3/14/2023
Hexachlorobutadiene	ND	0.010		mg/L	1	3/14/2023
Hexachloroethane	ND	0.010		mg/L	1	3/14/2023
Nitrobenzene	ND	0.010		mg/L	1	3/14/2023
2-Methylphenol	ND	0.010		mg/L	1	3/14/2023
3- & 4-Methylphenol	ND	0.010		mg/L	1	3/14/2023
Pentachlorophenol	ND	0.050		mg/L	1	3/14/2023
Pyridine	ND	0.010		mg/L	1	3/14/2023
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	3/14/2023
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	3/14/2023
<b>PCBs</b>	<b>SW8082A (SW3550B)</b>		Prep Date: <b>3/6/2023</b>		Analyst: <b>LV</b>	
Aroclor 1016	ND	0.093		mg/Kg-dry	1	3/6/2023
Aroclor 1221	ND	0.093		mg/Kg-dry	1	3/6/2023
Aroclor 1232	ND	0.093		mg/Kg-dry	1	3/6/2023
Aroclor 1242	ND	0.093		mg/Kg-dry	1	3/6/2023
Aroclor 1248	ND	0.093		mg/Kg-dry	1	3/6/2023
Aroclor 1254	ND	0.093		mg/Kg-dry	1	3/6/2023
Aroclor 1260	ND	0.093		mg/Kg-dry	1	3/6/2023
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>3/13/2023</b>		Analyst: <b>MDS</b>	
Arsenic	ND	0.010		mg/L	5	3/13/2023
Barium	0.55	0.050		mg/L	5	3/13/2023
Cadmium	ND	0.0050		mg/L	5	3/13/2023
Chromium	ND	0.010		mg/L	5	3/13/2023
Copper	ND	0.10		mg/L	5	3/13/2023

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: March 15, 2023

Date Printed: March 15, 2023

**ANALYTICAL RESULTS**

Client: Huff &amp; Huff, Inc.

Client Sample ID: N-1

Work Order: 23030090 Revision 0

Collection Date: 3/2/2023 3:30:00 PM

Project: 81.0220733.07, Landfill Profile North, Chicago, IL.

Matrix: Soil

Lab ID: 23030090-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>			Prep Date: <b>3/13/2023</b>		Analyst: <b>MDS</b>
Lead	0.057	0.0050		mg/L	5	3/13/2023
Nickel	0.015	0.010		mg/L	5	3/13/2023
Selenium	ND	0.010		mg/L	5	3/13/2023
Silver	ND	0.010		mg/L	5	3/13/2023
Zinc	0.29	0.050		mg/L	5	3/13/2023
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>			Prep Date: <b>3/13/2023</b>		Analyst: <b>SH</b>
Mercury	ND	0.00020		mg/L	1	3/13/2023
<b>Cyanide, Reactive</b>	<b>SW7.3.3.2</b>			Prep Date: <b>3/6/2023</b>		Analyst: <b>SJI</b>
Reactive Cyanide	ND	1.0	*	mg/Kg	1	3/6/2023
<b>Sulfide, Reactive</b>	<b>SW7.3.4.2</b>			Prep Date: <b>3/3/2023</b>		Analyst: <b>MD</b>
Reactive Sulfide	ND	10	*	mg/Kg	1	3/3/2023
<b>Phenolics</b>	<b>SW9066 (SW9065)</b>			Prep Date: <b>3/8/2023</b>		Analyst: <b>MD</b>
Phenolics, Total Recoverable	ND	0.59		mg/Kg-dry	1	3/8/2023
<b>pH (25 °C)</b>	<b>SW9045C</b>			Prep Date: <b>3/7/2023</b>		Analyst: <b>BAS</b>
pH	8.47			pH Units	1	3/7/2023
<b>Flash Point (Open-Cup)</b>	<b>SW1010(M)</b>			Prep Date: <b>3/3/2023</b>		Analyst: <b>RW</b>
Flashpoint	No flash up to 212		*	°F	1	3/3/2023
<b>Percent Moisture</b>	<b>D2974</b>			Prep Date: <b>3/3/2023</b>		Analyst: <b>RW</b>
Percent Moisture	15.1	0.2	*	wt%	1	3/6/2023
<b>Solids, Total</b>	<b>D2974</b>			Prep Date: <b>3/3/2023</b>		Analyst: <b>RW</b>
Total Solid	84.9	0.2	*	wt%	1	3/6/2023
<b>Paint Filter</b>	<b>SW9095A</b>			Prep Date: <b>3/3/2023</b>		Analyst: <b>RW</b>
Paint Filter	Pass			Pass/Fail	1	3/3/2023

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



**Sample Receipt Checklist**

Client Name **HUFF & HUFF**

Date and Time Received: **3/2/2023 4:20:00 PM**

Work Order Number **23030090**

Received by: **JMH**

Checklist completed by: Juan Herrera 3-2-2023  
Signature Date

Reviewed by: JM 3/3/2023  
Initials Date

Matrix: \_\_\_\_\_ Carrier name STAT Analysis

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature On Ice °C
- Water - VOA vials have zero headspace?  No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

-----

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

March 15, 2023

Huff & Huff, Inc.  
915 Harger Road  
Oak Brook, IL 60523-1486

Telephone: (630) 684-9100  
Fax: (630) 684-9120

Analytical Report for STAT Work Order: 23030089 Revision 0

RE: 81.0220733.07, Landfill Profile Southeast, Chicago, IL.

Dear Huff & Huff, Inc.:

STAT Analysis received 1 sample for the referenced project on 3/2/2023 4:20:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Huff & Huff, Inc.

**Project:** 81.0220733.07, Landfill Profile Southeast, Chicago, IL

**Work Order Sample Summary**

**Work Order:** 23030089 Revision 0

---

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
23030089-001A	SE-1		3/2/2023 3:35:00 PM	3/2/2023

---

**CLIENT:** Huff & Huff, Inc.  
**Project:** 81.0220733.07, Landfill Profile Southeast, Chicago, IL.  
**Work Order:** 23030089 Revision 0

---

**CASE NARRATIVE**

The following parameters apply to sample SE-1 (23030089-001):  
Reactivity with Water: Sample effervesced with no temperature change  
Reactivity with Base: Sample effervesced with no temperature change  
Reactivity with Acid: Sample effervesced with no temperature change  
Odor: None  
Physical Description: Black and brown soil with rocks

**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: March 15, 2023

**ANALYTICAL RESULTS**

Date Printed: March 15, 2023

Client: Huff &amp; Huff, Inc.

Client Sample ID: SE-1

Work Order: 23030089 Revision 0

Collection Date: 3/2/2023 3:35:00 PM

Project: 81.0220733.07, Landfill Profile Southeast, Chicago

Matrix: Soil

Lab ID: 23030089-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Volatile Organic Compounds by GC/MS</b>	<b>SW1311/8260B (SW5030B)</b>		Prep Date: <b>3/3/2023</b>		Analyst: <b>CBG</b>	
Benzene	ND	0.050		mg/L	10	3/5/2023
2-Butanone	ND	0.20		mg/L	10	3/5/2023
Carbon tetrachloride	ND	0.050		mg/L	10	3/5/2023
Chlorobenzene	ND	0.050		mg/L	10	3/5/2023
Chloroform	ND	0.050		mg/L	10	3/5/2023
1,2-Dichloroethane	ND	0.050		mg/L	10	3/5/2023
1,1-Dichloroethene	ND	0.050		mg/L	10	3/5/2023
Tetrachloroethene	ND	0.050		mg/L	10	3/5/2023
Trichloroethene	ND	0.050		mg/L	10	3/5/2023
Vinyl chloride	ND	0.050		mg/L	10	3/5/2023
<b>TCLP Semivolatile Organic Compounds</b>	<b>SW1311/8270C (SW3510C)</b>		Prep Date: <b>3/13/2023</b>		Analyst: <b>TEM</b>	
1,4-Dichlorobenzene	ND	0.010		mg/L	1	3/14/2023
2,4-Dinitrotoluene	ND	0.010		mg/L	1	3/14/2023
Hexachlorobenzene	ND	0.010		mg/L	1	3/14/2023
Hexachlorobutadiene	ND	0.010		mg/L	1	3/14/2023
Hexachloroethane	ND	0.010		mg/L	1	3/14/2023
Nitrobenzene	ND	0.010		mg/L	1	3/14/2023
2-Methylphenol	ND	0.010		mg/L	1	3/14/2023
3- & 4-Methylphenol	ND	0.010		mg/L	1	3/14/2023
Pentachlorophenol	ND	0.050		mg/L	1	3/14/2023
Pyridine	ND	0.010		mg/L	1	3/14/2023
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	3/14/2023
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	3/14/2023
<b>PCBs</b>	<b>SW8082A (SW3550B)</b>		Prep Date: <b>3/6/2023</b>		Analyst: <b>LV</b>	
Aroclor 1016	ND	0.095		mg/Kg-dry	1	3/6/2023
Aroclor 1221	ND	0.095		mg/Kg-dry	1	3/6/2023
Aroclor 1232	ND	0.095		mg/Kg-dry	1	3/6/2023
Aroclor 1242	ND	0.095		mg/Kg-dry	1	3/6/2023
Aroclor 1248	ND	0.095		mg/Kg-dry	1	3/6/2023
Aroclor 1254	ND	0.095		mg/Kg-dry	1	3/6/2023
Aroclor 1260	ND	0.095		mg/Kg-dry	1	3/6/2023
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>3/13/2023</b>		Analyst: <b>MDS</b>	
Arsenic	ND	0.010		mg/L	5	3/13/2023
Barium	0.50	0.050		mg/L	5	3/13/2023
Cadmium	ND	0.0050		mg/L	5	3/13/2023
Chromium	ND	0.010		mg/L	5	3/13/2023
Copper	ND	0.10		mg/L	5	3/13/2023

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: March 15, 2023

**ANALYTICAL RESULTS**

Date Printed: March 15, 2023

Client: Huff &amp; Huff, Inc.

Client Sample ID: SE-1

Work Order: 23030089 Revision 0

Collection Date: 3/2/2023 3:35:00 PM

Project: 81.0220733.07, Landfill Profile Southeast, Chicago

Matrix: Soil

Lab ID: 23030089-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>			Prep Date: <b>3/13/2023</b>		Analyst: <b>MDS</b>
Lead	0.11	0.0050		mg/L	5	3/13/2023
Nickel	0.021	0.010		mg/L	5	3/13/2023
Selenium	ND	0.010		mg/L	5	3/13/2023
Silver	ND	0.010		mg/L	5	3/13/2023
Zinc	0.68	0.050		mg/L	5	3/13/2023
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>			Prep Date: <b>3/13/2023</b>		Analyst: <b>SH</b>
Mercury	ND	0.00020		mg/L	1	3/13/2023
<b>Cyanide, Reactive</b>	<b>SW7.3.3.2</b>			Prep Date: <b>3/6/2023</b>		Analyst: <b>SJI</b>
Reactive Cyanide	ND	1.0	*	mg/Kg	1	3/6/2023
<b>Sulfide, Reactive</b>	<b>SW7.3.4.2</b>			Prep Date: <b>3/3/2023</b>		Analyst: <b>MD</b>
Reactive Sulfide	ND	10	*	mg/Kg	1	3/3/2023
<b>Phenolics</b>	<b>SW9066 (SW9065)</b>			Prep Date: <b>3/8/2023</b>		Analyst: <b>MD</b>
Phenolics, Total Recoverable	0.75	0.60		mg/Kg-dry	1	3/8/2023
<b>pH (25 °C)</b>	<b>SW9045C</b>			Prep Date: <b>3/7/2023</b>		Analyst: <b>BAS</b>
pH	8.37			pH Units	1	3/7/2023
<b>Flash Point (Open-Cup)</b>	<b>SW1010(M)</b>			Prep Date: <b>3/3/2023</b>		Analyst: <b>RW</b>
Flashpoint	No flash up to 212		*	°F	1	3/3/2023
<b>Percent Moisture</b>	<b>D2974</b>			Prep Date: <b>3/3/2023</b>		Analyst: <b>RW</b>
Percent Moisture	16.5	0.2	*	wt%	1	3/6/2023
<b>Solids, Total</b>	<b>D2974</b>			Prep Date: <b>3/3/2023</b>		Analyst: <b>RW</b>
Total Solid	83.5	0.2	*	wt%	1	3/6/2023
<b>Paint Filter</b>	<b>SW9095A</b>			Prep Date: <b>3/3/2023</b>		Analyst: <b>RW</b>
Paint Filter	Pass			Pass/Fail	1	3/3/2023

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



**Sample Receipt Checklist**

Client Name HUFF & HUFF

Date and Time Received: 3/2/2023 4:20:00 PM

Work Order Number 23030089

Received by: JMH

Checklist completed by: Juan Herrera 3-2-2023  
Signature Date

Reviewed by: JMH 3/3/2023  
Initials Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature On Ice °C
- Water - VOA vials have zero headspace?  No VOA vials submitted Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

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Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

March 15, 2023

Huff & Huff, Inc.  
915 Harger Road  
Oak Brook, IL 60523-1486

Telephone: (630) 684-9100  
Fax: (630) 684-9120

Analytical Report for STAT Work Order: 23030052 Revision 0

RE: 81.0220733.07, Landfill Profile South & West, Chicago, IL.

Dear Huff & Huff, Inc.:

STAT Analysis received 1 sample for the referenced project on 3/1/2023 4:20:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Huff & Huff, Inc.

**Project:** 81.0220733.07, Landfill Profile South & West, Chicag

**Work Order Sample Summary**

**Work Order:** 23030052 Revision 0

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
23030052-001A	SW-1		3/1/2023 3:00:00 PM	3/1/2023

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**CLIENT:** Huff & Huff, Inc.  
**Project:** 81.0220733.07, Landfill Profile South & West, Chicago, IL.  
**Work Order:** 23030052 Revision 0

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**CASE NARRATIVE**

The following parameters apply to sample SW-1 (23030052-001):  
Reactivity with Water: Sample effervesced with no temperature change  
Reactivity with Base: Sample effervesced with no temperature change  
Reactivity with Acid: Sample effervesced with no temperature change  
Odor: None  
Physical Description: Black and brown soil with rocks

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: March 15, 2023

**ANALYTICAL RESULTS**

Date Printed: March 15, 2023

Client: Huff &amp; Huff, Inc.

Client Sample ID: SW-1

Work Order: 23030052 Revision 0

Collection Date: 3/1/2023 3:00:00 PM

Project: 81.0220733.07, Landfill Profile South &amp; West, Chi

Matrix: Soil

Lab ID: 23030052-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Volatile Organic Compounds by GC/MS</b>	<b>SW1311/8260B (SW5030B)</b>		Prep Date: <b>3/2/2023</b>		Analyst: <b>CDM</b>	
Benzene	ND	0.050		mg/L	10	3/3/2023
2-Butanone	ND	0.20		mg/L	10	3/3/2023
Carbon tetrachloride	ND	0.050		mg/L	10	3/3/2023
Chlorobenzene	ND	0.050		mg/L	10	3/3/2023
Chloroform	ND	0.050		mg/L	10	3/3/2023
1,2-Dichloroethane	ND	0.050		mg/L	10	3/3/2023
1,1-Dichloroethene	ND	0.050		mg/L	10	3/3/2023
Tetrachloroethene	ND	0.050		mg/L	10	3/3/2023
Trichloroethene	ND	0.050		mg/L	10	3/3/2023
Vinyl chloride	ND	0.050		mg/L	10	3/3/2023
<b>TCLP Semivolatile Organic Compounds</b>	<b>SW1311/8270C (SW3510C)</b>		Prep Date: <b>3/9/2023</b>		Analyst: <b>TEM</b>	
1,4-Dichlorobenzene	ND	0.010		mg/L	1	3/9/2023
2,4-Dinitrotoluene	ND	0.010		mg/L	1	3/9/2023
Hexachlorobenzene	ND	0.010		mg/L	1	3/9/2023
Hexachlorobutadiene	ND	0.010		mg/L	1	3/9/2023
Hexachloroethane	ND	0.010		mg/L	1	3/9/2023
Nitrobenzene	ND	0.010		mg/L	1	3/9/2023
2-Methylphenol	ND	0.010		mg/L	1	3/9/2023
3- & 4-Methylphenol	ND	0.010		mg/L	1	3/9/2023
Pentachlorophenol	ND	0.050		mg/L	1	3/9/2023
Pyridine	ND	0.010		mg/L	1	3/9/2023
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	3/9/2023
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	3/9/2023
<b>PCBs</b>	<b>SW8082A (SW3550B)</b>		Prep Date: <b>3/2/2023</b>		Analyst: <b>LV</b>	
Aroclor 1016	ND	0.10		mg/Kg-dry	1	3/2/2023
Aroclor 1221	ND	0.10		mg/Kg-dry	1	3/2/2023
Aroclor 1232	ND	0.10		mg/Kg-dry	1	3/2/2023
Aroclor 1242	ND	0.10		mg/Kg-dry	1	3/2/2023
Aroclor 1248	ND	0.10		mg/Kg-dry	1	3/2/2023
Aroclor 1254	ND	0.10		mg/Kg-dry	1	3/2/2023
Aroclor 1260	ND	0.10		mg/Kg-dry	1	3/2/2023
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>3/9/2023</b>		Analyst: <b>MDS</b>	
Arsenic	ND	0.010		mg/L	5	3/14/2023
Barium	0.87	0.050		mg/L	5	3/14/2023
Cadmium	0.0065	0.0050		mg/L	5	3/14/2023
Chromium	ND	0.010		mg/L	5	3/14/2023
Copper	ND	0.10		mg/L	5	3/14/2023

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: March 15, 2023

Date Printed: March 15, 2023

**ANALYTICAL RESULTS**

Client: Huff &amp; Huff, Inc.

Client Sample ID: SW-1

Work Order: 23030052 Revision 0

Collection Date: 3/1/2023 3:00:00 PM

Project: 81.0220733.07, Landfill Profile South &amp; West, Chi

Matrix: Soil

Lab ID: 23030052-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>			Prep Date: <b>3/9/2023</b>		Analyst: <b>MDS</b>
Lead	0.12	0.0050		mg/L	5	3/14/2023
Nickel	0.022	0.010		mg/L	5	3/14/2023
Selenium	ND	0.010		mg/L	5	3/14/2023
Silver	ND	0.010		mg/L	5	3/14/2023
Zinc	0.37	0.050		mg/L	5	3/14/2023
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>			Prep Date: <b>3/9/2023</b>		Analyst: <b>SH</b>
Mercury	ND	0.00020		mg/L	1	3/10/2023
<b>Cyanide, Reactive</b>	<b>SW7.3.3.2</b>			Prep Date: <b>3/6/2023</b>		Analyst: <b>SJI</b>
Reactive Cyanide	ND	1.0	*	mg/Kg	1	3/6/2023
<b>Sulfide, Reactive</b>	<b>SW7.3.4.2</b>			Prep Date: <b>3/3/2023</b>		Analyst: <b>MD</b>
Reactive Sulfide	ND	10	*	mg/Kg	1	3/3/2023
<b>Phenolics</b>	<b>SW9066 (SW9065)</b>			Prep Date: <b>3/8/2023</b>		Analyst: <b>MD</b>
Phenolics, Total Recoverable	ND	0.64		mg/Kg-dry	1	3/8/2023
<b>pH (25 °C)</b>	<b>SW9045C</b>			Prep Date: <b>3/7/2023</b>		Analyst: <b>BAS</b>
pH	8.34			pH Units	1	3/7/2023
<b>Flash Point (Open-Cup)</b>	<b>SW1010(M)</b>			Prep Date: <b>3/2/2023</b>		Analyst: <b>RW</b>
Flashpoint	No flash up to 212		*	°F	1	3/2/2023
<b>Percent Moisture</b>	<b>D2974</b>			Prep Date: <b>3/3/2023</b>		Analyst: <b>RW</b>
Percent Moisture	22.0	0.2	*	wt%	1	3/6/2023
<b>Solids, Total</b>	<b>D2974</b>			Prep Date: <b>3/3/2023</b>		Analyst: <b>RW</b>
Total Solid	78.0	0.2	*	wt%	1	3/6/2023
<b>Paint Filter</b>	<b>SW9095A</b>			Prep Date: <b>3/2/2023</b>		Analyst: <b>RW</b>
Paint Filter	Pass			Pass/Fail	1	3/2/2023

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



**Sample Receipt Checklist**

Client Name HUFF & HUFF

Date and Time Received: 3/1/2023 4:20:00 PM

Work Order Number 23030052

Received by: JMH

Checklist completed by:

*J. Herron*  
Signature

3-1-2023

Date

Reviewed by:

*JMH*  
Initials

3/1/2023

Date

Matrix:

Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp ~~Blank~~ temperature in compliance? Yes  No  Temperature 2.6 °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

Comments:

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Client / Person

contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response:

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**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

February 24, 2023

Huff & Huff, Inc.  
915 Harger Road  
Oak Brook, IL 60523-1486

Telephone: (630) 684-9100  
Fax: (630) 684-9120

Analytical Report for STAT Work Order: 23020470 Revision 0

RE: 81.02207033.07, Landfill Profile Ashland & Madison, Chicago, IL.

Dear Huff & Huff, Inc.:

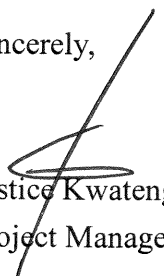
STAT Analysis received 1 sample for the referenced project on 2/14/2023 12:58:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Huff & Huff, Inc.

**Project:** 81.02207033.07, Landfill Profile Ashland & Madison,

**Work Order Sample Summary**

**Work Order:** 23020470 Revision 0

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
23020470-001A	TSM-26		2/14/2023 12:35:00 PM	2/14/2023

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**CLIENT:** Huff & Huff, Inc.

**Project:** 81.02207033.07, Landfill Profile Ashland & Madison, Chica

**Work Order:** 23020470 Revision 0

**CASE NARRATIVE**

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The following three parameters apply to sample TSM-26 (23020470-001):

Reactivity with Water: Sample effervesced with no temperature change

Odor: None

Physical Description: Black and brown soil with rocks

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 24, 2023

**ANALYTICAL RESULTS**

Date Printed: February 24, 2023

Client: Huff &amp; Huff, Inc.

Client Sample ID: TSM-26

Work Order: 23020470 Revision 0

Collection Date: 2/14/2023 12:35:00 PM

Project: 81.02207033.07, Landfill Profile Ashland &amp; Madis

Matrix: Soil

Lab ID: 23020470-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Volatile Organic Compounds by GC/MS</b> SW1311/8260B (SW5030B) Prep Date: 2/16/2023 Analyst: ERP						
Benzene	ND	0.050		mg/L	10	2/20/2023
2-Butanone	ND	0.20		mg/L	10	2/20/2023
Carbon tetrachloride	ND	0.050		mg/L	10	2/20/2023
Chlorobenzene	ND	0.050		mg/L	10	2/20/2023
Chloroform	ND	0.050		mg/L	10	2/20/2023
1,2-Dichloroethane	ND	0.050		mg/L	10	2/20/2023
1,1-Dichloroethene	ND	0.050		mg/L	10	2/20/2023
Tetrachloroethene	ND	0.050		mg/L	10	2/20/2023
Trichloroethene	ND	0.050		mg/L	10	2/20/2023
Vinyl chloride	ND	0.050		mg/L	10	2/20/2023
<b>TCLP Semivolatile Organic Compounds</b> SW1311/8270C (SW3510C) Prep Date: 2/21/2023 Analyst: TEM						
1,4-Dichlorobenzene	ND	0.010		mg/L	1	2/23/2023
2,4-Dinitrotoluene	ND	0.010		mg/L	1	2/23/2023
Hexachlorobenzene	ND	0.010		mg/L	1	2/23/2023
Hexachlorobutadiene	ND	0.010		mg/L	1	2/23/2023
Hexachloroethane	ND	0.010		mg/L	1	2/23/2023
Nitrobenzene	ND	0.010		mg/L	1	2/23/2023
2-Methylphenol	ND	0.010		mg/L	1	2/23/2023
3- & 4-Methylphenol	ND	0.010		mg/L	1	2/23/2023
Pentachlorophenol	ND	0.050		mg/L	1	2/23/2023
Pyridine	ND	0.010		mg/L	1	2/23/2023
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	2/23/2023
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	2/23/2023
<b>PCBs</b> SW8082A (SW3550B) Prep Date: 2/16/2023 Analyst: GVC						
Aroclor 1016	ND	0.087		mg/Kg-dry	1	2/16/2023
Aroclor 1221	ND	0.087		mg/Kg-dry	1	2/16/2023
Aroclor 1232	ND	0.087		mg/Kg-dry	1	2/16/2023
Aroclor 1242	ND	0.087		mg/Kg-dry	1	2/16/2023
Aroclor 1248	ND	0.087		mg/Kg-dry	1	2/16/2023
Aroclor 1254	ND	0.087		mg/Kg-dry	1	2/16/2023
Aroclor 1260	ND	0.087		mg/Kg-dry	1	2/16/2023
<b>TCLP Metals by ICP/MS</b> SW1311/6020A (SW3005A) Prep Date: 2/21/2023 Analyst: MDS						
Arsenic	ND	0.010		mg/L	5	2/21/2023
Barium	0.35	0.050		mg/L	5	2/21/2023
Cadmium	ND	0.0050		mg/L	5	2/21/2023
Chromium	ND	0.010		mg/L	5	2/21/2023
Copper	ND	0.10		mg/L	5	2/21/2023

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 24, 2023

**ANALYTICAL RESULTS**

Date Printed: February 24, 2023

Client: Huff &amp; Huff, Inc.

Client Sample ID: TSM-26

Work Order: 23020470 Revision 0

Collection Date: 2/14/2023 12:35:00 PM

Project: 81.02207033.07, Landfill Profile Ashland &amp; Madis

Matrix: Soil

Lab ID: 23020470-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>			Prep Date: <b>2/21/2023</b>		Analyst: <b>MDS</b>
Lead	ND	0.0050		mg/L	5	2/21/2023
Nickel	0.025	0.010		mg/L	5	2/21/2023
Selenium	ND	0.010		mg/L	5	2/21/2023
Silver	ND	0.010		mg/L	5	2/21/2023
Zinc	0.65	0.050		mg/L	5	2/21/2023
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>			Prep Date: <b>2/22/2023</b>		Analyst: <b>EPD</b>
Mercury	ND	0.00020		mg/L	1	2/22/2023
<b>Cyanide, Reactive</b>	<b>SW7.3.3.2</b>			Prep Date: <b>2/17/2023</b>		Analyst: <b>MD</b>
Reactive Cyanide	ND	1.0	*	mg/Kg	1	2/17/2023
<b>Sulfide, Reactive</b>	<b>SW7.3.4.2</b>			Prep Date: <b>2/16/2023</b>		Analyst: <b>MD</b>
Reactive Sulfide	ND	10	*	mg/Kg	1	2/16/2023
<b>Phenolics</b>	<b>SW9066 (SW9065)</b>			Prep Date: <b>2/17/2023</b>		Analyst: <b>MD</b>
Phenolics, Total Recoverable	ND	0.55		mg/Kg-dry	1	2/17/2023
<b>pH (25 °C)</b>	<b>SW9045C</b>			Prep Date: <b>2/21/2023</b>		Analyst: <b>RW</b>
pH	10.3			pH Units	1	2/21/2023
<b>Flash Point (Open-Cup)</b>	<b>SW1010(M)</b>			Prep Date: <b>2/15/2023</b>		Analyst: <b>RW</b>
Flashpoint	No flash up to 212		*	°F	1	2/15/2023
<b>Percent Moisture</b>	<b>D2974</b>			Prep Date: <b>2/17/2023</b>		Analyst: <b>RW</b>
Percent Moisture	9.4	0.2	*	wt%	1	2/17/2023
<b>Solids, Total</b>	<b>D2974</b>			Prep Date: <b>2/17/2023</b>		Analyst: <b>RW</b>
Total Solid	90.6	0.2	*	wt%	1	2/17/2023
<b>Paint Filter</b>	<b>SW9095A</b>			Prep Date: <b>2/15/2023</b>		Analyst: <b>RW</b>
Paint Filter	Pass			Pass/Fail	1	2/15/2023

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



Sample Receipt Checklist

Client Name HUFF & HUFF

Date and Time Received: 2/14/2023 12:58:00 PM

Work Order Number 23020470

Received by: JMH

Checklist completed by: *[Signature]* 2-14-2023  
Signature Date

Reviewed by: *[Initials]* 2/14/2023  
Initials Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature On Ice °C
- Water - VOA vials have zero headspace? No VOA vials submitted Yes  No  Checked by: \_\_\_\_\_
- Water - Samples pH checked? Yes  No  pH Adjusted? \_\_\_\_\_
- Water - Samples properly preserved? Yes  No

Any No response must be detailed in the comments section below.

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Craig Chawla

---

**From:** Esther Yim <Esther.Yim@gza.com>  
**Sent:** Wednesday, February 15, 2023 9:46 AM  
**To:** Craig Chawla  
**Cc:** Cory Wilson; Shane Cuplin; David Hunter  
**Subject:** Analysis Request (81.0220733.07, Landfill profile Ashland & Madison)

Hi Craig,

Please run the full Landfill Code R list for sample TSM-26.  
The sample was collected and submitted on 2/14/2023.

Project #: 81.0220733.07  
Project Name: Landfill Profile Ashland & Madison.

Thank you,

**Esther Yim**  
**Scientist I**

Huff & Huff, a Subsidiary of GZA | 915 Harger Road, Suite 330 | Oak Brook, IL 60523  
o: 630-684-4446 | fax: 630-928-0709 | c: 224-217-2208 | [esther.yim@gza.com](mailto:esther.yim@gza.com) | [www.gza.com](http://www.gza.com) | [www.huffnhuff.com](http://www.huffnhuff.com) | [GZA LinkedIn](#)

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**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

January 31, 2023

Huff & Huff, Inc.  
915 Harger Road  
Oak Brook, IL 60523-1486

Telephone: (630) 684-9100  
Fax: (630) 684-9120

Analytical Report for STAT Work Order: 23010540 Revision 0

RE: 81.0220733.07, Landfill Profile 31st & Keeler, Chicago, IL.

Dear Huff & Huff, Inc.:

STAT Analysis received 1 sample for the referenced project on 1/19/2023 10:56:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,

  
Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

---

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**Client:** Huff & Huff, Inc.

**Project:** 81.0220733.07, Landfill Profile 31st & Keeler, Chicag

**Work Order Sample Summary**

**Work Order:** 23010540 Revision 0

---

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
23010540-001A	LC-1		1/19/2023 9:45:00 AM	1/19/2023

---

**CLIENT:** Huff & Huff, Inc.  
**Project:** 81.0220733.07, Landfill Profile 31st & Keeler, Chicago, IL.  
**Work Order:** 23010540 Revision 0

---

**CASE NARRATIVE**

The following parameters apply to sample LC-1 (23010540-001):  
Reactivity with Water: None  
Reactivity with Base: None  
Reactivity with Acid: Sample effervesced with no temperature change  
Odor: None  
Physical Description: Black and brown soil with rocks

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 31, 2023

Date Printed: January 31, 2023

**ANALYTICAL RESULTS**

Client: Huff &amp; Huff, Inc.

Client Sample ID: LC-1

Work Order: 23010540 Revision 0

Collection Date: 1/19/2023 9:45:00 AM

Project: 81.0220733.07, Landfill Profile 31st &amp; Keeler, Chi

Matrix: Soil

Lab ID: 23010540-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Volatile Organic Compounds by GC/MS</b>	<b>SW1311/8260B (SW5030B)</b>		Prep Date: 1/19/2023		Analyst: ERP	
Benzene	ND	0.050		mg/L	10	1/20/2023
2-Butanone	ND	0.20		mg/L	10	1/20/2023
Carbon tetrachloride	ND	0.050		mg/L	10	1/20/2023
Chlorobenzene	ND	0.050		mg/L	10	1/20/2023
Chloroform	ND	0.050		mg/L	10	1/20/2023
1,2-Dichloroethane	ND	0.050		mg/L	10	1/20/2023
1,1-Dichloroethene	ND	0.050		mg/L	10	1/20/2023
Tetrachloroethene	ND	0.050		mg/L	10	1/20/2023
Trichloroethene	ND	0.050		mg/L	10	1/20/2023
Vinyl chloride	ND	0.050		mg/L	10	1/20/2023
<b>TCLP Semivolatile Organic Compounds</b>	<b>SW1311/8270C (SW3510C)</b>		Prep Date: 1/26/2023		Analyst: DM	
1,4-Dichlorobenzene	ND	0.010		mg/L	1	1/27/2023
2,4-Dinitrotoluene	ND	0.010		mg/L	1	1/27/2023
Hexachlorobenzene	ND	0.010		mg/L	1	1/27/2023
Hexachlorobutadiene	ND	0.010		mg/L	1	1/27/2023
Hexachloroethane	ND	0.010		mg/L	1	1/27/2023
Nitrobenzene	ND	0.010		mg/L	1	1/27/2023
2-Methylphenol	ND	0.010		mg/L	1	1/27/2023
3- & 4-Methylphenol	ND	0.010		mg/L	1	1/27/2023
Pentachlorophenol	ND	0.050		mg/L	1	1/27/2023
Pyridine	ND	0.010		mg/L	1	1/27/2023
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	1/27/2023
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	1/27/2023
<b>PCBs</b>	<b>SW8082A (SW3550B)</b>		Prep Date: 1/25/2023		Analyst: LV	
Aroclor 1016	ND	0.097		mg/Kg-dry	1	1/25/2023
Aroclor 1221	ND	0.097		mg/Kg-dry	1	1/25/2023
Aroclor 1232	ND	0.097		mg/Kg-dry	1	1/25/2023
Aroclor 1242	ND	0.097		mg/Kg-dry	1	1/25/2023
Aroclor 1248	ND	0.097		mg/Kg-dry	1	1/25/2023
Aroclor 1254	ND	0.097		mg/Kg-dry	1	1/25/2023
Aroclor 1260	ND	0.097		mg/Kg-dry	1	1/25/2023
<b>TCLP Pesticides</b>	<b>SW1311/8081B (SW3510C)</b>		Prep Date: 1/26/2023		Analyst: GVC	
Chlordane	ND	0.0050		mg/L	1	1/26/2023
Endrin	ND	0.00050		mg/L	1	1/26/2023
gamma-BHC	ND	0.0025		mg/L	1	1/26/2023
Heptachlor	ND	0.00025		mg/L	1	1/26/2023
Heptachlor epoxide	ND	0.00025		mg/L	1	1/26/2023

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 31, 2023

**ANALYTICAL RESULTS**

Date Printed: January 31, 2023

Client: Huff &amp; Huff, Inc.

Client Sample ID: LC-1

Work Order: 23010540 Revision 0

Collection Date: 1/19/2023 9:45:00 AM

Project: 81.0220733.07, Landfill Profile 31st &amp; Keeler, Chi

Matrix: Soil

Lab ID: 23010540-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Pesticides</b>	<b>SW1311/8081B (SW3510C)</b>			Prep Date: 1/26/2023		Analyst: <b>GVC</b>
Methoxychlor	ND	0.00025		mg/L	1	1/26/2023
Toxaphene	ND	0.0050		mg/L	1	1/26/2023
<b>Herbicides, TCLP Leached</b>	<b>SW1311/8321B (SW3510C)</b>			Prep Date: 1/26/2023		Analyst: <b>MEP</b>
2,4,5-TP (Silvex)	ND	0.0010		mg/L	1	1/27/2023
2,4-D	ND	0.0020		mg/L	1	1/27/2023
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>			Prep Date: 1/27/2023		Analyst: <b>JFR</b>
Arsenic	ND	0.010		mg/L	5	1/27/2023
Barium	0.45	0.050		mg/L	5	1/27/2023
Cadmium	ND	0.0050		mg/L	5	1/27/2023
Chromium	ND	0.010		mg/L	5	1/27/2023
Copper	ND	0.10		mg/L	5	1/27/2023
Lead	0.0065	0.0050		mg/L	5	1/27/2023
Nickel	0.016	0.010		mg/L	5	1/27/2023
Selenium	ND	0.010		mg/L	5	1/27/2023
Silver	ND	0.010		mg/L	5	1/27/2023
Zinc	ND	0.050		mg/L	5	1/27/2023
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>			Prep Date: 1/27/2023		Analyst: <b>EPD</b>
Mercury	ND	0.00020		mg/L	1	1/27/2023
<b>Cyanide, Reactive</b>	<b>SW7.3.3.2</b>			Prep Date: 1/19/2023		Analyst: <b>MD</b>
Reactive Cyanide	ND	1.0	*	mg/Kg	1	1/19/2023
<b>Sulfide, Reactive</b>	<b>SW7.3.4.2</b>			Prep Date: 1/20/2023		Analyst: <b>MD</b>
Reactive Sulfide	ND	10	*	mg/Kg	1	1/20/2023
<b>Phenolics</b>	<b>SW9066 (SW9065)</b>			Prep Date: 1/19/2023		Analyst: <b>MD</b>
Phenolics, Total Recoverable	ND	0.62		mg/Kg-dry	1	1/20/2023
<b>pH (25 °C)</b>	<b>SW9045C</b>			Prep Date: 1/20/2023		Analyst: <b>BAS</b>
pH	9.41			pH Units	1	1/20/2023
<b>Flash Point (Open-Cup)</b>	<b>SW1010(M)</b>			Prep Date: 1/20/2023		Analyst: <b>RW</b>
Flashpoint	No flash up to 212		*	°F	1	1/20/2023
<b>Percent Moisture</b>	<b>D2974</b>			Prep Date: 1/20/2023		Analyst: <b>BAS</b>
Percent Moisture	19.7	0.2	*	wt%	1	1/23/2023
<b>Solids, Total</b>	<b>D2974</b>			Prep Date: 1/20/2023		Analyst: <b>BAS</b>
Total Solid	80.3	0.2	*	wt%	1	1/23/2023
<b>Paint Filter</b>	<b>SW9095A</b>			Prep Date: 1/20/2023		Analyst: <b>RW</b>

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 31, 2023

**ANALYTICAL RESULTS**

Date Printed: January 31, 2023

Client: Huff &amp; Huff, Inc.

Client Sample ID: LC-1

Work Order: 23010540 Revision 0

Collection Date: 1/19/2023 9:45:00 AM

Project: 81.0220733.07, Landfill Profile 31st &amp; Keeler, Chi

Matrix: Soil

Lab ID: 23010540-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Paint Filter</b>	<b>SW9095A</b>				Prep Date: <b>1/20/2023</b>	Analyst: <b>RW</b>
Paint Filter	Pass			Pass/Fail	1	1/20/2023

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



**Sample Receipt Checklist**

Client Name HUFF & HUFF

Date and Time Received: 1/19/2023 10:56:00 AM

Work Order Number 23010540

Received by: MM

Checklist completed by: MM 1/19/2023  
Signature Date

Reviewed by: MM 1/19/2023  
Initials Date

Matrix: Carrier name: Client Delivered

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature On Ice °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

-----

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

March 24, 2022

Huff & Huff, Inc.  
915 Harger Road  
Oak Brook, IL 60523-1486

Telephone: (630) 684-9100  
Fax: (630) 684-9120

Analytical Report for STAT Work Order: 22030483 Revision 0

RE: 932365, 81.0220359.21, CDOT WPA Streets, Central Park Ave

Dear Huff & Huff, Inc.:

STAT Analysis received 1 sample for the referenced project on 3/15/2022 1:19:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Huff & Huff, Inc.

**Project:** 932365, 81.0220359.21, CDOT WPA Streets, Central

**Work Order Sample Summary**

**Work Order:** 22030483 Revision 0

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
22030483-001A	Comp-1		3/15/2022 11:00:00 AM	3/15/2022

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**CLIENT:** Huff & Huff, Inc.

**Project:** 932365, 81.0220359.21, CDOT WPA Streets, Central Park A

**Work Order:** 22030483 Revision 0

**CASE NARRATIVE**

---

The following parameters apply to sample Comp-1 (22030483-001):

Reactivity with Water: Sample effervesced with no temperature change

Reactivity with Base: Sample effervesced with no temperature change

Reactivity with Acid: Sample effervesced with no temperature change

Odor: None

Physical Description: Black and brown soil with rocks and grass

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: March 24, 2022

**ANALYTICAL RESULTS**

Date Printed: March 24, 2022

Client: Huff &amp; Huff, Inc.

Client Sample ID: Comp-1

Work Order: 22030483 Revision 0

Collection Date: 3/15/2022 11:00:00 AM

Project: 932365, 81.0220359.21, CDOT WPA Streets, Cent

Matrix: Soil

Lab ID: 22030483-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Volatile Organic Compounds by GC/MS</b>	<b>SW1311/8260B (SW5030B)</b>		Prep Date: <b>3/20/2022</b>		Analyst: <b>KWV</b>	
Benzene	ND	0.050		mg/L	10	3/21/2022
2-Butanone	ND	0.20		mg/L	10	3/21/2022
Carbon tetrachloride	ND	0.050		mg/L	10	3/21/2022
Chlorobenzene	ND	0.050		mg/L	10	3/21/2022
Chloroform	ND	0.050		mg/L	10	3/21/2022
1,2-Dichloroethane	ND	0.050		mg/L	10	3/21/2022
1,1-Dichloroethene	ND	0.050		mg/L	10	3/21/2022
Tetrachloroethene	ND	0.050		mg/L	10	3/21/2022
Trichloroethene	ND	0.050		mg/L	10	3/21/2022
Vinyl chloride	ND	0.050		mg/L	10	3/21/2022
<b>TCLP Semivolatile Organic Compounds</b>	<b>SW1311/8270C (SW3510C)</b>		Prep Date: <b>3/23/2022</b>		Analyst: <b>TEM</b>	
1,4-Dichlorobenzene	ND	0.010		mg/L	1	3/23/2022
2,4-Dinitrotoluene	ND	0.010		mg/L	1	3/23/2022
Hexachlorobenzene	ND	0.010		mg/L	1	3/23/2022
Hexachlorobutadiene	ND	0.010		mg/L	1	3/23/2022
Hexachloroethane	ND	0.010		mg/L	1	3/23/2022
Nitrobenzene	ND	0.010		mg/L	1	3/23/2022
2-Methylphenol	ND	0.010		mg/L	1	3/23/2022
3- & 4-Methylphenol	ND	0.010		mg/L	1	3/23/2022
Pentachlorophenol	ND	0.050		mg/L	1	3/23/2022
Pyridine	ND	0.010		mg/L	1	3/23/2022
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	3/23/2022
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	3/23/2022
<b>PCBs</b>	<b>SW8082A (SW3550B)</b>		Prep Date: <b>3/21/2022</b>		Analyst: <b>NFW</b>	
Aroclor 1016	ND	0.098		mg/Kg-dry	1	3/21/2022
Aroclor 1221	ND	0.098		mg/Kg-dry	1	3/21/2022
Aroclor 1232	ND	0.098		mg/Kg-dry	1	3/21/2022
Aroclor 1242	ND	0.098		mg/Kg-dry	1	3/21/2022
Aroclor 1248	ND	0.098		mg/Kg-dry	1	3/21/2022
Aroclor 1254	ND	0.098		mg/Kg-dry	1	3/21/2022
Aroclor 1260	ND	0.098		mg/Kg-dry	1	3/21/2022
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>3/23/2022</b>		Analyst: <b>JG</b>	
Arsenic	ND	0.010		mg/L	5	3/23/2022
Barium	0.62	0.050		mg/L	5	3/23/2022
Cadmium	ND	0.0050		mg/L	5	3/23/2022
Chromium	ND	0.010		mg/L	5	3/23/2022
Copper	ND	0.10		mg/L	5	3/23/2022

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: March 24, 2022

Date Printed: March 24, 2022

**ANALYTICAL RESULTS**

Client: Huff &amp; Huff, Inc.

Client Sample ID: Comp-1

Work Order: 22030483 Revision 0

Collection Date: 3/15/2022 11:00:00 AM

Project: 932365, 81.0220359.21, CDOT WPA Streets, Cent

Matrix: Soil

Lab ID: 22030483-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>			Prep Date: <b>3/23/2022</b>		Analyst: <b>JG</b>
Lead	0.060	0.0050		mg/L	5	3/23/2022
Nickel	0.016	0.010		mg/L	5	3/23/2022
Selenium	ND	0.010		mg/L	5	3/23/2022
Silver	ND	0.010		mg/L	5	3/23/2022
Zinc	0.11	0.050		mg/L	5	3/23/2022
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>			Prep Date: <b>3/23/2022</b>		Analyst: <b>LB</b>
Mercury	ND	0.00020		mg/L	1	3/23/2022
<b>Cyanide, Reactive</b>	<b>SW7.3.3.2</b>			Prep Date: <b>3/18/2022</b>		Analyst: <b>MD</b>
Reactive Cyanide	ND	1.0	*	mg/Kg	1	3/18/2022
<b>Sulfide, Reactive</b>	<b>SW7.3.4.2</b>			Prep Date: <b>3/22/2022</b>		Analyst: <b>MD</b>
Reactive Sulfide	ND	10	*	mg/Kg	1	3/22/2022
<b>Phenolics</b>	<b>SW9066 (SW9065)</b>			Prep Date: <b>3/21/2022</b>		Analyst: <b>MD</b>
Phenolics, Total Recoverable	ND	0.61		mg/Kg-dry	1	3/21/2022
<b>pH (25 °C)</b>	<b>SW9045C</b>			Prep Date: <b>3/22/2022</b>		Analyst: <b>BAS</b>
pH	7.88			pH Units	1	3/22/2022
<b>Flash Point (Open-Cup)</b>	<b>SW1010(M)</b>			Prep Date: <b>3/21/2022</b>		Analyst: <b>RW</b>
Flashpoint	No flash up to 212		*	°F	1	3/21/2022
<b>Percent Moisture</b>	<b>D2974</b>			Prep Date: <b>3/18/2022</b>		Analyst: <b>HYM</b>
Percent Moisture	18.2	0.2	*	wt%	1	3/21/2022
<b>Solids, Total</b>	<b>D2974</b>			Prep Date:		Analyst: <b>HYM</b>
Total Solid	81.8	0.2	*	wt%	1	3/18/2022
<b>Paint Filter</b>	<b>SW9095A</b>			Prep Date: <b>3/17/2022</b>		Analyst: <b>RW</b>
Paint Filter	Pass			Pass/Fail	1	3/17/2022

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



**Sample Receipt Checklist**

Client Name HUFF & HUFF

Date and Time Received: 3/15/2022 1:19:00 PM

Work Order Number 22030483

Received by: JMH

Checklist completed by: Ma Mb 3/15/22  
Signature Date

Reviewed by: CH 3/16/22  
Initials Date

Matrix: Carrier name: Client Delivered

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature On Ice °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

February 02, 2022

Huff & Huff, Inc.  
915 Harger Road  
Oak Brook, IL 60523-1486

Telephone: (630) 684-9100  
Fax: (630) 684-9120

Analytical Report for STAT Work Order: 22010476 Revision 0

RE: 81.0220359.21, CDOT WPA Streets, Nashville - Cortland to Armitage

Dear Huff & Huff, Inc.:

STAT Analysis received 1 sample for the referenced project on 1/21/2022 2:00:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Huff & Huff, Inc.

**Project:** 81.0220359.21, CDOT WPA Streets, Nashville - Cortla **Work Order Sample Summary**

**Work Order:** 22010476 Revision 0

---

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
22010476-001A	Comp-3		1/20/2022 10:55:00 AM	1/21/2022

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---

**CLIENT:** Huff & Huff, Inc.

**Project:** 81.0220359.21, CDOT WPA Streets, Nashville - Cortland to

**Work Order:** 22010476 Revision 0

**CASE NARRATIVE**

---

The following parameters apply to sample Comp-3 (22010476-001):

Reactivity with Water: None

Odor: None

Physical Description: Black and brown soil with rocks

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 02, 2022

**ANALYTICAL RESULTS**

Date Printed: February 02, 2022

Client: Huff &amp; Huff, Inc.

Client Sample ID: Comp-3

Work Order: 22010476 Revision 0

Collection Date: 1/20/2022 10:55:00 AM

Project: 81.0220359.21, CDOT WPA Streets, Nashville - C

Matrix: Soil

Lab ID: 22010476-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Volatile Organic Compounds by GC/MS</b>	<b>SW1311/8260B (SW5030B)</b>		Prep Date: 1/24/2022		Analyst: KWV	
Benzene	ND	0.0050		mg/L	1	1/26/2022
2-Butanone	ND	0.020		mg/L	1	1/26/2022
Carbon tetrachloride	ND	0.0050		mg/L	1	1/26/2022
Chlorobenzene	ND	0.0050		mg/L	1	1/26/2022
Chloroform	ND	0.0050		mg/L	1	1/26/2022
1,2-Dichloroethane	ND	0.0050		mg/L	1	1/26/2022
1,1-Dichloroethene	ND	0.0050		mg/L	1	1/26/2022
Tetrachloroethene	ND	0.0050		mg/L	1	1/26/2022
Trichloroethene	ND	0.0050		mg/L	1	1/26/2022
Vinyl chloride	ND	0.0050		mg/L	1	1/26/2022
<b>TCLP Semivolatile Organic Compounds</b>	<b>SW1311/8270C (SW3510C)</b>		Prep Date: 1/26/2022		Analyst: DM	
1,4-Dichlorobenzene	ND	0.0050		mg/L	1	1/27/2022
2,4-Dinitrotoluene	ND	0.0050		mg/L	1	1/27/2022
Hexachlorobenzene	ND	0.0050		mg/L	1	1/27/2022
Hexachlorobutadiene	ND	0.0050		mg/L	1	1/27/2022
Hexachloroethane	ND	0.0050		mg/L	1	1/27/2022
Nitrobenzene	ND	0.0050		mg/L	1	1/27/2022
2-methylphenol	ND	0.0050		mg/L	1	1/27/2022
3- & 4-Methylphenol	ND	0.0050		mg/L	1	1/27/2022
Pentachlorophenol	ND	0.025		mg/L	1	1/27/2022
Pyridine	ND	0.0050		mg/L	1	1/27/2022
2,4,5-Trichlorophenol	ND	0.0050		mg/L	1	1/27/2022
2,4,6-Trichlorophenol	ND	0.0050		mg/L	1	1/27/2022
<b>PCBs</b>	<b>SW8082A (SW3550B)</b>		Prep Date: 1/21/2022		Analyst: NFW	
Aroclor 1016	ND	0.095		mg/Kg-dry	1	1/24/2022
Aroclor 1221	ND	0.095		mg/Kg-dry	1	1/24/2022
Aroclor 1232	ND	0.095		mg/Kg-dry	1	1/24/2022
Aroclor 1242	ND	0.095		mg/Kg-dry	1	1/24/2022
Aroclor 1248	ND	0.095		mg/Kg-dry	1	1/24/2022
Aroclor 1254	ND	0.095		mg/Kg-dry	1	1/24/2022
Aroclor 1260	ND	0.095		mg/Kg-dry	1	1/24/2022
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: 1/26/2022		Analyst: JG	
Arsenic	ND	0.010		mg/L	5	1/26/2022
Barium	0.66	0.050		mg/L	5	1/26/2022
Cadmium	ND	0.0050		mg/L	5	1/26/2022
Chromium	ND	0.010		mg/L	5	1/26/2022
Copper	ND	0.10		mg/L	5	1/26/2022

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 02, 2022

**ANALYTICAL RESULTS**

Date Printed: February 02, 2022

Client: Huff &amp; Huff, Inc.

Client Sample ID: Comp-3

Work Order: 22010476 Revision 0

Collection Date: 1/20/2022 10:55:00 AM

Project: 81.0220359.21, CDOT WPA Streets, Nashville - C

Matrix: Soil

Lab ID: 22010476-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>			Prep Date: 1/26/2022		Analyst: JG
Lead	ND	0.0050		mg/L	5	1/26/2022
Nickel	0.012	0.010		mg/L	5	1/26/2022
Selenium	ND	0.010		mg/L	5	1/26/2022
Silver	ND	0.010		mg/L	5	1/26/2022
Zinc	ND	0.050		mg/L	5	1/26/2022
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>			Prep Date: 1/26/2022		Analyst: LB
Mercury	ND	0.00020		mg/L	1	1/26/2022
<b>Cyanide, Reactive</b>	<b>SW7.3.3.2</b>			Prep Date: 1/25/2022		Analyst: MD
Reactive Cyanide	ND	1.0	*	mg/Kg	1	1/25/2022
<b>Sulfide, Reactive</b>	<b>SW7.3.4.2</b>			Prep Date: 1/26/2022		Analyst: MD
Reactive Sulfide	ND	10	*	mg/Kg	1	1/26/2022
<b>Phenolics</b>	<b>SW9066 (SW9065)</b>			Prep Date: 1/24/2022		Analyst: MD
Phenolics, Total Recoverable	ND	0.60		mg/Kg-dry	1	1/27/2022
<b>pH (25 °C)</b>	<b>SW9045C</b>			Prep Date: 1/25/2022		Analyst: EAA
pH	8.97			pH Units	1	1/25/2022
<b>Flash Point (Open-Cup)</b>	<b>SW1010(M)</b>			Prep Date: 2/2/2022		Analyst: RW
Flashpoint	No flash up to 212		*	°F	1	2/2/2022
<b>Percent Moisture</b>	<b>D2974</b>			Prep Date: 1/26/2022		Analyst: HYM
Percent Moisture	16.5	0.2	*	wt%	1	1/27/2022
<b>Solids, Total</b>	<b>D2974</b>			Prep Date: 1/26/2022		Analyst: HYM
Total Solid	83.5	0.2	*	wt%	1	1/27/2022
<b>Paint Filter</b>	<b>SW9095A</b>			Prep Date: 1/24/2022		Analyst: RW
Paint Filter	Pass			Pass/Fail	1	1/24/2022

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



Sample Receipt Checklist

Client Name HUFF & HUFF

Date and Time Received: 1/21/2022 2:00:00 PM

Work Order Number 22010476

Received by: JMH

Checklist completed by: [Signature] 1-21-22  
Signature Date

Reviewed by: CB 1/24/22  
Initials Date

Matrix: Carrier name: STAT Analysis

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature 1.4 °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

-----

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Craig Chawla

---

**From:** Virginia Larimore <Virginia.Larimore@gza.com>  
**Sent:** Friday, January 21, 2022 5:52 PM  
**To:** Craig Chawla  
**Subject:** RE: CDOT Sample Pickup

Hi Craig –

I just saw that one of the chains wasn't fully filled out. There number at the top of the chain is 932359 and "Comp-3" is the only sample. The date and time are 1/20/22 and 1055.

Best,  
Ginny

**Virginia Larimore**  
**Engineer I**

Huff & Huff, a Subsidiary of GZA | 915 Harger Road, Suite 330 | Oak Brook, IL 60523

o: 630.684.4417 | c: 267.315.6447 | [virginia.larimore@gza.com](mailto:virginia.larimore@gza.com) | [www.gza.com](http://www.gza.com) | [www.huffnhuff.com](http://www.huffnhuff.com)

*\* Please note: Our office is currently working remotely. I can be reached at 267.315.6447.*

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

February 02, 2022

Huff & Huff, Inc.  
915 Harger Road  
Oak Brook, IL 60523-1486

Telephone: (630) 684-9100  
Fax: (630) 684-9120

Analytical Report for STAT Work Order: 22010520 Revision 0

RE: 81.0220359.21, CDOT WPA Streets, 94th - East End to Cregier

Dear Huff & Huff, Inc.:

STAT Analysis received 1 sample for the referenced project on 1/24/2022 4:30:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,

  
Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Huff & Huff, Inc.

**Project:** 81.0220359.21, CDOT WPA Streets, 94th - East End t

**Work Order Sample Summary**

**Work Order:** 22010520 Revision 0

---

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
22010520-001A	Comp-6		1/21/2022 11:30:00 AM	1/24/2022

---

**CLIENT:** Huff & Huff, Inc.**Project:** 81.0220359.21, CDOT WPA Streets, 94th - East End to Creg**Work Order:** 22010520 Revision 0**CASE NARRATIVE**

---

The following parameters apply to sample Comp-6 (22010520-001):

Reactivity with Water: Sample effervesced with no temperature change

Odor: None

Physical Description: Black and brown soil with rocks

Sample Comp-6 (22010520-001) had recovery for SVOC surrogate 2-Chlorophenol-d4 outside of control limits (113.3% recovery, QC Limits 33-110%). Recovery of all other surrogates were within control limits.

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 02, 2022

**ANALYTICAL RESULTS**

Date Printed: February 02, 2022

Client: Huff &amp; Huff, Inc.

Client Sample ID: Comp-6

Work Order: 22010520 Revision 0

Collection Date: 1/21/2022 11:30:00 AM

Project: 81.0220359.21, CDOT WPA Streets, 94th - East En

Matrix: Soil

Lab ID: 22010520-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Volatile Organic Compounds by GC/MS</b>	<b>SW1311/8260B (SW5030B)</b>		Prep Date: 1/27/2022		Analyst: KWV	
Benzene	ND	0.050		mg/L	10	1/28/2022
2-Butanone	ND	0.20		mg/L	10	1/28/2022
Carbon tetrachloride	ND	0.050		mg/L	10	1/28/2022
Chlorobenzene	ND	0.050		mg/L	10	1/28/2022
Chloroform	ND	0.050		mg/L	10	1/28/2022
1,2-Dichloroethane	ND	0.050		mg/L	10	1/28/2022
1,1-Dichloroethene	ND	0.050		mg/L	10	1/28/2022
Tetrachloroethene	ND	0.050		mg/L	10	1/28/2022
Trichloroethene	ND	0.050		mg/L	10	1/28/2022
Vinyl chloride	ND	0.050		mg/L	10	1/28/2022
<b>TCLP Semivolatile Organic Compounds</b>	<b>SW1311/8270C (SW3510C)</b>		Prep Date: 1/27/2022		Analyst: DM	
1,4-Dichlorobenzene	ND	0.010		mg/L	1	1/27/2022
2,4-Dinitrotoluene	ND	0.010		mg/L	1	1/27/2022
Hexachlorobenzene	ND	0.010		mg/L	1	1/27/2022
Hexachlorobutadiene	ND	0.010		mg/L	1	1/27/2022
Hexachloroethane	ND	0.010		mg/L	1	1/27/2022
Nitrobenzene	ND	0.010		mg/L	1	1/27/2022
2-methylphenol	ND	0.010		mg/L	1	1/27/2022
3- & 4-Methylphenol	ND	0.010		mg/L	1	1/27/2022
Pentachlorophenol	ND	0.050		mg/L	1	1/27/2022
Pyridine	ND	0.010		mg/L	1	1/27/2022
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	1/27/2022
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	1/27/2022
<b>PCBs</b>	<b>SW8082A (SW3550B)</b>		Prep Date: 1/25/2022		Analyst: NFW	
Aroclor 1016	ND	0.092		mg/Kg-dry	1	1/25/2022
Aroclor 1221	ND	0.092		mg/Kg-dry	1	1/25/2022
Aroclor 1232	ND	0.092		mg/Kg-dry	1	1/25/2022
Aroclor 1242	ND	0.092		mg/Kg-dry	1	1/25/2022
Aroclor 1248	ND	0.092		mg/Kg-dry	1	1/25/2022
Aroclor 1254	ND	0.092		mg/Kg-dry	1	1/25/2022
Aroclor 1260	ND	0.092		mg/Kg-dry	1	1/25/2022
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: 1/27/2022		Analyst: JG	
Arsenic	ND	0.010		mg/L	5	1/27/2022
Barium	0.54	0.050		mg/L	5	1/27/2022
Cadmium	ND	0.0050		mg/L	5	1/27/2022
Chromium	ND	0.010		mg/L	5	1/27/2022
Copper	ND	0.10		mg/L	5	1/27/2022

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: February 02, 2022

**ANALYTICAL RESULTS**

Date Printed: February 02, 2022

Client: Huff &amp; Huff, Inc.

Client Sample ID: Comp-6

Work Order: 22010520 Revision 0

Collection Date: 1/21/2022 11:30:00 AM

Project: 81.0220359.21, CDOT WPA Streets, 94th - East En

Matrix: Soil

Lab ID: 22010520-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: 1/27/2022		Analyst: JG	
Lead	0.0051	0.0050		mg/L	5	1/27/2022
Nickel	ND	0.010		mg/L	5	1/27/2022
Selenium	ND	0.010		mg/L	5	1/27/2022
Silver	ND	0.010		mg/L	5	1/27/2022
Zinc	ND	0.050		mg/L	5	1/27/2022
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: 1/27/2022		Analyst: LB	
Mercury	ND	0.00020		mg/L	1	1/27/2022
<b>Cyanide, Reactive</b>	<b>SW7.3.3.2</b>		Prep Date: 1/25/2022		Analyst: MD	
Reactive Cyanide	ND	1.0	*	mg/Kg	1	1/25/2022
<b>Sulfide, Reactive</b>	<b>SW7.3.4.2</b>		Prep Date: 1/26/2022		Analyst: MD	
Reactive Sulfide	ND	10	*	mg/Kg	1	1/26/2022
<b>Phenolics</b>	<b>SW9066 (SW9065)</b>		Prep Date: 1/27/2022		Analyst: MD	
Phenolics, Total Recoverable	ND	0.58		mg/Kg-dry	1	1/27/2022
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 1/26/2022		Analyst: EAA	
pH	8.91			pH Units	1	1/26/2022
<b>Flash Point (Open-Cup)</b>	<b>SW1010(M)</b>		Prep Date: 1/25/2022		Analyst: RW	
Flashpoint	No flash up to 212		*	°F	1	1/25/2022
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 1/28/2022		Analyst: ZPT	
Percent Moisture	13.2	0.2	*	wt%	1	1/31/2022
<b>Solids, Total</b>	<b>D2974</b>		Prep Date: 1/28/2022		Analyst: ZPT	
Total Solid	86.8	0.2	*	wt%	1	1/31/2022
<b>Paint Filter</b>	<b>SW9095A</b>		Prep Date: 1/25/2022		Analyst: RW	
Paint Filter	Pass			Pass/Fail	1	1/25/2022

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

Company: <u>GZA Huff &amp; Huff</u> Project Number: <u>81.0220359.2</u> Project Name: <u>CDOT WPA Streets</u> Project Location: <u>94th - East End to Cregier</u> Sampler(s): <u>Virginia Laimore</u> Report To: <u>Cory Wilson</u> Phone: _____ Fax: _____ e-mail: _____	Client Tracking No.: _____ Turn Around Time (Days): 1 2 3 4 5 7 10 Results Needed: _____ Additional Information: _____ Lab No.: <u>001</u>	Quote No.: _____ P.O. No.: _____	No. of Containers Preserv. Grab Comp. Matrix <u>1</u> <u>X</u> <u>S</u> <u>X</u>	Time Taken <u>11/21/22 1130</u>	Date Taken <u>11/21/22</u>	Date/Time: <u>11/24/22 1630</u> Date/Time: <u>1/24/23</u> Date/Time: _____ Date/Time: _____ Date/Time: _____ Date/Time: _____	Comments: <u>Code B landfill</u>	Laboratory Work Order No.: <u>22010520</u> Received on Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Temperature: <u>4.2</u> °C
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### Sample Receipt Checklist

Client Name HUFF & HUFF

Date and Time Received: 1/24/2022 4:30:00 PM

Work Order Number 22010520

Received by: NAP

Checklist completed by:

Signature 

Date 1-24-22

Reviewed by:

Initials 

Date 1/25/22

Matrix:

Carrier name: Client Delivered

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature 4.2 °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_

Date contacted: \_\_\_\_\_

Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

April 07, 2022

Huff & Huff, Inc.  
915 Harger Road  
Oak Brook, IL 60523-1486

Telephone: (630) 684-9100  
Fax: (630) 684-9120

Analytical Report for STAT Work Order: 22030927 Revision 0

RE: 81.0220359.21, CDOT WPA Streets - Corridor #9, Chicago, IL

Dear Huff & Huff, Inc.:

STAT Analysis received 1 sample for the referenced project on 3/31/2022 3:58:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Huff & Huff, Inc.  
**Project:** 81.0220359.21, CDOT WPA Streets - Corridor #9, Chi **Work Order Sample Summary**  
**Work Order:** 22030927 Revision 0

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
22030927-001A	Comp-9		3/31/2022	3/31/2022

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**CLIENT:** Huff & Huff, Inc.

**Project:** 81.0220359.21, CDOT WPA Streets - Corridor #9, Chicago,

**Work Order:** 22030927 Revision 0

**CASE NARRATIVE**

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The following parameters apply to sample Comp-9 (22030927-001):

Reactivity with Water: None

Reactivity with Base: None

Reactivity with Acid: Sample effervesced with no temperature change

Odor: None

Physical Description: Black, brown and gray soil with rocks

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 07, 2022

**ANALYTICAL RESULTS**

Date Printed: April 07, 2022

Client: Huff &amp; Huff, Inc.

Client Sample ID: Comp-9

Work Order: 22030927 Revision 0

Collection Date: 3/31/2022

Project: 81.0220359.21, CDOT WPA Streets - Corridor #9,

Matrix: Soil

Lab ID: 22030927-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Volatile Organic Compounds by GC/MS</b> SW1311/8260B (SW5030B) Prep Date: 3/31/2022 Analyst: KWV						
Benzene	ND	0.050		mg/L	10	4/4/2022
2-Butanone	ND	0.20		mg/L	10	4/4/2022
Carbon tetrachloride	ND	0.050		mg/L	10	4/4/2022
Chlorobenzene	ND	0.050		mg/L	10	4/4/2022
Chloroform	ND	0.050		mg/L	10	4/4/2022
1,2-Dichloroethane	ND	0.050		mg/L	10	4/4/2022
1,1-Dichloroethene	ND	0.050		mg/L	10	4/4/2022
Tetrachloroethene	ND	0.050		mg/L	10	4/4/2022
Trichloroethene	ND	0.050		mg/L	10	4/4/2022
Vinyl chloride	ND	0.050		mg/L	10	4/4/2022
<b>TCLP Semivolatile Organic Compounds</b> SW1311/8270C (SW3510C) Prep Date: 4/5/2022 Analyst: TEM						
1,4-Dichlorobenzene	ND	0.010		mg/L	1	4/7/2022
2,4-Dinitrotoluene	ND	0.010		mg/L	1	4/7/2022
Hexachlorobenzene	ND	0.010		mg/L	1	4/7/2022
Hexachlorobutadiene	ND	0.010		mg/L	1	4/7/2022
Hexachloroethane	ND	0.010		mg/L	1	4/7/2022
Nitrobenzene	ND	0.010		mg/L	1	4/7/2022
2-Methylphenol	ND	0.010		mg/L	1	4/7/2022
3- & 4-Methylphenol	ND	0.010		mg/L	1	4/7/2022
Pentachlorophenol	ND	0.050		mg/L	1	4/7/2022
Pyridine	ND	0.010		mg/L	1	4/7/2022
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	4/7/2022
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	4/7/2022
<b>PCBs</b> SW8082A (SW3550B) Prep Date: 4/5/2022 Analyst: NFW						
Aroclor 1016	ND	0.094		mg/Kg-dry	1	4/5/2022
Aroclor 1221	ND	0.094		mg/Kg-dry	1	4/5/2022
Aroclor 1232	ND	0.094		mg/Kg-dry	1	4/5/2022
Aroclor 1242	ND	0.094		mg/Kg-dry	1	4/5/2022
Aroclor 1248	ND	0.094		mg/Kg-dry	1	4/5/2022
Aroclor 1254	ND	0.094		mg/Kg-dry	1	4/5/2022
Aroclor 1260	ND	0.094		mg/Kg-dry	1	4/5/2022
<b>TCLP Metals by ICP/MS</b> SW1311/6020A (SW3005A) Prep Date: 4/5/2022 Analyst: JG						
Arsenic	ND	0.010		mg/L	5	4/5/2022
Barium	0.51	0.050		mg/L	5	4/5/2022
Cadmium	ND	0.0050		mg/L	5	4/5/2022
Chromium	ND	0.010		mg/L	5	4/5/2022
Copper	ND	0.10		mg/L	5	4/5/2022

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: April 07, 2022

Date Printed: April 07, 2022

**ANALYTICAL RESULTS**

Client: Huff &amp; Huff, Inc.

Client Sample ID: Comp-9

Work Order: 22030927 Revision 0

Collection Date: 3/31/2022

Project: 81.0220359.21, CDOT WPA Streets - Corridor #9,

Matrix: Soil

Lab ID: 22030927-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>			Prep Date: <b>4/5/2022</b>		Analyst: <b>JG</b>
Lead	ND	0.0050		mg/L	5	4/5/2022
Nickel	0.025	0.010		mg/L	5	4/5/2022
Selenium	ND	0.010		mg/L	5	4/5/2022
Silver	ND	0.010		mg/L	5	4/5/2022
Zinc	ND	0.050		mg/L	5	4/5/2022
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>			Prep Date: <b>4/5/2022</b>		Analyst: <b>LB</b>
Mercury	ND	0.00020		mg/L	1	4/5/2022
<b>Cyanide, Reactive</b>	<b>SW7.3.3.2</b>			Prep Date: <b>4/4/2022</b>		Analyst: <b>MD</b>
Reactive Cyanide	ND	1.0	*	mg/Kg	1	4/4/2022
<b>Sulfide, Reactive</b>	<b>SW7.3.4.2</b>			Prep Date: <b>4/6/2022</b>		Analyst: <b>MD</b>
Reactive Sulfide	ND	10	*	mg/Kg	1	4/6/2022
<b>Phenolics</b>	<b>SW9066 (SW9065)</b>			Prep Date: <b>4/2/2022</b>		Analyst: <b>MD</b>
Phenolics, Total Recoverable	ND	0.59		mg/Kg-dry	1	4/6/2022
<b>pH (25 °C)</b>	<b>SW9045C</b>			Prep Date: <b>4/1/2022</b>		Analyst: <b>BAS</b>
pH	8.38			pH Units	1	4/1/2022
<b>Flash Point (Open-Cup)</b>	<b>SW1010(M)</b>			Prep Date: <b>4/4/2022</b>		Analyst: <b>RW</b>
Flashpoint	No flash up to 212		*	°F	1	4/4/2022
<b>Percent Moisture</b>	<b>D2974</b>			Prep Date: <b>4/1/2022</b>		Analyst: <b>HYM</b>
Percent Moisture	15.0	0.2	*	wt%	1	4/4/2022
<b>Solids, Total</b>	<b>D2974</b>			Prep Date: <b>4/1/2022</b>		Analyst: <b>HYM</b>
Total Solid	85.0	0.2	*	wt%	1	4/4/2022
<b>Paint Filter</b>	<b>SW9095A</b>			Prep Date: <b>4/1/2022</b>		Analyst: <b>RW</b>
Paint Filter	Pass			Pass/Fail	1	4/1/2022

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



**Sample Receipt Checklist**

Client Name **HUFF & HUFF**

Date and Time Received: **3/31/2022 3:58:00 PM**

Work Order Number **22030927**

Received by: **JMH**

Checklist completed by: *[Signature]* **3/31/22**  
Signature Date

Reviewed by: *[Signature]* **4/1/22**  
Initials Date

Matrix: \_\_\_\_\_ Carrier name: Client Delivered

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature On Ice °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

-----

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

March 31, 2022

Huff & Huff, Inc.  
915 Harger Road  
Oak Brook, IL 60523-1486

Telephone: (630) 684-9100  
Fax: (630) 684-9120

Analytical Report for STAT Work Order: 22030726 Revision 0

RE: 81.0220359.21, CDOT WPA Streets - 13, 14, 15, Chicago, IL

Dear Huff & Huff, Inc.:

STAT Analysis received 1 sample for the referenced project on 3/23/2022 2:46:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Huff & Huff, Inc.

**Project:** 81.0220359.21, CDOT WPA Streets - 13, 14, 15, Chic

**Work Order Sample Summary**

**Work Order:** 22030726 Revision 0

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
22030726-001A	Comp-13/14/15		3/23/2022 1:00:00 PM	3/23/2022

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**CLIENT:** Huff & Huff, Inc.

**Project:** 81.0220359.21, CDOT WPA Streets - 13, 14, 15, Chicago, IL

**Work Order:** 22030726 Revision 0

**CASE NARRATIVE**

---

The following three parameters apply to sampleComp-13/14/15 (220307026-001):

Reactivity with Water: Sample effervesced with no temperature change

Odor: None

Physical Description: Black, brown and gray soil with rocks

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: March 31, 2022

Date Printed: March 31, 2022

**ANALYTICAL RESULTS**

Client: Huff &amp; Huff, Inc.

Client Sample ID: Comp-13/14/15

Work Order: 22030726 Revision 0

Collection Date: 3/23/2022 1:00:00 PM

Project: 81.0220359.21, CDOT WPA Streets - 13, 14, 15, C

Matrix: Soil

Lab ID: 22030726-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Volatile Organic Compounds by GC/MS</b>	<b>SW1311/8260B (SW5030B)</b>		Prep Date: <b>3/28/2022</b>		Analyst: <b>KWV</b>	
Benzene	ND	0.050		mg/L	10	3/29/2022
2-Butanone	ND	0.20		mg/L	10	3/29/2022
Carbon tetrachloride	ND	0.050		mg/L	10	3/29/2022
Chlorobenzene	ND	0.050		mg/L	10	3/29/2022
Chloroform	ND	0.050		mg/L	10	3/29/2022
1,2-Dichloroethane	ND	0.050		mg/L	10	3/29/2022
1,1-Dichloroethene	ND	0.050		mg/L	10	3/29/2022
Tetrachloroethene	ND	0.050		mg/L	10	3/29/2022
Trichloroethene	ND	0.050		mg/L	10	3/29/2022
Vinyl chloride	ND	0.050		mg/L	10	3/29/2022
<b>TCLP Semivolatile Organic Compounds</b>	<b>SW1311/8270C (SW3510C)</b>		Prep Date: <b>3/29/2022</b>		Analyst: <b>TEM</b>	
1,4-Dichlorobenzene	ND	0.010		mg/L	1	3/30/2022
2,4-Dinitrotoluene	ND	0.010		mg/L	1	3/30/2022
Hexachlorobenzene	ND	0.010		mg/L	1	3/30/2022
Hexachlorobutadiene	ND	0.010		mg/L	1	3/30/2022
Hexachloroethane	ND	0.010		mg/L	1	3/30/2022
Nitrobenzene	ND	0.010		mg/L	1	3/30/2022
2-Methylphenol	ND	0.010		mg/L	1	3/30/2022
3- & 4-Methylphenol	ND	0.010		mg/L	1	3/30/2022
Pentachlorophenol	ND	0.050		mg/L	1	3/30/2022
Pyridine	ND	0.010		mg/L	1	3/30/2022
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	3/30/2022
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	3/30/2022
<b>PCBs</b>	<b>SW8082A (SW3550B)</b>		Prep Date: <b>3/28/2022</b>		Analyst: <b>NFW</b>	
Aroclor 1016	ND	0.094		mg/Kg-dry	1	3/28/2022
Aroclor 1221	ND	0.094		mg/Kg-dry	1	3/28/2022
Aroclor 1232	ND	0.094		mg/Kg-dry	1	3/28/2022
Aroclor 1242	ND	0.094		mg/Kg-dry	1	3/28/2022
Aroclor 1248	ND	0.094		mg/Kg-dry	1	3/28/2022
Aroclor 1254	ND	0.094		mg/Kg-dry	1	3/28/2022
Aroclor 1260	ND	0.094		mg/Kg-dry	1	3/28/2022
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>3/29/2022</b>		Analyst: <b>JG</b>	
Arsenic	ND	0.010		mg/L	5	3/31/2022
Barium	0.92	0.050		mg/L	5	3/31/2022
Cadmium	ND	0.0050		mg/L	5	3/31/2022
Chromium	ND	0.010		mg/L	5	3/31/2022
Copper	ND	0.10		mg/L	5	3/31/2022

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: March 31, 2022

**ANALYTICAL RESULTS**

Date Printed: March 31, 2022

Client: Huff &amp; Huff, Inc.

Client Sample ID: Comp-13/14/15

Work Order: 22030726 Revision 0

Collection Date: 3/23/2022 1:00:00 PM

Project: 81.0220359.21, CDOT WPA Streets - 13, 14, 15, C

Matrix: Soil

Lab ID: 22030726-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>			Prep Date: <b>3/29/2022</b>		Analyst: <b>JG</b>
Lead	0.0075	0.0050		mg/L	5	3/31/2022
Nickel	0.021	0.010		mg/L	5	3/31/2022
Selenium	ND	0.010		mg/L	5	3/31/2022
Silver	ND	0.010		mg/L	5	3/31/2022
Zinc	ND	0.050		mg/L	5	3/31/2022
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>			Prep Date: <b>3/29/2022</b>		Analyst: <b>LB</b>
Mercury	ND	0.00020		mg/L	1	3/29/2022
<b>Cyanide, Reactive</b>	<b>SW7.3.3.2</b>			Prep Date: <b>3/24/2022</b>		Analyst: <b>MD</b>
Reactive Cyanide	ND	1.0	*	mg/Kg	1	3/24/2022
<b>Sulfide, Reactive</b>	<b>SW7.3.4.2</b>			Prep Date: <b>3/23/2022</b>		Analyst: <b>MD</b>
Reactive Sulfide	ND	10	*	mg/Kg	1	3/23/2022
<b>Phenolics</b>	<b>SW9066 (SW9065)</b>			Prep Date: <b>3/24/2022</b>		Analyst: <b>MD</b>
Phenolics, Total Recoverable	ND	0.59		mg/Kg-dry	1	3/24/2022
<b>pH (25 °C)</b>	<b>SW9045C</b>			Prep Date: <b>3/29/2022</b>		Analyst: <b>BAS</b>
pH	8.20			pH Units	1	3/29/2022
<b>Flash Point (Open-Cup)</b>	<b>SW1010(M)</b>			Prep Date: <b>3/28/2022</b>		Analyst: <b>RW</b>
Flashpoint	No flash up to 212		*	°F	1	3/28/2022
<b>Percent Moisture</b>	<b>D2974</b>			Prep Date: <b>3/28/2022</b>		Analyst: <b>HYM</b>
Percent Moisture	15.4	0.2	*	wt%	1	3/28/2022
<b>Solids, Total</b>	<b>D2974</b>			Prep Date: <b>3/28/2022</b>		Analyst: <b>HYM</b>
Total Solid	84.6	0.2	*	wt%	1	3/28/2022
<b>Paint Filter</b>	<b>SW9095A</b>			Prep Date: <b>3/24/2022</b>		Analyst: <b>RW</b>
Paint Filter	Pass			Pass/Fail	1	3/24/2022

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded





**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

January 14, 2022

Huff & Huff, Inc.  
915 Harger Road  
Oak Brook, IL 60523-1486

Telephone: (630) 684-9100  
Fax: (630) 684-9120

Analytical Report for STAT Work Order: 22010093 Revision 0

RE: 81-0220359-21, CDOT WPA Streets, Dauphin - 107th to Rhodes

Dear Huff & Huff, Inc.:

STAT Analysis received 1 sample for the referenced project on 1/5/2022 3:45:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Huff & Huff, Inc.

**Project:** 81-0220359-21, CDOT WPA Streets, Dauphin - 107th

**Work Order Sample Summary**

**Work Order:** 22010093 Revision 0

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
22010093-001A	Comp-22		1/5/2022 2:40:00 PM	1/5/2022

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**CLIENT:** Huff & Huff, Inc.**Project:** 81-0220359-21, CDOT WPA Streets, Dauphin - 107th to Rh**Work Order:** 22010093 Revision 0**CASE NARRATIVE**

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The following parameters apply to sample Comp-22 (22010093-001):

Reactivity with Water: Sample effervesced with no temperature change

Odor: None

Physical Description: Black and brown soil with rocks

Sample Comp-22 (22010093-001) had recovery of VOC surrogate 4-Bromofluorobenzene outside of control limits (118% recovery, QC Limits: 79-114%). Recovery of all other surrogates were within control limits.

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 14, 2022

Date Printed: January 14, 2022

**ANALYTICAL RESULTS**

Client: Huff &amp; Huff, Inc.

Client Sample ID: Comp-22

Work Order: 22010093 Revision 0

Collection Date: 1/5/2022 2:40:00 PM

Project: 81-0220359-21, CDOT WPA Streets, Dauphin - 10

Matrix: Soil

Lab ID: 22010093-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Volatile Organic Compounds by GC/MS</b>	<b>SW1311/8260B (SW5030B)</b>		Prep Date: 1/10/2022		Analyst: KWV	
Benzene	ND	0.050		mg/L	10	1/12/2022
2-Butanone	ND	0.20		mg/L	10	1/12/2022
Carbon tetrachloride	ND	0.050		mg/L	10	1/12/2022
Chlorobenzene	ND	0.050		mg/L	10	1/12/2022
Chloroform	ND	0.050		mg/L	10	1/12/2022
1,2-Dichloroethane	ND	0.050		mg/L	10	1/12/2022
1,1-Dichloroethene	ND	0.050		mg/L	10	1/12/2022
Tetrachloroethene	ND	0.050		mg/L	10	1/12/2022
Trichloroethene	ND	0.050		mg/L	10	1/12/2022
Vinyl chloride	ND	0.050		mg/L	10	1/12/2022
<b>TCLP Semivolatile Organic Compounds</b>	<b>SW1311/8270C (SW3510C)</b>		Prep Date: 1/12/2022		Analyst: DM	
1,4-Dichlorobenzene	ND	0.010		mg/L	1	1/12/2022
2,4-Dinitrotoluene	ND	0.010		mg/L	1	1/12/2022
Hexachlorobenzene	ND	0.010		mg/L	1	1/12/2022
Hexachlorobutadiene	ND	0.010		mg/L	1	1/12/2022
Hexachloroethane	ND	0.010		mg/L	1	1/12/2022
Nitrobenzene	ND	0.010		mg/L	1	1/12/2022
2-methylphenol	ND	0.010		mg/L	1	1/12/2022
3- & 4-Methylphenol	ND	0.010		mg/L	1	1/12/2022
Pentachlorophenol	ND	0.050		mg/L	1	1/12/2022
Pyridine	ND	0.010		mg/L	1	1/12/2022
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	1/12/2022
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	1/12/2022
<b>PCBs</b>	<b>SW8082A (SW3550B)</b>		Prep Date: 1/6/2022		Analyst: NFW	
Aroclor 1016	ND	0.095		mg/Kg-dry	1	1/7/2022
Aroclor 1221	ND	0.095		mg/Kg-dry	1	1/7/2022
Aroclor 1232	ND	0.095		mg/Kg-dry	1	1/7/2022
Aroclor 1242	ND	0.095		mg/Kg-dry	1	1/7/2022
Aroclor 1248	ND	0.095		mg/Kg-dry	1	1/7/2022
Aroclor 1254	ND	0.095		mg/Kg-dry	1	1/7/2022
Aroclor 1260	ND	0.095		mg/Kg-dry	1	1/7/2022
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: 1/12/2022		Analyst: JG	
Arsenic	ND	0.010		mg/L	5	1/13/2022
Barium	0.87	0.050		mg/L	5	1/13/2022
Cadmium	ND	0.0050		mg/L	5	1/13/2022
Chromium	ND	0.010		mg/L	5	1/13/2022
Copper	ND	0.10		mg/L	5	1/13/2022

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: January 14, 2022

Date Printed: January 14, 2022

**ANALYTICAL RESULTS**

Client: Huff &amp; Huff, Inc.

Client Sample ID: Comp-22

Work Order: 22010093 Revision 0

Collection Date: 1/5/2022 2:40:00 PM

Project: 81-0220359-21, CDOT WPA Streets, Dauphin - 10

Matrix: Soil

Lab ID: 22010093-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>			Prep Date: 1/12/2022		Analyst: JG
Lead	0.31	0.0050		mg/L	5	1/13/2022
Nickel	0.069	0.010		mg/L	5	1/13/2022
Selenium	ND	0.010		mg/L	5	1/13/2022
Silver	ND	0.010		mg/L	5	1/13/2022
Zinc	0.13	0.050		mg/L	5	1/13/2022
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>			Prep Date: 1/12/2022		Analyst: LB
Mercury	ND	0.00020		mg/L	1	1/12/2022
<b>Cyanide, Reactive</b>	<b>SW7.3.3.2</b>			Prep Date: 1/12/2022		Analyst: MD
Reactive Cyanide	ND	1.0	*	mg/Kg	1	1/12/2022
<b>Sulfide, Reactive</b>	<b>SW7.3.4.2</b>			Prep Date: 1/5/2022		Analyst: MD
Reactive Sulfide	ND	10	*	mg/Kg	1	1/5/2022
<b>Phenolics</b>	<b>SW9066 (SW9065)</b>			Prep Date: 1/6/2022		Analyst: MD
Phenolics, Total Recoverable	ND	0.60		mg/Kg-dry	1	1/7/2022
<b>pH (25 °C)</b>	<b>SW9045C</b>			Prep Date: 1/10/2022		Analyst: EAA
pH	8.86			pH Units	1	1/10/2022
<b>Flash Point (Open-Cup)</b>	<b>SW1010(M)</b>			Prep Date: 1/6/2022		Analyst: RW
Flashpoint	No flash up to 212		*	°F	1	1/6/2022
<b>Percent Moisture</b>	<b>D2974</b>			Prep Date: 1/12/2022		Analyst: ZPT
Percent Moisture	17.2	0.2	*	wt%	1	1/13/2022
<b>Solids, Total</b>	<b>D2974</b>			Prep Date: 1/12/2022		Analyst: ZPT
Total Solid	82.8	0.2	*	wt%	1	1/13/2022
<b>Paint Filter</b>	<b>SW9095A</b>			Prep Date: 1/6/2022		Analyst: RW
Paint Filter	Pass			Pass/Fail	1	1/6/2022

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



**Sample Receipt Checklist**

Client Name HUFF & HUFF

Date and Time Received: 1/5/2022 3:45:00 PM

Work Order Number 22010093

Received by: JMH

Checklist completed by: [Signature] 1/5/22  
Signature Date

Reviewed by: [Initials] 1/6/22  
Initials Date

Matrix: \_\_\_\_\_ Carrier name: Client Delivered

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature On Ice °C
- Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

-----

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

July 08, 2021

Huff & Huff, Inc.  
915 Harger Road  
Oak Brook, IL 60523-1486

Telephone: (630) 684-9100  
Fax: (630) 684-9120

Analytical Report for STAT Work Order: 21061101 Revision 0

RE: 81.0220359.21, Irving Park Bridge CDOT, Chicago

Dear Huff & Huff, Inc.:

STAT Analysis received 2 samples for the referenced project on 6/30/2021 3:10:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Huff & Huff, Inc.  
**Project:** 81.0220359.21, Irving Park Bridge CDOT, Chicago  
**Work Order:** 21061101 Revision 0

**Work Order Sample Summary**

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
21061101-001A	Irv-01		6/29/2021 3:08:00 PM	6/30/2021
21061101-001B	Irv-01		6/29/2021 3:08:00 PM	6/30/2021
21061101-002A	FP-01		6/29/2021 3:10:00 PM	6/30/2021
21061101-002B	FP-01		6/29/2021 3:10:00 PM	6/30/2021

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**CLIENT:** Huff & Huff, Inc.  
**Project:** 81.0220359.21, Irving Park Bridge CDOT, Chicago  
**Work Order:** 21061101 Revision 0

---

**CASE NARRATIVE**

Sample Irv-01 (21061101-001) had recovery for SVOC surrogate Nitrobenzene-d5 outside of control limits (115.6% recovery, QC Limits 35-114%). Recovery for all other surrogates were within control limits.

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: July 08, 2021

**ANALYTICAL RESULTS**

Date Printed: July 08, 2021

Client: Huff &amp; Huff, Inc.

Client Sample ID: Irv-01

Work Order: 21061101 Revision 0

Collection Date: 6/29/2021 3:08:00 PM

Project: 81.0220359.21, Irving Park Bridge CDOT, Chicago

Matrix: Soil

Lab ID: 21061101-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Volatile Organic Compounds by GC/MS</b>	<b>SW1311/8260B (SW5030B)</b>		Prep Date: 7/1/2021		Analyst: <b>CBG</b>	
Benzene	ND	0.050		mg/L	10	7/7/2021
2-Butanone	ND	0.20		mg/L	10	7/7/2021
Carbon tetrachloride	ND	0.050		mg/L	10	7/7/2021
Chlorobenzene	ND	0.050		mg/L	10	7/7/2021
Chloroform	ND	0.050		mg/L	10	7/7/2021
1,2-Dichloroethane	ND	0.050		mg/L	10	7/7/2021
1,1-Dichloroethene	ND	0.050		mg/L	10	7/7/2021
Tetrachloroethene	ND	0.050		mg/L	10	7/7/2021
Trichloroethene	ND	0.050		mg/L	10	7/7/2021
Vinyl chloride	ND	0.050		mg/L	10	7/7/2021
<b>TCLP Semivolatile Organic Compounds</b>	<b>SW1311/8270C (SW3510C)</b>		Prep Date: 7/2/2021		Analyst: <b>DM</b>	
1,4-Dichlorobenzene	ND	0.010		mg/L	1	7/6/2021
2,4-Dinitrotoluene	ND	0.010		mg/L	1	7/6/2021
Hexachlorobenzene	ND	0.010		mg/L	1	7/6/2021
Hexachlorobutadiene	ND	0.010		mg/L	1	7/6/2021
Hexachloroethane	ND	0.010		mg/L	1	7/6/2021
Nitrobenzene	ND	0.010		mg/L	1	7/6/2021
2-methylphenol	ND	0.010		mg/L	1	7/6/2021
3- & 4-Methylphenol	ND	0.010		mg/L	1	7/6/2021
Pentachlorophenol	ND	0.050		mg/L	1	7/6/2021
Pyridine	ND	0.010		mg/L	1	7/6/2021
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	7/6/2021
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	7/6/2021
<b>PCBs</b>	<b>SW8082A (SW3550B)</b>		Prep Date: 7/7/2021		Analyst: <b>GVC</b>	
Aroclor 1016	ND	0.096		mg/Kg-dry	1	7/7/2021
Aroclor 1221	ND	0.096		mg/Kg-dry	1	7/7/2021
Aroclor 1232	ND	0.096		mg/Kg-dry	1	7/7/2021
Aroclor 1242	ND	0.096		mg/Kg-dry	1	7/7/2021
Aroclor 1248	ND	0.096		mg/Kg-dry	1	7/7/2021
Aroclor 1254	ND	0.096		mg/Kg-dry	1	7/7/2021
Aroclor 1260	ND	0.096		mg/Kg-dry	1	7/7/2021
<b>TCLP Pesticides</b>	<b>SW1311/8081B (SW3510C)</b>		Prep Date: 7/2/2021		Analyst: <b>GVC</b>	
Chlordane	ND	0.0050		mg/L	1	7/3/2021
Endrin	ND	0.00050		mg/L	1	7/3/2021
gamma-BHC	ND	0.0025		mg/L	1	7/3/2021
Heptachlor	ND	0.00025		mg/L	1	7/3/2021
Heptachlor epoxide	ND	0.00025		mg/L	1	7/3/2021

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: July 08, 2021

**ANALYTICAL RESULTS**

Date Printed: July 08, 2021

Client: Huff &amp; Huff, Inc.

Client Sample ID: Irv-01

Work Order: 21061101 Revision 0

Collection Date: 6/29/2021 3:08:00 PM

Project: 81.0220359.21, Irving Park Bridge CDOT, Chicago

Matrix: Soil

Lab ID: 21061101-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Pesticides</b>	<b>SW1311/8081B (SW3510C)</b>		Prep Date: <b>7/2/2021</b>		Analyst: <b>GVC</b>	
Methoxychlor	ND	0.00025		mg/L	1	7/3/2021
Toxaphene	ND	0.0050		mg/L	1	7/3/2021
<b>Herbicides, TCLP Leached</b>	<b>SW1311/8321B (SW3510C)</b>		Prep Date: <b>7/2/2021</b>		Analyst: <b>MEP</b>	
2,4,5-TP (Silvex)	ND	0.0010		mg/L	1	7/6/2021
2,4-D	ND	0.0020		mg/L	1	7/6/2021
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>7/2/2021</b>		Analyst: <b>JG</b>	
Arsenic	ND	0.010		mg/L	5	7/6/2021
Barium	0.61	0.050		mg/L	5	7/6/2021
Cadmium	0.013	0.0050		mg/L	5	7/6/2021
Chromium	ND	0.010		mg/L	5	7/6/2021
Lead	0.046	0.0050		mg/L	5	7/6/2021
Selenium	ND	0.010		mg/L	5	7/6/2021
Silver	ND	0.010		mg/L	5	7/6/2021
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: <b>7/2/2021</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	7/2/2021
<b>Cyanide, Reactive</b>	<b>SW7.3.3.2</b>		Prep Date: <b>7/1/2021</b>		Analyst: <b>AJR</b>	
Reactive Cyanide	ND	1.0	*	mg/Kg	1	7/1/2021
<b>Sulfide, Reactive</b>	<b>SW7.3.4.2</b>		Prep Date: <b>7/1/2021</b>		Analyst: <b>MD</b>	
Reactive Sulfide	ND	10	*	mg/Kg	1	7/1/2021
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>7/1/2021</b>		Analyst: <b>AJR</b>	
pH	8.00			pH Units	1	7/1/2021
<b>Flash Point (Open-Cup)</b>	<b>SW1010(M)</b>		Prep Date: <b>7/1/2021</b>		Analyst: <b>RW</b>	
Flashpoint	No flash up to 212		*	°F	1	7/1/2021
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>7/1/2021</b>		Analyst: <b>JAT</b>	
Percent Moisture	17.5	0.2	*	wt%	1	7/2/2021
<b>Paint Filter</b>	<b>SW9095A</b>		Prep Date: <b>7/1/2021</b>		Analyst: <b>RW</b>	
Paint Filter	Pass			Pass/Fail	1	7/1/2021

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: July 08, 2021

**ANALYTICAL RESULTS**

Date Printed: July 08, 2021

Client: Huff &amp; Huff, Inc.

Client Sample ID: FP-01

Work Order: 21061101 Revision 0

Collection Date: 6/29/2021 3:10:00 PM

Project: 81.0220359.21, Irving Park Bridge CDOT, Chicago

Matrix: Soil

Lab ID: 21061101-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW5035/8260B</b>		Prep Date: <b>7/1/2021</b>		Analyst: <b>ERP</b>	
Acetone	ND	12		mg/Kg-dry	500	7/7/2021
Benzene	ND	0.30		mg/Kg-dry	500	7/7/2021
Bromodichloromethane	ND	0.30		mg/Kg-dry	500	7/7/2021
Bromoform	ND	0.30		mg/Kg-dry	500	7/7/2021
Bromomethane	ND	3.0		mg/Kg-dry	500	7/7/2021
2-Butanone	ND	1.2		mg/Kg-dry	500	7/7/2021
Carbon disulfide	ND	0.30		mg/Kg-dry	500	7/7/2021
Carbon tetrachloride	ND	1.2		mg/Kg-dry	500	7/7/2021
Chlorobenzene	ND	0.30		mg/Kg-dry	500	7/7/2021
Chloroethane	ND	1.2		mg/Kg-dry	500	7/7/2021
Chloroform	ND	1.2		mg/Kg-dry	500	7/7/2021
Chloromethane	ND	0.30		mg/Kg-dry	500	7/7/2021
Dibromochloromethane	ND	0.30		mg/Kg-dry	500	7/7/2021
1,1-Dichloroethane	ND	0.30		mg/Kg-dry	500	7/7/2021
1,2-Dichloroethane	ND	0.30		mg/Kg-dry	500	7/7/2021
1,1-Dichloroethene	ND	1.2		mg/Kg-dry	500	7/7/2021
cis-1,2-Dichloroethene	ND	0.30		mg/Kg-dry	500	7/7/2021
trans-1,2-Dichloroethene	ND	0.30		mg/Kg-dry	500	7/7/2021
1,2-Dichloropropane	ND	3.0		mg/Kg-dry	500	7/7/2021
cis-1,3-Dichloropropene	ND	0.30		mg/Kg-dry	500	7/7/2021
trans-1,3-Dichloropropene	ND	0.30		mg/Kg-dry	500	7/7/2021
Ethylbenzene	7.6	0.30		mg/Kg-dry	500	7/7/2021
2-Hexanone	ND	1.2		mg/Kg-dry	500	7/7/2021
4-Methyl-2-pentanone	ND	1.2		mg/Kg-dry	500	7/7/2021
Methylene chloride	ND	6.1		mg/Kg-dry	500	7/7/2021
Methyl tert-butyl ether	ND	0.30		mg/Kg-dry	500	7/7/2021
Styrene	3.3	0.30		mg/Kg-dry	500	7/7/2021
1,1,2,2-Tetrachloroethane	ND	0.30		mg/Kg-dry	500	7/7/2021
Tetrachloroethene	ND	0.30		mg/Kg-dry	500	7/7/2021
Toluene	2.3	0.30		mg/Kg-dry	500	7/7/2021
1,1,1-Trichloroethane	ND	0.30		mg/Kg-dry	500	7/7/2021
1,1,2-Trichloroethane	ND	1.2		mg/Kg-dry	500	7/7/2021
Trichloroethene	ND	1.2		mg/Kg-dry	500	7/7/2021
Vinyl chloride	ND	0.30		mg/Kg-dry	500	7/7/2021
Xylenes, Total	170	0.91		mg/Kg-dry	500	7/7/2021
<b>TCLP Volatile Organic Compounds by GC/MS</b>	<b>SW1311/8260B (SW5030B)</b>		Prep Date: <b>7/1/2021</b>		Analyst: <b>CBG</b>	
Benzene	ND	0.050		mg/L	10	7/7/2021
2-Butanone	ND	0.20		mg/L	10	7/7/2021

**Qualifiers:**  
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: July 08, 2021

**ANALYTICAL RESULTS**

Date Printed: July 08, 2021

Client: Huff &amp; Huff, Inc.

Client Sample ID: FP-01

Work Order: 21061101 Revision 0

Collection Date: 6/29/2021 3:10:00 PM

Project: 81.0220359.21, Irving Park Bridge CDOT, Chicago

Matrix: Soil

Lab ID: 21061101-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Volatile Organic Compounds by GC/MS</b>	<b>SW1311/8260B (SW5030B)</b>					Prep Date: 7/1/2021 Analyst: CBG
Carbon tetrachloride	ND	0.050		mg/L	10	7/7/2021
Chlorobenzene	ND	0.050		mg/L	10	7/7/2021
Chloroform	ND	0.050		mg/L	10	7/7/2021
1,2-Dichloroethane	ND	0.050		mg/L	10	7/7/2021
1,1-Dichloroethene	ND	0.050		mg/L	10	7/7/2021
Tetrachloroethene	ND	0.050		mg/L	10	7/7/2021
Trichloroethene	ND	0.050		mg/L	10	7/7/2021
Vinyl chloride	ND	0.050		mg/L	10	7/7/2021
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>					Prep Date: 7/1/2021 Analyst: TEM
Acenaphthene	ND	3.2		mg/Kg-dry	1	7/6/2021
Acenaphthylene	ND	3.2		mg/Kg-dry	1	7/6/2021
Aniline	ND	32		mg/Kg-dry	1	7/6/2021
Anthracene	ND	3.2		mg/Kg-dry	1	7/6/2021
Benz(a)anthracene	ND	3.2		mg/Kg-dry	1	7/6/2021
Benzidine	ND	32		mg/Kg-dry	1	7/6/2021
Benzo(a)pyrene	ND	3.2		mg/Kg-dry	1	7/6/2021
Benzo(b)fluoranthene	ND	3.2		mg/Kg-dry	1	7/6/2021
Benzo(g,h,i)perylene	ND	3.2		mg/Kg-dry	1	7/6/2021
Benzo(k)fluoranthene	ND	3.2		mg/Kg-dry	1	7/6/2021
Benzoic acid	ND	79		mg/Kg-dry	1	7/6/2021
Benzyl alcohol	ND	16		mg/Kg-dry	1	7/6/2021
Bis(2-chloroethoxy)methane	ND	16		mg/Kg-dry	1	7/6/2021
Bis(2-chloroethyl)ether	ND	16		mg/Kg-dry	1	7/6/2021
Bis(2-ethylhexyl)phthalate	ND	79		mg/Kg-dry	1	7/6/2021
4-Bromophenyl phenyl ether	ND	16		mg/Kg-dry	1	7/6/2021
Butyl benzyl phthalate	ND	79		mg/Kg-dry	1	7/6/2021
Carbazole	ND	16		mg/Kg-dry	1	7/6/2021
4-Chloroaniline	ND	16		mg/Kg-dry	1	7/6/2021
4-Chloro-3-methylphenol	ND	32		mg/Kg-dry	1	7/6/2021
2-Chloronaphthalene	ND	16		mg/Kg-dry	1	7/6/2021
2-Chlorophenol	ND	16		mg/Kg-dry	1	7/6/2021
4-Chlorophenyl phenyl ether	ND	16		mg/Kg-dry	1	7/6/2021
Chrysene	ND	3.2		mg/Kg-dry	1	7/6/2021
Dibenz(a,h)anthracene	ND	3.2		mg/Kg-dry	1	7/6/2021
Dibenzofuran	ND	16		mg/Kg-dry	1	7/6/2021
1,2-Dichlorobenzene	ND	16		mg/Kg-dry	1	7/6/2021
1,3-Dichlorobenzene	ND	16		mg/Kg-dry	1	7/6/2021
1,4-Dichlorobenzene	ND	16		mg/Kg-dry	1	7/6/2021

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

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Date Reported: July 08, 2021

**ANALYTICAL RESULTS**

Date Printed: July 08, 2021

Client: Huff &amp; Huff, Inc.

Client Sample ID: FP-01

Work Order: 21061101 Revision 0

Collection Date: 6/29/2021 3:10:00 PM

Project: 81.0220359.21, Irving Park Bridge CDOT, Chicago

Matrix: Soil

Lab ID: 21061101-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>			Prep Date: 7/1/2021		Analyst: TEM
3,3'-Dichlorobenzidine	ND	16		mg/Kg-dry	1	7/6/2021
2,4-Dichlorophenol	ND	16		mg/Kg-dry	1	7/6/2021
Diethyl phthalate	ND	79		mg/Kg-dry	1	7/6/2021
2,4-Dimethylphenol	ND	16		mg/Kg-dry	1	7/6/2021
Dimethyl phthalate	ND	79		mg/Kg-dry	1	7/6/2021
4,6-Dinitro-2-methylphenol	ND	32		mg/Kg-dry	1	7/6/2021
2,4-Dinitrophenol	ND	79		mg/Kg-dry	1	7/6/2021
2,4-Dinitrotoluene	ND	3.2		mg/Kg-dry	1	7/6/2021
2,6-Dinitrotoluene	ND	3.2		mg/Kg-dry	1	7/6/2021
Di-n-butyl phthalate	ND	79		mg/Kg-dry	1	7/6/2021
Di-n-octyl phthalate	ND	79		mg/Kg-dry	1	7/6/2021
Fluoranthene	ND	3.2		mg/Kg-dry	1	7/6/2021
Fluorene	5.1	3.2		mg/Kg-dry	1	7/6/2021
Hexachlorobenzene	ND	16		mg/Kg-dry	1	7/6/2021
Hexachlorobutadiene	ND	16		mg/Kg-dry	1	7/6/2021
Hexachlorocyclopentadiene	ND	16		mg/Kg-dry	1	7/6/2021
Hexachloroethane	ND	16		mg/Kg-dry	1	7/6/2021
Indeno(1,2,3-cd)pyrene	ND	3.2		mg/Kg-dry	1	7/6/2021
Isophorone	ND	16		mg/Kg-dry	1	7/6/2021
2-Methylnaphthalene	33	16		mg/Kg-dry	1	7/6/2021
2-Methylphenol	ND	16		mg/Kg-dry	1	7/6/2021
4-Methylphenol	ND	16		mg/Kg-dry	1	7/6/2021
Naphthalene	34	3.2		mg/Kg-dry	1	7/6/2021
2-Nitroaniline	ND	16		mg/Kg-dry	1	7/6/2021
3-Nitroaniline	ND	16		mg/Kg-dry	1	7/6/2021
4-Nitroaniline	ND	16		mg/Kg-dry	1	7/6/2021
2-Nitrophenol	ND	16		mg/Kg-dry	1	7/6/2021
4-Nitrophenol	ND	32		mg/Kg-dry	1	7/6/2021
Nitrobenzene	ND	3.2		mg/Kg-dry	1	7/6/2021
N-Nitrosodi-n-propylamine	ND	3.2		mg/Kg-dry	1	7/6/2021
N-Nitrosodimethylamine	ND	16		mg/Kg-dry	1	7/6/2021
N-Nitrosodiphenylamine	ND	16		mg/Kg-dry	1	7/6/2021
2, 2'-oxybis(1-Chloropropane)	ND	16		mg/Kg-dry	1	7/6/2021
Pentachlorophenol	ND	6.4		mg/Kg-dry	1	7/6/2021
Phenanthrene	4.6	3.2		mg/Kg-dry	1	7/6/2021
Phenol	ND	16		mg/Kg-dry	1	7/6/2021
Pyrene	ND	3.2		mg/Kg-dry	1	7/6/2021
Pyridine	ND	64		mg/Kg-dry	1	7/6/2021

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

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Date Reported: July 08, 2021

Date Printed: July 08, 2021

**ANALYTICAL RESULTS**

Client: Huff &amp; Huff, Inc.

Client Sample ID: FP-01

Work Order: 21061101 Revision 0

Collection Date: 6/29/2021 3:10:00 PM

Project: 81.0220359.21, Irving Park Bridge CDOT, Chicago

Matrix: Soil

Lab ID: 21061101-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>			Prep Date: 7/1/2021		Analyst: TEM
1,2,4-Trichlorobenzene	ND	16		mg/Kg-dry	1	7/6/2021
2,4,5-Trichlorophenol	ND	16		mg/Kg-dry	1	7/6/2021
2,4,6-Trichlorophenol	ND	16		mg/Kg-dry	1	7/6/2021
<b>TCLP Semivolatile Organic Compounds</b>	<b>SW1311/8270C (SW3510C)</b>			Prep Date: 7/2/2021		Analyst: DM
1,4-Dichlorobenzene	ND	0.010		mg/L	1	7/6/2021
2,4-Dinitrotoluene	ND	0.010		mg/L	1	7/6/2021
Hexachlorobenzene	ND	0.010		mg/L	1	7/6/2021
Hexachlorobutadiene	ND	0.010		mg/L	1	7/6/2021
Hexachloroethane	ND	0.010		mg/L	1	7/6/2021
Nitrobenzene	ND	0.010		mg/L	1	7/6/2021
2-methylphenol	ND	0.010		mg/L	1	7/6/2021
3- & 4-Methylphenol	ND	0.010		mg/L	1	7/6/2021
Pentachlorophenol	ND	0.050		mg/L	1	7/6/2021
Pyridine	ND	0.010		mg/L	1	7/6/2021
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	7/6/2021
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	7/6/2021
<b>PCBs in Solid</b>	<b>SW8082A (SW3580A)</b>			Prep Date: 7/1/2021		Analyst: GVC
Aroclor 1016	ND	1.2		mg/Kg-dry	1	7/2/2021
Aroclor 1221	ND	1.2		mg/Kg-dry	1	7/2/2021
Aroclor 1232	ND	1.2		mg/Kg-dry	1	7/2/2021
Aroclor 1242	ND	1.2		mg/Kg-dry	1	7/2/2021
Aroclor 1248	ND	1.2		mg/Kg-dry	1	7/2/2021
Aroclor 1254	ND	1.2		mg/Kg-dry	1	7/2/2021
Aroclor 1260	ND	1.2		mg/Kg-dry	1	7/2/2021
<b>TCLP Pesticides</b>	<b>SW1311/8081B (SW3510C)</b>			Prep Date: 7/2/2021		Analyst: GVC
Chlordane	ND	0.0050		mg/L	1	7/3/2021
Endrin	ND	0.00050		mg/L	1	7/3/2021
gamma-BHC	ND	0.0025		mg/L	1	7/3/2021
Heptachlor	ND	0.00025		mg/L	1	7/3/2021
Heptachlor epoxide	ND	0.00025		mg/L	1	7/3/2021
Methoxychlor	ND	0.00025		mg/L	1	7/3/2021
Toxaphene	ND	0.0050		mg/L	1	7/3/2021
<b>Total Petroleum Hydrocarbons</b>	<b>SW8015M (SW3580A)</b>			Prep Date: 6/30/2021		Analyst: GVC
TPH (GRO)	44000	2400		mg/Kg-dry	10	7/2/2021
TPH (DRO)	110000	2400		mg/Kg-dry	10	7/2/2021
TPH (ERO)	96000	2400	*	mg/Kg-dry	10	7/2/2021

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

Qualifiers: J - Analyte detected below quantitation limits

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B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: July 08, 2021

Date Printed: July 08, 2021

**ANALYTICAL RESULTS**

Client: Huff &amp; Huff, Inc.

Client Sample ID: FP-01

Work Order: 21061101 Revision 0

Collection Date: 6/29/2021 3:10:00 PM

Project: 81.0220359.21, Irving Park Bridge CDOT, Chicago

Matrix: Soil

Lab ID: 21061101-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Herbicides, TCLP Leached</b>	<b>SW1311/8321B (SW3510C)</b>		Prep Date: <b>7/2/2021</b>		Analyst: <b>MEP</b>	
2,4,5-TP (Silvex)	ND	0.0010		mg/L	1	7/6/2021
2,4-D	ND	0.0020		mg/L	1	7/6/2021
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>		Prep Date: <b>7/1/2021</b>		Analyst: <b>JG</b>	
Arsenic	12	1.1		mg/Kg-dry	10	7/2/2021
Barium	870	1.1		mg/Kg-dry	10	7/2/2021
Cadmium	6.8	0.53		mg/Kg-dry	10	7/2/2021
Chromium	590	1.1		mg/Kg-dry	10	7/2/2021
Lead	3500	0.53		mg/Kg-dry	10	7/2/2021
Selenium	ND	1.1		mg/Kg-dry	10	7/2/2021
Silver	ND	1.1		mg/Kg-dry	10	7/2/2021
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>		Prep Date: <b>7/2/2021</b>		Analyst: <b>JG</b>	
Arsenic	ND	0.010		mg/L	5	7/6/2021
Barium	0.70	0.050		mg/L	5	7/6/2021
Cadmium	0.086	0.0050		mg/L	5	7/6/2021
Chromium	ND	0.010		mg/L	5	7/6/2021
Lead	1.0	0.0050		mg/L	5	7/6/2021
Selenium	ND	0.010		mg/L	5	7/6/2021
Silver	ND	0.010		mg/L	5	7/6/2021
<b>TCLP Mercury</b>	<b>SW1311/7470A</b>		Prep Date: <b>7/2/2021</b>		Analyst: <b>LB</b>	
Mercury	ND	0.00020		mg/L	1	7/2/2021
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: <b>7/2/2021</b>		Analyst: <b>LB</b>	
Mercury	0.34	0.022		mg/Kg-dry	1	7/2/2021
<b>Cyanide, Reactive</b>	<b>SW7.3.3.2</b>		Prep Date: <b>7/1/2021</b>		Analyst: <b>AJR</b>	
Reactive Cyanide	ND	1.0	*	mg/Kg	1	7/1/2021
<b>Sulfide, Reactive</b>	<b>SW7.3.4.2</b>		Prep Date: <b>7/1/2021</b>		Analyst: <b>MD</b>	
Reactive Sulfide	ND	10	*	mg/Kg	1	7/1/2021
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>7/1/2021</b>		Analyst: <b>AJR</b>	
pH	9.04			pH Units	1	7/1/2021
<b>Flash Point (Open-Cup)</b>	<b>SW1010(M)</b>		Prep Date: <b>7/1/2021</b>		Analyst: <b>RW</b>	
Flashpoint	No flash up to 212		*	°F	1	7/1/2021
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>7/1/2021</b>		Analyst: <b>JAT</b>	
Percent Moisture	20.6	0.2	*	wt%	1	7/2/2021
<b>Paint Filter</b>	<b>SW9095A</b>		Prep Date: <b>7/1/2021</b>		Analyst: <b>RW</b>	

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: July 08, 2021

**ANALYTICAL RESULTS**

Date Printed: July 08, 2021

Client: Huff &amp; Huff, Inc.

Client Sample ID: FP-01

Work Order: 21061101 Revision 0

Collection Date: 6/29/2021 3:10:00 PM

Project: 81.0220359.21, Irving Park Bridge CDOT, Chicago

Matrix: Soil

Lab ID: 21061101-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Paint Filter</b>	<b>SW9095A</b>				Prep Date: <b>7/1/2021</b>	Analyst: <b>RW</b>
Paint Filter	Pass			Pass/Fail	1	7/1/2021

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded







March 23, 2021

Ashok Guntaka  
INTERRA, Inc.  
600 Territorial Drive, Suite G  
Bolingbrook, IL 60440

**Workorder: 2103B63**

TEL: (630) 754-8700  
FAX: (630) 754-8705  
RE: 75th St CIP

Dear Ashok Guntaka:

Suburban Laboratories, Inc. received 15 sample(s) on 3/11/2021 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,



Keith Sinon  
Project Manager  
708-544-3260 ext 212  
keith@suburbanlabs.com





**Client:** INTERRA, Inc.

**Date:** March 23, 2021

**Project:** 75th St CIP

**PO #:**

**WorkOrder:** 2103B63

**QC Level:**

**Temperature of samples upon receipt at SLI:** 5 C

**Chain of Custody #:**

**General Comments:**

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

**Abbreviations:**

- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

**Method References:**

For a complete list of method references please contact us.

- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

**Workorder Specific Comments:**

Lab.G = Samples subcontracted to STAT Analysis Corp. (IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP Lab Code 101202) , for some of the analysis requested.



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

# Laboratory Results

Client ID: INTERRA, Inc.

Report Date: March 23, 2021

Project Name: 75th St CIP

Workorder: 2103B63

Client Sample ID: Disp 1

Matrix: SOIL

Lab ID: 2103B63-003

Date Received: 03/11/2021 10:32 AM

Collection Date: 03/09/2021 1:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>SEMIVOLATILES, TCLP LEACHED</b>		Method: EPA-1311/8270C-Rev 3, Dec-96			Analyst: ES		
1,4-Dichlorobenzene	ND	0.100		mg/L	1	03/18/2021 4:32 PM	72193
2,4,5-Trichlorophenol	ND	0.100		mg/L	1	03/18/2021 4:32 PM	72193
2,4,6-Trichlorophenol	ND	0.100		mg/L	1	03/18/2021 4:32 PM	72193
2,4-Dinitrotoluene	ND	0.100		mg/L	1	03/18/2021 4:32 PM	72193
Hexachlorobenzene	ND	0.100		mg/L	1	03/18/2021 4:32 PM	72193
Hexachlorobutadiene	ND	0.100		mg/L	1	03/18/2021 4:32 PM	72193
Hexachloroethane	ND	0.100		mg/L	1	03/18/2021 4:32 PM	72193
m,p-Cresol	ND	0.100		mg/L	1	03/18/2021 4:32 PM	72193
Nitrobenzene	ND	0.100		mg/L	1	03/18/2021 4:32 PM	72193
O-Cresol	ND	0.100		mg/L	1	03/18/2021 4:32 PM	72193
Pentachlorophenol	ND	0.100		mg/L	1	03/18/2021 4:32 PM	72193
Pyridine	ND	0.100		mg/L	1	03/18/2021 4:32 PM	72193
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	30.5	10-190		%Rec	1	03/18/2021 4:32 PM	72193
SS: 2-Fluorobiphenyl	72.9	37.7-110		%Rec	1	03/18/2021 4:32 PM	72193
SS: 2-Fluorophenol	4.98	11.1-127	S	%Rec	1	03/18/2021 4:32 PM	72193
SS: Nitrobenzene-d5	81.0	27.2-110		%Rec	1	03/18/2021 4:32 PM	72193
SS: Phenol-d6	2.74	9.97-133	S	%Rec	1	03/18/2021 4:32 PM	72193
<b>METALS BY ICP, TCLP LEACHED</b>		Method: EPA-1311/6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	ND	0.010		mg/L	1	03/18/2021 2:23 PM	72265
Barium	1.4	0.25		mg/L	1	03/18/2021 2:23 PM	72265
Cadmium	0.0040	0.0010		mg/L	1	03/18/2021 2:23 PM	72265
Chromium	0.19	0.025		mg/L	1	03/18/2021 2:23 PM	72265
Lead	0.065	0.0050		mg/L	1	03/18/2021 2:23 PM	72265
Selenium	ND	0.025		mg/L	1	03/18/2021 2:23 PM	72265
Silver	ND	0.025		mg/L	1	03/18/2021 2:23 PM	72265
<b>PESTICIDES, TCLP LEACHED</b>		Method: EPA-1311/8081A-Rev 1, Dec-96			Analyst: SP		
Chlordane	ND	0.0050		mg/L	1	03/19/2021 4:42 PM	72234
Endrin	ND	0.00050		mg/L	1	03/19/2021 4:42 PM	72234
gamma-BHC	ND	0.00025		mg/L	1	03/19/2021 4:42 PM	72234
Heptachlor	ND	0.00025		mg/L	1	03/19/2021 4:42 PM	72234
Heptachlor epoxide	ND	0.00025		mg/L	1	03/19/2021 4:42 PM	72234
Methoxychlor	ND	0.0025		mg/L	1	03/19/2021 4:42 PM	72234
Toxaphene	ND	0.010		mg/L	1	03/19/2021 4:42 PM	72234



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

## Laboratory Results

Client ID: INTERRA, Inc.

Report Date: March 23, 2021

Project Name: 75th St CIP

Workorder: 2103B63

Client Sample ID: Disp 1

Matrix: SOIL

Lab ID: 2103B63-003

Date Received: 03/11/2021 10:32 AM

Collection Date: 03/09/2021 1:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>PESTICIDES, TCLP LEACHED</b>		Method: EPA-1311/8081A-Rev 1, Dec-96		Analyst: SP			
<u>Internal Quality Control Compounds</u>							
SS: Tetrachloro-m-xylene	64.3	21-128		%Rec	1	03/19/2021 4:42 PM	72234
<b>VOLATILES, TCLP LEACHED</b>		Method: EPA-1311/8260B-Rev 2, Dec-96		Analyst: RWM			
1,1-Dichloroethene	ND	0.100		mg/L	100	03/16/2021 4:34 PM	72179
1,2-Dichloroethane	ND	0.100		mg/L	100	03/16/2021 4:34 PM	72179
2-Butanone	ND	0.500		mg/L	100	03/16/2021 4:34 PM	72179
Benzene	ND	0.100		mg/L	100	03/16/2021 4:34 PM	72179
Carbon tetrachloride	ND	0.100		mg/L	100	03/16/2021 4:34 PM	72179
Chlorobenzene	ND	0.100		mg/L	100	03/16/2021 4:34 PM	72179
Chloroform	ND	0.100		mg/L	100	03/16/2021 4:34 PM	72179
Tetrachloroethene	ND	0.100		mg/L	100	03/16/2021 4:34 PM	72179
Trichloroethene	ND	0.100		mg/L	100	03/16/2021 4:34 PM	72179
Vinyl chloride	ND	0.100		mg/L	100	03/16/2021 4:34 PM	72179
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	114	70-130		%Rec	100	03/16/2021 4:34 PM	72179
SS: Dibromofluoromethane	101	70-130		%Rec	100	03/16/2021 4:34 PM	72179
SS: Toluene-d8	96.9	70-130		%Rec	100	03/16/2021 4:34 PM	72179
<b>PCBS</b>		Method: EPA-8082-Rev 0, Dec-96		Analyst: PSP			
Aroclor 1016	ND	0.0208		mg/Kg-dry	1	03/18/2021 1:04 AM	72154
Aroclor 1221	ND	0.0208		mg/Kg-dry	1	03/18/2021 1:04 AM	72154
Aroclor 1232	ND	0.0208		mg/Kg-dry	1	03/18/2021 1:04 AM	72154
Aroclor 1242	ND	0.0208		mg/Kg-dry	1	03/18/2021 1:04 AM	72154
Aroclor 1248	ND	0.0208		mg/Kg-dry	1	03/18/2021 1:04 AM	72154
Aroclor 1254	ND	0.0208		mg/Kg-dry	1	03/18/2021 1:04 AM	72154
Aroclor 1260	ND	0.0208		mg/Kg-dry	1	03/18/2021 1:04 AM	72154
<u>Internal Quality Control Compounds</u>							
SS: Tetrachloro-m-xylene	55.9	33.7-156		%Rec	1	03/18/2021 1:04 AM	72154
<b>CYANIDE, REACTIVE</b>		Method: EPA-SW7.3.3.2-Rev SW7.3.3.2		Analyst: kjs			
Reactive Cyanide	ND	1.3		mg/Kg-dry	1	03/16/2021 12:00 AM	R131070
<b>FLASH POINT, OPEN CUP</b>		Method: ASTM-D92-Rev 2002b		Analyst: AD			
Flash Point	>212	0	c	°F	1	03/17/2021 9:56 AM	R130905
<b>MERCURY BY CVAA, TCLP</b>		Method: EPA-1311/7470A-Rev 1, Sep-94		Analyst: MTS			



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

## Laboratory Results

Client ID: INTERRA, Inc.

Report Date: March 23, 2021

Project Name: 75th St CIP

Workorder: 2103B63

Client Sample ID: Disp 1

Matrix: SOIL

Lab ID: 2103B63-003

Date Received: 03/11/2021 10:32 AM

Collection Date: 03/09/2021 1:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>MERCURY BY CVAA, TCLP</b>		Method: EPA-1311/7470A-Rev 1, Sep-94			Analyst: MTS		
Mercury	ND	0.0002		mg/L	1	03/17/2021 2:35 PM	72212
<b>PAINT FILTER</b>		Method: EPA-9095A-Rev 1, Dec-96			Analyst: AD		
Free Liquids	PASS	0	c	Pass/Fail	1	03/17/2021 9:56 AM	R130905
<b>PH (IN LABORATORY) &lt;ATC&gt;</b>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	8.13	1.00		pH Units	1	03/15/2021 12:22 PM	R130828
<b>PHENOLICS</b>		Method: EPA-9065-Rev 0, Sep-86			Analyst: STP		
Phenolics, Total Recoverable	ND	0.322	c	mg/kg-dry	50	03/16/2021 1:05 PM	R130869
<b>PERCENT MOISTURE</b>		Method: ASTM-D2216-Rev 2005			Analyst: ALB		
Percent Moisture	22	1.0	c	wt%	1	03/11/2021 3:56 PM	R130693
<b>SULFIDE, REACTIVE</b>		Method: EPA-SW7.3.4.2-Rev SW7.3.4.2			Analyst: kjs		
Reactive Sulfide	ND	12.9		mg/Kg-dry	1	03/12/2021 12:00 AM	R131070
<b>HERBICIDES, TCLP LEACHED (SUBCONTRACTED)</b>		Method:			Analyst: kjs		
Silvex {Z}	ND	0.0010			1	03/19/2021 12:00 AM	R131070
2,4-D	ND	0.0020			1	03/19/2021 12:00 AM	R131070



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

## Laboratory Results

Client ID: INTERRA, Inc.

Report Date: March 23, 2021

Project Name: 75th St CIP

Workorder: 2103B63

Client Sample ID: Disp 2

Matrix: SOIL

Lab ID: 2103B63-006

Date Received: 03/11/2021 10:32 AM

Collection Date: 03/09/2021 12:45 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>SEMIVOLATILES, TCLP LEACHED</b>		Method: EPA-1311/8270C-Rev 3, Dec-96			Analyst: ES		
1,4-Dichlorobenzene	ND	0.100		mg/L	1	03/18/2021 5:12 PM	72193
2,4,5-Trichlorophenol	ND	0.100		mg/L	1	03/18/2021 5:12 PM	72193
2,4,6-Trichlorophenol	ND	0.100		mg/L	1	03/18/2021 5:12 PM	72193
2,4-Dinitrotoluene	ND	0.100		mg/L	1	03/18/2021 5:12 PM	72193
Hexachlorobenzene	ND	0.100		mg/L	1	03/18/2021 5:12 PM	72193
Hexachlorobutadiene	ND	0.100		mg/L	1	03/18/2021 5:12 PM	72193
Hexachloroethane	ND	0.100		mg/L	1	03/18/2021 5:12 PM	72193
m,p-Cresol	ND	0.100		mg/L	1	03/18/2021 5:12 PM	72193
Nitrobenzene	ND	0.100		mg/L	1	03/18/2021 5:12 PM	72193
O-Cresol	ND	0.100		mg/L	1	03/18/2021 5:12 PM	72193
Pentachlorophenol	ND	0.100		mg/L	1	03/18/2021 5:12 PM	72193
Pyridine	ND	0.100		mg/L	1	03/18/2021 5:12 PM	72193
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	61.9	10-190		%Rec	1	03/18/2021 5:12 PM	72193
SS: 2-Fluorobiphenyl	75.9	37.7-110		%Rec	1	03/18/2021 5:12 PM	72193
SS: 2-Fluorophenol	42.4	11.1-127		%Rec	1	03/18/2021 5:12 PM	72193
SS: Nitrobenzene-d5	81.0	27.2-110		%Rec	1	03/18/2021 5:12 PM	72193
SS: Phenol-d6	47.6	9.97-133		%Rec	1	03/18/2021 5:12 PM	72193
<b>METALS BY ICP, TCLP LEACHED</b>		Method: EPA-1311/6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	ND	0.010		mg/L	1	03/18/2021 2:31 PM	72265
Barium	0.45	0.25		mg/L	1	03/18/2021 2:31 PM	72265
Cadmium	0.0050	0.0010		mg/L	1	03/18/2021 2:31 PM	72265
Chromium	ND	0.025		mg/L	1	03/18/2021 2:31 PM	72265
Lead	0.15	0.0050		mg/L	1	03/18/2021 2:31 PM	72265
Selenium	ND	0.025		mg/L	1	03/18/2021 2:31 PM	72265
Silver	ND	0.025		mg/L	1	03/18/2021 2:31 PM	72265
<b>PESTICIDES, TCLP LEACHED</b>		Method: EPA-1311/8081A-Rev 1, Dec-96			Analyst: SP		
Chlordane	ND	0.0050		mg/L	1	03/19/2021 5:07 PM	72234
Endrin	ND	0.00050		mg/L	1	03/19/2021 5:07 PM	72234
gamma-BHC	ND	0.00025		mg/L	1	03/19/2021 5:07 PM	72234
Heptachlor	ND	0.00025		mg/L	1	03/19/2021 5:07 PM	72234
Heptachlor epoxide	ND	0.00025		mg/L	1	03/19/2021 5:07 PM	72234
Methoxychlor	ND	0.0025		mg/L	1	03/19/2021 5:07 PM	72234
Toxaphene	ND	0.010		mg/L	1	03/19/2021 5:07 PM	72234



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

## Laboratory Results

Client ID: INTERRA, Inc.

Report Date: March 23, 2021

Project Name: 75th St CIP

Workorder: 2103B63

Client Sample ID: Disp 2

Matrix: SOIL

Lab ID: 2103B63-006

Date Received: 03/11/2021 10:32 AM

Collection Date: 03/09/2021 12:45 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>PESTICIDES, TCLP LEACHED</b>		Method: EPA-1311/8081A-Rev 1, Dec-96			Analyst: SP		
<u>Internal Quality Control Compounds</u>							
SS: Tetrachloro-m-xylene	67.9	21-128		%Rec	1	03/19/2021 5:07 PM	72234
<b>VOLATILES, TCLP LEACHED</b>		Method: EPA-1311/8260B-Rev 2, Dec-96			Analyst: RWM		
1,1-Dichloroethene	ND	0.100		mg/L	100	03/16/2021 4:59 PM	72179
1,2-Dichloroethane	ND	0.100		mg/L	100	03/16/2021 4:59 PM	72179
2-Butanone	ND	0.500		mg/L	100	03/16/2021 4:59 PM	72179
Benzene	ND	0.100		mg/L	100	03/16/2021 4:59 PM	72179
Carbon tetrachloride	ND	0.100		mg/L	100	03/16/2021 4:59 PM	72179
Chlorobenzene	ND	0.100		mg/L	100	03/16/2021 4:59 PM	72179
Chloroform	ND	0.100		mg/L	100	03/16/2021 4:59 PM	72179
Tetrachloroethene	ND	0.100		mg/L	100	03/16/2021 4:59 PM	72179
Trichloroethene	ND	0.100		mg/L	100	03/16/2021 4:59 PM	72179
Vinyl chloride	ND	0.100		mg/L	100	03/16/2021 4:59 PM	72179
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	113	70-130		%Rec	100	03/16/2021 4:59 PM	72179
SS: Dibromofluoromethane	100	70-130		%Rec	100	03/16/2021 4:59 PM	72179
SS: Toluene-d8	97.1	70-130		%Rec	100	03/16/2021 4:59 PM	72179
<b>PCBS</b>		Method: EPA-8082-Rev 0, Dec-96			Analyst: PSP		
Aroclor 1016	ND	0.0196		mg/Kg-dry	1	03/18/2021 1:28 AM	72154
Aroclor 1221	ND	0.0196		mg/Kg-dry	1	03/18/2021 1:28 AM	72154
Aroclor 1232	ND	0.0196		mg/Kg-dry	1	03/18/2021 1:28 AM	72154
Aroclor 1242	ND	0.0196		mg/Kg-dry	1	03/18/2021 1:28 AM	72154
Aroclor 1248	ND	0.0196		mg/Kg-dry	1	03/18/2021 1:28 AM	72154
Aroclor 1254	ND	0.0196		mg/Kg-dry	1	03/18/2021 1:28 AM	72154
Aroclor 1260	ND	0.0196		mg/Kg-dry	1	03/18/2021 1:28 AM	72154
<u>Internal Quality Control Compounds</u>							
SS: Tetrachloro-m-xylene	38.2	33.7-156		%Rec	1	03/18/2021 1:28 AM	72154
<b>CYANIDE, REACTIVE</b>		Method: EPA-SW7.3.3.2-Rev SW7.3.3.2			Analyst: kjs		
Reactive Cyanide	ND	1.2		mg/Kg-dry	1	03/16/2021 12:00 AM	R131070
<b>FLASH POINT, OPEN CUP</b>		Method: ASTM-D92-Rev 2002b			Analyst: AD		
Flash Point	No Flash	0	c	°F	1	03/17/2021 9:56 AM	R130905
<b>MERCURY BY CVAA, TCLP</b>		Method: EPA-1311/7470A-Rev 1, Sep-94			Analyst: MTS		



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

## Laboratory Results

**Client ID:** INTERRA, Inc.

**Report Date:** March 23, 2021

**Project Name:** 75th St CIP

**Workorder:** 2103B63

**Client Sample ID:** Disp 2

**Matrix:** SOIL

**Lab ID:** 2103B63-006

**Date Received:** 03/11/2021 10:32 AM

**Collection Date:** 03/09/2021 12:45 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>MERCURY BY CVAA, TCLP</b>		Method: EPA-1311/7470A-Rev 1, Sep-94			Analyst: MTS		
Mercury	ND	0.0002		mg/L	1	03/17/2021 2:15 PM	72212
<b>PAINT FILTER</b>		Method: EPA-9095A-Rev 1, Dec-96			Analyst: AD		
Free Liquids	PASS	0	c	Pass/Fail	1	03/17/2021 9:56 AM	R130905
<b>PH (IN LABORATORY) &lt;ATC&gt;</b>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	7.68	1.00		pH Units	1	03/15/2021 12:26 PM	R130828
<b>PHENOLICS</b>		Method: EPA-9065-Rev 0, Sep-86			Analyst: STP		
Phenolics, Total Recoverable	ND	0.305	c	mg/kg-dry	50	03/16/2021 1:05 PM	R130869
<b>PERCENT MOISTURE</b>		Method: ASTM-D2216-Rev 2005			Analyst: ALB		
Percent Moisture	18	1.0	c	wt%	1	03/16/2021 4:23 PM	R130890
<b>SULFIDE, REACTIVE</b>		Method: EPA-SW7.3.4.2-Rev SW7.3.4.2			Analyst: kjs		
Reactive Sulfide	ND	12.2		mg/Kg-dry	1	03/12/2021 12:00 AM	R131070
<b>HERBICIDES, TCLP LEACHED (SUBCONTRACTED)</b>		Method:			Analyst: kjs		
Silvex {Z}	ND	0.0010			1	03/19/2021 12:00 AM	R131070
2,4-D	ND	0.0020			1	03/19/2021 12:00 AM	R131070



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

## Laboratory Results

Client ID: INTERRA, Inc.

Report Date: March 23, 2021

Project Name: 75th St CIP

Workorder: 2103B63

Client Sample ID: Disp 3

Matrix: SOIL

Lab ID: 2103B63-009

Date Received: 03/11/2021 10:32 AM

Collection Date: 03/10/2021 9:35 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>SEMIVOLATILES, TCLP LEACHED</b>		Method: EPA-1311/8270C-Rev 3, Dec-96			Analyst: ES		
1,4-Dichlorobenzene	ND	0.100	H	mg/L	1	03/19/2021 2:33 PM	72287
2,4,5-Trichlorophenol	ND	0.100	H	mg/L	1	03/19/2021 2:33 PM	72287
2,4,6-Trichlorophenol	ND	0.100	H	mg/L	1	03/19/2021 2:33 PM	72287
2,4-Dinitrotoluene	ND	0.100	H	mg/L	1	03/19/2021 2:33 PM	72287
Hexachlorobenzene	ND	0.100	H	mg/L	1	03/19/2021 2:33 PM	72287
Hexachlorobutadiene	ND	0.100	H	mg/L	1	03/19/2021 2:33 PM	72287
Hexachloroethane	ND	0.100	H	mg/L	1	03/19/2021 2:33 PM	72287
m,p-Cresol	ND	0.100	H	mg/L	1	03/19/2021 2:33 PM	72287
Nitrobenzene	ND	0.100	H	mg/L	1	03/19/2021 2:33 PM	72287
O-Cresol	ND	0.100	H	mg/L	1	03/19/2021 2:33 PM	72287
Pentachlorophenol	ND	0.100	H	mg/L	1	03/19/2021 2:33 PM	72287
Pyridine	ND	0.100	H	mg/L	1	03/19/2021 2:33 PM	72287
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	62.7	10-190	H	%Rec	1	03/19/2021 2:33 PM	72287
SS: 2-Fluorobiphenyl	72.4	37.7-110	H	%Rec	1	03/19/2021 2:33 PM	72287
SS: 2-Fluorophenol	44.5	11.1-127	H	%Rec	1	03/19/2021 2:33 PM	72287
SS: Nitrobenzene-d5	70.2	27.2-110	H	%Rec	1	03/19/2021 2:33 PM	72287
SS: Phenol-d6	52.6	9.97-133	H	%Rec	1	03/19/2021 2:33 PM	72287
<b>METALS BY ICP, TCLP LEACHED</b>		Method: EPA-1311/6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	ND	0.010		mg/L	1	03/18/2021 2:56 PM	72266
Barium	0.82	0.25		mg/L	1	03/18/2021 2:56 PM	72266
Cadmium	0.0038	0.0010		mg/L	1	03/18/2021 2:56 PM	72266
Chromium	0.14	0.025		mg/L	1	03/18/2021 2:56 PM	72266
Lead	0.24	0.0050		mg/L	1	03/18/2021 2:56 PM	72266
Selenium	ND	0.025		mg/L	1	03/18/2021 2:56 PM	72266
Silver	ND	0.025		mg/L	1	03/18/2021 2:56 PM	72266
<b>PESTICIDES, TCLP LEACHED</b>		Method: EPA-1311/8081A-Rev 1, Dec-96			Analyst: SP		
Chlordane	ND	0.0050		mg/L	1	03/22/2021 2:34 PM	72334
Endrin	ND	0.00050		mg/L	1	03/22/2021 2:34 PM	72334
gamma-BHC	ND	0.00025		mg/L	1	03/22/2021 2:34 PM	72334
Heptachlor	ND	0.00025		mg/L	1	03/22/2021 2:34 PM	72334
Heptachlor epoxide	ND	0.00025		mg/L	1	03/22/2021 2:34 PM	72334
Methoxychlor	ND	0.0025		mg/L	1	03/22/2021 2:34 PM	72334
Toxaphene	ND	0.010		mg/L	1	03/22/2021 2:34 PM	72334



# Suburban Laboratories, Inc.

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## Laboratory Results

Client ID: INTERRA, Inc.

Report Date: March 23, 2021

Project Name: 75th St CIP

Workorder: 2103B63

Client Sample ID: Disp 3

Matrix: SOIL

Lab ID: 2103B63-009

Date Received: 03/11/2021 10:32 AM

Collection Date: 03/10/2021 9:35 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>PESTICIDES, TCLP LEACHED</b>		Method: EPA-1311/8081A-Rev 1, Dec-96		Analyst: SP			
<u>Internal Quality Control Compounds</u>							
SS: Tetrachloro-m-xylene	55.2	21-128		%Rec	1	03/22/2021 2:34 PM	72334
<b>VOLATILES, TCLP LEACHED</b>		Method: EPA-1311/8260B-Rev 2, Dec-96		Analyst: RWM			
1,1-Dichloroethene	ND	0.100		mg/L	100	03/17/2021 3:10 PM	72207
1,2-Dichloroethane	ND	0.100		mg/L	100	03/17/2021 3:10 PM	72207
2-Butanone	ND	0.500		mg/L	100	03/17/2021 3:10 PM	72207
Benzene	ND	0.100		mg/L	100	03/17/2021 3:10 PM	72207
Carbon tetrachloride	ND	0.100		mg/L	100	03/17/2021 3:10 PM	72207
Chlorobenzene	ND	0.100		mg/L	100	03/17/2021 3:10 PM	72207
Chloroform	ND	0.100		mg/L	100	03/17/2021 3:10 PM	72207
Tetrachloroethene	ND	0.100		mg/L	100	03/17/2021 3:10 PM	72207
Trichloroethene	ND	0.100		mg/L	100	03/17/2021 3:10 PM	72207
Vinyl chloride	ND	0.100		mg/L	100	03/17/2021 3:10 PM	72207
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	108	70-130		%Rec	100	03/17/2021 3:10 PM	72207
SS: Dibromofluoromethane	96.0	70-130		%Rec	100	03/17/2021 3:10 PM	72207
SS: Toluene-d8	93.5	70-130		%Rec	100	03/17/2021 3:10 PM	72207
<b>PCBS</b>		Method: EPA-8082-Rev 0, Dec-96		Analyst: PSP			
Aroclor 1016	ND	0.0187		mg/Kg-dry	1	03/18/2021 1:53 AM	72154
Aroclor 1221	ND	0.0187		mg/Kg-dry	1	03/18/2021 1:53 AM	72154
Aroclor 1232	ND	0.0187		mg/Kg-dry	1	03/18/2021 1:53 AM	72154
Aroclor 1242	ND	0.0187		mg/Kg-dry	1	03/18/2021 1:53 AM	72154
Aroclor 1248	ND	0.0187		mg/Kg-dry	1	03/18/2021 1:53 AM	72154
Aroclor 1254	ND	0.0187		mg/Kg-dry	1	03/18/2021 1:53 AM	72154
Aroclor 1260	ND	0.0187		mg/Kg-dry	1	03/18/2021 1:53 AM	72154
<u>Internal Quality Control Compounds</u>							
SS: Tetrachloro-m-xylene	51.6	33.7-156		%Rec	1	03/18/2021 1:53 AM	72154
<b>CYANIDE, REACTIVE</b>		Method: EPA-SW7.3.3.2-Rev SW7.3.3.2		Analyst: kjs			
Reactive Cyanide	ND	1.2		mg/Kg-dry	1	03/16/2021 12:00 AM	R131070
<b>FLASH POINT, OPEN CUP</b>		Method: ASTM-D92-Rev 2002b		Analyst: AD			
Flash Point	>212	0	c	°F	1	03/17/2021 9:56 AM	R130905
<b>MERCURY BY CVAA, TCLP</b>		Method: EPA-1311/7470A-Rev 1, Sep-94		Analyst: MTS			



# Suburban Laboratories, Inc.

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## Laboratory Results

Client ID: INTERRA, Inc.

Report Date: March 23, 2021

Project Name: 75th St CIP

Workorder: 2103B63

Client Sample ID: Disp 3

Matrix: SOIL

Lab ID: 2103B63-009

Date Received: 03/11/2021 10:32 AM

Collection Date: 03/10/2021 9:35 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>MERCURY BY CVAA, TCLP</b>		Method: EPA-1311/7470A-Rev 1, Sep-94		Analyst: MTS			
Mercury	0.0004	0.0002	J	mg/L	1	03/18/2021 1:38 PM	72255
<b>PAINT FILTER</b>		Method: EPA-9095A-Rev 1, Dec-96		Analyst: AD			
Free Liquids	PASS	0	c	Pass/Fail	1	03/17/2021 9:56 AM	R130905
<b>PH (IN LABORATORY) &lt;ATC&gt;</b>		Method: EPA-9045C-Rev 3, Jan-95		Analyst: AD			
pH	7.81	1.00		pH Units	1	03/15/2021 12:27 PM	R130828
<b>PHENOLICS</b>		Method: EPA-9065-Rev 0, Sep-86		Analyst: STP			
Phenolics, Total Recoverable	ND	0.304	c	mg/kg-dry	50	03/16/2021 1:05 PM	R130869
<b>PERCENT MOISTURE</b>		Method: ASTM-D2216-Rev 2005		Analyst: ALB			
Percent Moisture	18	1.0	c	wt%	1	03/11/2021 3:56 PM	R130693
<b>SULFIDE, REACTIVE</b>		Method: EPA-SW7.3.4.2-Rev SW7.3.4.2		Analyst: kjs			
Reactive Sulfide	ND	12.2		mg/Kg-dry	1	03/12/2021 12:00 AM	R131070
<b>HERBICIDES, TCLP LEACHED (SUBCONTRACTED)</b>		Method:		Analyst: kjs			
Silvex {Z}	ND	0.0010			1	03/19/2021 12:00 AM	R131070
2,4-D	ND	0.0020			1	03/19/2021 12:00 AM	R131070



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

## Laboratory Results

Client ID: INTERRA, Inc.

Report Date: March 23, 2021

Project Name: 75th St CIP

Workorder: 2103B63

Client Sample ID: Disp 4

Matrix: SOIL

Lab ID: 2103B63-012

Date Received: 03/11/2021 10:32 AM

Collection Date: 03/10/2021 9:20 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>SEMIVOLATILES, TCLP LEACHED</b>		Method: EPA-1311/8270C-Rev 3, Dec-96			Analyst: ES		
1,4-Dichlorobenzene	ND	0.100		mg/L	1	03/18/2021 5:51 PM	72193
2,4,5-Trichlorophenol	ND	0.100		mg/L	1	03/18/2021 5:51 PM	72193
2,4,6-Trichlorophenol	ND	0.100		mg/L	1	03/18/2021 5:51 PM	72193
2,4-Dinitrotoluene	ND	0.100		mg/L	1	03/18/2021 5:51 PM	72193
Hexachlorobenzene	ND	0.100		mg/L	1	03/18/2021 5:51 PM	72193
Hexachlorobutadiene	ND	0.100		mg/L	1	03/18/2021 5:51 PM	72193
Hexachloroethane	ND	0.100		mg/L	1	03/18/2021 5:51 PM	72193
m,p-Cresol	ND	0.100		mg/L	1	03/18/2021 5:51 PM	72193
Nitrobenzene	ND	0.100		mg/L	1	03/18/2021 5:51 PM	72193
O-Cresol	ND	0.100		mg/L	1	03/18/2021 5:51 PM	72193
Pentachlorophenol	ND	0.100		mg/L	1	03/18/2021 5:51 PM	72193
Pyridine	ND	0.100		mg/L	1	03/18/2021 5:51 PM	72193
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	33.3	10-190		%Rec	1	03/18/2021 5:51 PM	72193
SS: 2-Fluorobiphenyl	62.8	37.7-110		%Rec	1	03/18/2021 5:51 PM	72193
SS: 2-Fluorophenol	18.1	11.1-127		%Rec	1	03/18/2021 5:51 PM	72193
SS: Nitrobenzene-d5	73.6	27.2-110		%Rec	1	03/18/2021 5:51 PM	72193
SS: Phenol-d6	24.5	9.97-133		%Rec	1	03/18/2021 5:51 PM	72193
<b>METALS BY ICP, TCLP LEACHED</b>		Method: EPA-1311/6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	ND	0.010		mg/L	1	03/18/2021 2:34 PM	72265
Barium	0.99	0.25		mg/L	1	03/18/2021 2:34 PM	72265
Cadmium	0.0013	0.0010		mg/L	1	03/18/2021 2:34 PM	72265
Chromium	ND	0.025		mg/L	1	03/18/2021 2:34 PM	72265
Lead	0.015	0.0050		mg/L	1	03/18/2021 2:34 PM	72265
Selenium	ND	0.025		mg/L	1	03/18/2021 2:34 PM	72265
Silver	ND	0.025		mg/L	1	03/18/2021 2:34 PM	72265
<b>PESTICIDES, TCLP LEACHED</b>		Method: EPA-1311/8081A-Rev 1, Dec-96			Analyst: SP		
Chlordane	ND	0.0050		mg/L	1	03/19/2021 5:32 PM	72234
Endrin	ND	0.00050		mg/L	1	03/19/2021 5:32 PM	72234
gamma-BHC	ND	0.00025		mg/L	1	03/19/2021 5:32 PM	72234
Heptachlor	ND	0.00025		mg/L	1	03/19/2021 5:32 PM	72234
Heptachlor epoxide	ND	0.00025		mg/L	1	03/19/2021 5:32 PM	72234
Methoxychlor	ND	0.0025		mg/L	1	03/19/2021 5:32 PM	72234
Toxaphene	ND	0.010		mg/L	1	03/19/2021 5:32 PM	72234



# Suburban Laboratories, Inc.

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## Laboratory Results

Client ID: INTERRA, Inc.

Report Date: March 23, 2021

Project Name: 75th St CIP

Workorder: 2103B63

Client Sample ID: Disp 4

Matrix: SOIL

Lab ID: 2103B63-012

Date Received: 03/11/2021 10:32 AM

Collection Date: 03/10/2021 9:20 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>PESTICIDES, TCLP LEACHED</b>		Method: EPA-1311/8081A-Rev 1, Dec-96		Analyst: SP			
<u>Internal Quality Control Compounds</u>							
SS: Tetrachloro-m-xylene	67.2	21-128		%Rec	1	03/19/2021 5:32 PM	72234
<b>VOLATILES, TCLP LEACHED</b>		Method: EPA-1311/8260B-Rev 2, Dec-96		Analyst: RWM			
1,1-Dichloroethene	ND	0.100		mg/L	100	03/17/2021 3:35 PM	72207
1,2-Dichloroethane	ND	0.100		mg/L	100	03/17/2021 3:35 PM	72207
2-Butanone	ND	0.500		mg/L	100	03/17/2021 3:35 PM	72207
Benzene	ND	0.100		mg/L	100	03/17/2021 3:35 PM	72207
Carbon tetrachloride	ND	0.100		mg/L	100	03/17/2021 3:35 PM	72207
Chlorobenzene	ND	0.100		mg/L	100	03/17/2021 3:35 PM	72207
Chloroform	ND	0.100		mg/L	100	03/17/2021 3:35 PM	72207
Tetrachloroethene	ND	0.100		mg/L	100	03/17/2021 3:35 PM	72207
Trichloroethene	ND	0.100		mg/L	100	03/17/2021 3:35 PM	72207
Vinyl chloride	ND	0.100		mg/L	100	03/17/2021 3:35 PM	72207
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	107	70-130		%Rec	100	03/17/2021 3:35 PM	72207
SS: Dibromofluoromethane	96.4	70-130		%Rec	100	03/17/2021 3:35 PM	72207
SS: Toluene-d8	93.8	70-130		%Rec	100	03/17/2021 3:35 PM	72207
<b>PCBS</b>		Method: EPA-8082-Rev 0, Dec-96		Analyst: PSP			
Aroclor 1016	ND	0.0179		mg/Kg-dry	1	03/18/2021 2:17 AM	72154
Aroclor 1221	ND	0.0179		mg/Kg-dry	1	03/18/2021 2:17 AM	72154
Aroclor 1232	ND	0.0179		mg/Kg-dry	1	03/18/2021 2:17 AM	72154
Aroclor 1242	ND	0.0179		mg/Kg-dry	1	03/18/2021 2:17 AM	72154
Aroclor 1248	ND	0.0179		mg/Kg-dry	1	03/18/2021 2:17 AM	72154
Aroclor 1254	ND	0.0179		mg/Kg-dry	1	03/18/2021 2:17 AM	72154
Aroclor 1260	ND	0.0179		mg/Kg-dry	1	03/18/2021 2:17 AM	72154
<u>Internal Quality Control Compounds</u>							
SS: Tetrachloro-m-xylene	59.1	33.7-156		%Rec	1	03/18/2021 2:17 AM	72154
<b>CYANIDE, REACTIVE</b>		Method: EPA-SW7.3.3.2-Rev SW7.3.3.2		Analyst: kjs			
Reactive Cyanide	ND	1.1		mg/Kg-dry	1	03/16/2021 12:00 AM	R131070
<b>FLASH POINT, OPEN CUP</b>		Method: ASTM-D92-Rev 2002b		Analyst: AD			
Flash Point	>212	0	c	°F	1	03/17/2021 9:56 AM	R130905
<b>MERCURY BY CVAA, TCLP</b>		Method: EPA-1311/7470A-Rev 1, Sep-94		Analyst: MTS			



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

## Laboratory Results

Client ID: INTERRA, Inc.

Report Date: March 23, 2021

Project Name: 75th St CIP

Workorder: 2103B63

Client Sample ID: Disp 4

Matrix: SOIL

Lab ID: 2103B63-012

Date Received: 03/11/2021 10:32 AM

Collection Date: 03/10/2021 9:20 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>MERCURY BY CVAA, TCLP</b>		Method: EPA-1311/7470A-Rev 1, Sep-94			Analyst: MTS		
Mercury	ND	0.0002		mg/L	1	03/17/2021 2:18 PM	72212
<b>PAINT FILTER</b>		Method: EPA-9095A-Rev 1, Dec-96			Analyst: AD		
Free Liquids	PASS	0	c	Pass/Fail	1	03/17/2021 9:56 AM	R130905
<b>PH (IN LABORATORY) &lt;ATC&gt;</b>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	8.10	1.00		pH Units	1	03/15/2021 12:31 PM	R130828
<b>PHENOLICS</b>		Method: EPA-9065-Rev 0, Sep-86			Analyst: STP		
Phenolics, Total Recoverable	ND	0.281	c	mg/kg-dry	50	03/16/2021 1:05 PM	R130869
<b>PERCENT MOISTURE</b>		Method: ASTM-D2216-Rev 2005			Analyst: ALB		
Percent Moisture	11	1.0	c	wt%	1	03/11/2021 3:56 PM	R130693
<b>SULFIDE, REACTIVE</b>		Method: EPA-SW7.3.4.2-Rev SW7.3.4.2			Analyst: kjs		
Reactive Sulfide	ND	11.2		mg/Kg-dry	1	03/12/2021 12:00 AM	R131070
<b>HERBICIDES, TCLP LEACHED (SUBCONTRACTED)</b>		Method:			Analyst: kjs		
Silvex {Z}	ND	0.0010			1	03/19/2021 12:00 AM	R131070
2,4-D	ND	0.0020			1	03/19/2021 12:00 AM	R131070



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

## Laboratory Results

Client ID: INTERRA, Inc.

Report Date: March 23, 2021

Project Name: 75th St CIP

Workorder: 2103B63

Client Sample ID: Disp 5

Matrix: SOIL

Lab ID: 2103B63-015

Date Received: 03/11/2021 10:32 AM

Collection Date: 03/10/2021 8:50 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>SEMIVOLATILES, TCLP LEACHED</b>		Method: EPA-1311/8270C-Rev 3, Dec-96			Analyst: ES		
1,4-Dichlorobenzene	ND	0.100		mg/L	1	03/18/2021 7:10 PM	72193
2,4,5-Trichlorophenol	ND	0.100		mg/L	1	03/18/2021 7:10 PM	72193
2,4,6-Trichlorophenol	ND	0.100		mg/L	1	03/18/2021 7:10 PM	72193
2,4-Dinitrotoluene	ND	0.100		mg/L	1	03/18/2021 7:10 PM	72193
Hexachlorobenzene	ND	0.100		mg/L	1	03/18/2021 7:10 PM	72193
Hexachlorobutadiene	ND	0.100		mg/L	1	03/18/2021 7:10 PM	72193
Hexachloroethane	ND	0.100		mg/L	1	03/18/2021 7:10 PM	72193
m,p-Cresol	ND	0.100		mg/L	1	03/18/2021 7:10 PM	72193
Nitrobenzene	ND	0.100		mg/L	1	03/18/2021 7:10 PM	72193
O-Cresol	ND	0.100		mg/L	1	03/18/2021 7:10 PM	72193
Pentachlorophenol	ND	0.100		mg/L	1	03/18/2021 7:10 PM	72193
Pyridine	ND	0.100		mg/L	1	03/18/2021 7:10 PM	72193
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	17.7	10-190		%Rec	1	03/18/2021 7:10 PM	72193
SS: 2-Fluorobiphenyl	72.9	37.7-110		%Rec	1	03/18/2021 7:10 PM	72193
SS: 2-Fluorophenol	13.3	11.1-127		%Rec	1	03/18/2021 7:10 PM	72193
SS: Nitrobenzene-d5	79.7	27.2-110		%Rec	1	03/18/2021 7:10 PM	72193
SS: Phenol-d6	22.5	9.97-133		%Rec	1	03/18/2021 7:10 PM	72193
<b>METALS BY ICP, TCLP LEACHED</b>		Method: EPA-1311/6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	ND	0.010		mg/L	1	03/18/2021 2:50 PM	72265
Barium	0.40	0.25		mg/L	1	03/18/2021 2:50 PM	72265
Cadmium	0.0011	0.0010		mg/L	1	03/18/2021 2:50 PM	72265
Chromium	0.035	0.025		mg/L	1	03/18/2021 2:50 PM	72265
Lead	0.065	0.0050		mg/L	1	03/18/2021 2:50 PM	72265
Selenium	ND	0.025		mg/L	1	03/18/2021 2:50 PM	72265
Silver	ND	0.025		mg/L	1	03/18/2021 2:50 PM	72265
<b>PESTICIDES, TCLP LEACHED</b>		Method: EPA-1311/8081A-Rev 1, Dec-96			Analyst: SP		
Chlordane	ND	0.0050		mg/L	1	03/19/2021 6:22 PM	72234
Endrin	ND	0.00050		mg/L	1	03/19/2021 6:22 PM	72234
gamma-BHC	ND	0.00025		mg/L	1	03/19/2021 6:22 PM	72234
Heptachlor	ND	0.00025		mg/L	1	03/19/2021 6:22 PM	72234
Heptachlor epoxide	ND	0.00025		mg/L	1	03/19/2021 6:22 PM	72234
Methoxychlor	ND	0.0025		mg/L	1	03/19/2021 6:22 PM	72234
Toxaphene	ND	0.010		mg/L	1	03/19/2021 6:22 PM	72234



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

## Laboratory Results

Client ID: INTERRA, Inc.

Report Date: March 23, 2021

Project Name: 75th St CIP

Workorder: 2103B63

Client Sample ID: Disp 5

Matrix: SOIL

Lab ID: 2103B63-015

Date Received: 03/11/2021 10:32 AM

Collection Date: 03/10/2021 8:50 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>PESTICIDES, TCLP LEACHED</b>		Method: EPA-1311/8081A-Rev 1, Dec-96			Analyst: SP		
<u>Internal Quality Control Compounds</u>							
SS: Tetrachloro-m-xylene	62.7	21-128		%Rec	1	03/19/2021 6:22 PM	72234
<b>VOLATILES, TCLP LEACHED</b>		Method: EPA-1311/8260B-Rev 2, Dec-96			Analyst: RWM		
1,1-Dichloroethene	ND	0.100		mg/L	100	03/17/2021 4:01 PM	72207
1,2-Dichloroethane	ND	0.100		mg/L	100	03/17/2021 4:01 PM	72207
2-Butanone	ND	0.500		mg/L	100	03/17/2021 4:01 PM	72207
Benzene	ND	0.100		mg/L	100	03/17/2021 4:01 PM	72207
Carbon tetrachloride	ND	0.100		mg/L	100	03/17/2021 4:01 PM	72207
Chlorobenzene	ND	0.100		mg/L	100	03/17/2021 4:01 PM	72207
Chloroform	ND	0.100		mg/L	100	03/17/2021 4:01 PM	72207
Tetrachloroethene	ND	0.100		mg/L	100	03/17/2021 4:01 PM	72207
Trichloroethene	ND	0.100		mg/L	100	03/17/2021 4:01 PM	72207
Vinyl chloride	ND	0.100		mg/L	100	03/17/2021 4:01 PM	72207
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	108	70-130		%Rec	100	03/17/2021 4:01 PM	72207
SS: Dibromofluoromethane	96.9	70-130		%Rec	100	03/17/2021 4:01 PM	72207
SS: Toluene-d8	93.6	70-130		%Rec	100	03/17/2021 4:01 PM	72207
<b>PCBS</b>		Method: EPA-8082-Rev 0, Dec-96			Analyst: PSP		
Aroclor 1016	ND	0.0205		mg/Kg-dry	1	03/18/2021 2:42 AM	72154
Aroclor 1221	ND	0.0205		mg/Kg-dry	1	03/18/2021 2:42 AM	72154
Aroclor 1232	ND	0.0205		mg/Kg-dry	1	03/18/2021 2:42 AM	72154
Aroclor 1242	ND	0.0205		mg/Kg-dry	1	03/18/2021 2:42 AM	72154
Aroclor 1248	ND	0.0205		mg/Kg-dry	1	03/18/2021 2:42 AM	72154
Aroclor 1254	ND	0.0205		mg/Kg-dry	1	03/18/2021 2:42 AM	72154
Aroclor 1260	ND	0.0205		mg/Kg-dry	1	03/18/2021 2:42 AM	72154
<u>Internal Quality Control Compounds</u>							
SS: Tetrachloro-m-xylene	54.9	33.7-156		%Rec	1	03/18/2021 2:42 AM	72154
<b>CYANIDE, REACTIVE</b>		Method: EPA-SW7.3.3.2-Rev SW7.3.3.2			Analyst: kjs		
Reactive Cyanide	ND	1.3		mg/Kg-dry	1	03/16/2021 12:00 AM	R131070
<b>FLASH POINT, OPEN CUP</b>		Method: ASTM-D92-Rev 2002b			Analyst: AD		
Flash Point	>212	0	c	°F	1	03/17/2021 9:56 AM	R130905
<b>MERCURY BY CVAA, TCLP</b>		Method: EPA-1311/7470A-Rev 1, Sep-94			Analyst: MTS		



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

## Laboratory Results

Client ID: INTERRA, Inc.

Report Date: March 23, 2021

Project Name: 75th St CIP

Workorder: 2103B63

Client Sample ID: Disp 5

Matrix: SOIL

Lab ID: 2103B63-015

Date Received: 03/11/2021 10:32 AM

Collection Date: 03/10/2021 8:50 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>MERCURY BY CVAA, TCLP</b>		Method: EPA-1311/7470A-Rev 1, Sep-94			Analyst: MTS		
Mercury	ND	0.0002		mg/L	1	03/17/2021 2:31 PM	72212
<b>PAINT FILTER</b>		Method: EPA-9095A-Rev 1, Dec-96			Analyst: AD		
Free Liquids	PASS	0	c	Pass/Fail	1	03/17/2021 9:56 AM	R130905
<b>PH (IN LABORATORY) &lt;ATC&gt;</b>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: AD		
pH	7.57	1.00		pH Units	1	03/15/2021 12:33 PM	R130828
<b>PHENOLICS</b>		Method: EPA-9065-Rev 0, Sep-86			Analyst: STP		
Phenolics, Total Recoverable	ND	0.320	c	mg/kg-dry	50	03/16/2021 1:05 PM	R130869
<b>PERCENT MOISTURE</b>		Method: ASTM-D2216-Rev 2005			Analyst: ALB		
Percent Moisture	22	1.0	c	wt%	1	03/16/2021 4:23 PM	R130890
<b>SULFIDE, REACTIVE</b>		Method: EPA-SW7.3.4.2-Rev SW7.3.4.2			Analyst: kjs		
Reactive Sulfide	ND	12.8		mg/Kg-dry	1	03/12/2021 12:00 AM	R131070
<b>HERBICIDES, TCLP LEACHED (SUBCONTRACTED)</b>		Method:			Analyst: kjs		
Silvex {Z}	ND	0.0010			1	03/19/2021 12:00 AM	R131070
2,4-D	ND	0.0020			1	03/19/2021 12:00 AM	R131070



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

## PREP DATES REPORT

**Client:** INTERRA, Inc.  
**Project:** 75th St CIP

**Report Date:** March 23, 2021  
**Lab Order:** 2103B63

Sample ID	Collection Date	Batch ID	Prep Test Name	TCLP Date	Prep Date
2103B63-003A	3/9/2021 1:15:00 PM	72265	AQUEOUS PREP TOTAL METALS: ICP		3/17/2021
		72212	MERCURY PREP for TCLP / SPLP		3/17/2021
		72154	SOLID PREP SONICATION: PCB		3/15/2021
		72234	TCLP AQ. PREP SEP FUNNEL: Pest		3/17/2021
		72193	TCLP AQ. PREP SEP FUNNEL: BNA		3/16/2021
		72179	TCLP SAMPLE PREP ZHE (VOCS)		3/15/2021
		72156	TCLP SAMPLE PREP (Metals)		3/15/2021
		72157	TCLP SAMPLE PREP (Organics)		3/15/2021
2103B63-006A	3/9/2021 12:45:00 PM	72265	AQUEOUS PREP TOTAL METALS: ICP		3/17/2021
		72212	MERCURY PREP for TCLP / SPLP		3/17/2021
		72154	SOLID PREP SONICATION: PCB		3/15/2021
		72234	TCLP AQ. PREP SEP FUNNEL: Pest		3/17/2021
		72193	TCLP AQ. PREP SEP FUNNEL: BNA		3/16/2021
		72179	TCLP SAMPLE PREP ZHE (VOCS)		3/15/2021
		72156	TCLP SAMPLE PREP (Metals)		3/15/2021
		72157	TCLP SAMPLE PREP (Organics)		3/15/2021
2103B63-009A	3/10/2021 9:35:00 AM	72266	AQUEOUS PREP TOTAL METALS: ICP		3/17/2021
		72255	MERCURY PREP for TCLP / SPLP		3/18/2021
		72154	SOLID PREP SONICATION: PCB		3/15/2021
		72334	TCLP AQ. PREP SEP FUNNEL: Pest		3/22/2021
		72287	TCLP AQ. PREP SEP FUNNEL: BNA		3/18/2021
		72207	TCLP SAMPLE PREP ZHE (VOCS)		3/16/2021
		72202	TCLP SAMPLE PREP (Metals)		3/16/2021
		72203	TCLP SAMPLE PREP (Organics)		3/16/2021
2103B63-012A	3/10/2021 9:20:00 AM	72265	AQUEOUS PREP TOTAL METALS: ICP		3/17/2021
		72212	MERCURY PREP for TCLP / SPLP		3/17/2021
		72154	SOLID PREP SONICATION: PCB		3/15/2021
		72234	TCLP AQ. PREP SEP FUNNEL: Pest		3/17/2021



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

## PREP DATES REPORT

**Client:** INTERRA, Inc.  
**Project:** 75th St CIP

**Report Date:** March 23, 2021  
**Lab Order:** 2103B63

Sample ID	Collection Date	Batch ID	Prep Test Name	TCLP Date	Prep Date
2103B63-012A	3/10/2021 9:20:00 AM	72193	TCLP AQ. PREP SEP FUNNEL: BNA		3/16/2021
		72207	TCLP SAMPLE PREP ZHE (VOCS)		3/16/2021
		72156	TCLP SAMPLE PREP (Metals)		3/15/2021
		72157	TCLP SAMPLE PREP (Organics)		3/15/2021
2103B63-013A	3/10/2021 8:45:00 AM	72212	MERCURY PREP for TCLP / SPLP		3/17/2021
2103B63-015A	3/10/2021 8:50:00 AM	72265	AQUEOUS PREP TOTAL METALS: ICP		3/17/2021
		72212	MERCURY PREP for TCLP / SPLP		3/17/2021
		72154	SOLID PREP SONICATION: PCB		3/15/2021
		72234	TCLP AQ. PREP SEP FUNNEL: Pest		3/17/2021
		72193	TCLP AQ. PREP SEP FUNNEL: BNA		3/16/2021
		72207	TCLP SAMPLE PREP ZHE (VOCS)		3/16/2021
		72156	TCLP SAMPLE PREP (Metals)		3/15/2021
		72157	TCLP SAMPLE PREP (Organics)		3/15/2021



---

**Qualifiers:**

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
C	Value is below Minimum Concentration Limit
c	Analyte not in SLI scope of accreditation
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
P	Present
Q	Accreditation is not available from Wisconsin
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
T	Analyte detected in sample trip blank
V	EPA requires field analysis/filtration. Lab analysis would be considered past hold time.



**SUBURBAN LABORATORIES, Inc.**  
1950 S. Batavia Ave. Ste. 150 Geneva, IL 60134

Tel. 708.544.3260

login@suburbanlabs.com

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**CHAIN OF CUSTODY RECORD**

Company Name: Interra Services  
 Company Address: 600 Territorial Dr  
 City: Bolingbrook State: IL Zip: \_\_\_\_\_  
 Office: \_\_\_\_\_ Mobile: \_\_\_\_\_ Fax: \_\_\_\_\_

Email Address: esilver@interra-services.com  
 Project ID / Location: 75th Street CIP  
 Project Manager (Report to): Eric Skasser, ASHOK GUNDEKAR  
 Sample Collector(s): Patrick Lunt

TURNAROUND TIME REQUESTED  
 Normal  RUSH\*  
 \* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.  
 Date and Time Report Needed: \_\_\_\_\_  
 Specify Regulatory Program:  None/Info Only  
 LUST  SRP  SDWA  
 503 Sludge  NPDES  MWR/DGC  
 Disposal  CCDD  OTHER - Specify Below

ANALYSIS & METHOD REQUESTED  
 Enter an "X" in box below for request  
 \* 2 99

Page 42 of 42  
 PO # \_\_\_\_\_  
 Report Type:  Normal  Special\*  
 \* Additional charges apply for QC Reports and raw data. Specify in comments section  
 Shipping Method: \_\_\_\_\_  
 LAB USE ONLY  
 Work Order #: 2103 B63  
 Temperature of Received Samples: 5 °C  
 Received within 24 hours of collection?  No  Yes  
 Lab Comment: \_\_\_\_\_ LAB #: \_\_\_\_\_

SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION		MATRIX	GRAB/COMP.	CONTAINERS QTY SIZE & TYPE	PRESERVATIVE	ANALYSIS & METHOD REQUESTED	Page # of # of
	DATE	TIME						
1 DISP-3A	3/10/21	930	S	G	1 32 oz Jar		X	74B
2 DISP-3B		925		G			X	18
3 DISP-3		935		C			X	19
4 DISP-4A		905		G			X	10
5 DISP-4B		915		G			X	11
6 DISP-4		920		C			X	12
7 DISP-4A		845		G			X	13
8 DISP-5B		835		G			X	14
9 DISP-5		850		C			X	15AB
10								
11								
12								

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml, 100ml, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H<sub>2</sub>SO<sub>4</sub>, HCl, HNO<sub>3</sub>, Methanol (MeOH), NaOH, Sodium Bisulfite (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:  
 \* Please see attached  
 Interra Project #: 8824  
 CDOT Project #: S-0-435

1. Requisitioned By: AMN Date: 3/10/21  
 2. Requisitioned By: AMN Date: 3/11/21  
 3. Requisitioned By: \_\_\_\_\_ Date: \_\_\_\_\_  
 4. Requisitioned By: \_\_\_\_\_ Date: \_\_\_\_\_

Received By: AMN Time: 9:15  Ice  
 Received By: AMN Time: 10:32  Ice  
 Received By: \_\_\_\_\_ Time: \_\_\_\_\_  Ice  
 Received By: \_\_\_\_\_ Time: \_\_\_\_\_  Ice

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.



**SUBURBAN LABORATORIES, Inc.**  
 1950 S. Batavia Ave. Ste. 150 Geneva, IL 60134

Tel. 708.544.3260

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**CHAIN OF CUSTODY RECORD**

Company Name: **Interra Services**

Company Address: **600 Territorial Dr**

City: **Bolingbrook** State: **IL** Zip: **60416**

Office: **630-684-8700** Mobile: Fax:

Email Address: **esiverson@interra-services.com**

Project ID / Location: **75th St. CIP**

Project Manager (Report to): **eric siverson; Ashok Guntake**

Sample Collector(s): **Patrick Lunt**

TURNAROUND TIME REQUESTED  
 Normal  RUSH\*

\* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.  
 Date and Time Report Needed:

Specify Regulatory Program:  
 LUST  SRP  SDWA  
 503 Sludge  NPDES  MWRDGC  
 Disposal  CCDD  OTHER - Specify Below

ANALYSIS & METHOD REQUESTED  
 Enter an "X" in box below for request

Page **1** of **2**  
 PO # **12**

Report Type:  Normal  Special\*  
 \* Additional charges apply for QC reports and raw data. Specify in comments section

Shipping Method: **LAB USE ONLY**

Work Order # **2103863**

Temperature of Received Samples: **5** °C

Received within 24 hours of collection?  No  Yes

SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION		MATRIX	GRAB/COMP.	CONTAINERS QTY	SIZE & TYPE	PRESERVATIVE	ANALYSIS & METHOD REQUESTED	Page
	DATE	TIME							
1 DISP-1A	3/9/21	1005	S	6	1	3.2 oz			X
2 DISP-1B		1005		↓					X
3 DISP-1		115		C					X
4 DISP-2A		1230		G					X
5 DISP-2B		1240		↓					X
6 DISP-2		1245		C					X
7									
8									
9									
10									
11									
12									

COMMENTS & SPECIAL INSTRUCTIONS:

\* See attached list  
 COT Project #: S-0-935  
 Interra Project #: 8824

1. Relinquished By: **[Signature]**

Date: **3/11/21**

2. Relinquished By: **[Signature]**

Date: **3/11/21**

3. Relinquished By:

Date:

4. Relinquished By:

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

# SUBURBAN LABORATORIES, Inc.



1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134  
Tel. (708) 544-3260 • Toll Free (800) 783-LABS  
Fax (708) 544-8587  
www.suburbanlabs.com

August 28, 2020

Ashok Guntaka  
INTERRA, Inc.  
600 Territorial Drive, Suite G  
Bolingbrook, IL 60440

**Workorder: 2008I19**

TEL: (630) 754-8700  
FAX: (630) 754-8705  
RE: Cherry Ave

Dear Ashok Guntaka:

Suburban Laboratories, Inc. received 6 sample(s) on 8/20/2020 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Keith Sinon  
Project Manager  
708-544-3260 ext 212  
keith@suburbanlabs.com





**Client:** INTERRA, Inc.

**Date:** August 28, 2020

**Project:** Cherry Ave

**PO #:**

**WorkOrder:** 2008I19

**QC Level:**

**Temperature of samples upon receipt at SLI:** 9 C

**Chain of Custody #:**

**General Comments:**

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

**Abbreviations:**

- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

**Method References:**

For a complete list of method references please contact us.

- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

**Workorder Specific Comments:**

G = Samples subcontracted to STAT Analysis Corp. (IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP Lab Code 101202) , for some of the analysis requested.

**1311\_ICP2:**

Sample 2008I19-006A: S=For Lead, the MS percent recovery (69.1%) was outside laboratory control limits (70% - 130%).



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

# Laboratory Results

Client ID: INTERRA, Inc.

Report Date: August 28, 2020

Project Name: Cherry Ave

Workorder: 2008I19

Client Sample ID: Cherry Comp

Matrix: SOIL

Lab ID: 2008I19-006

Date Received: 08/20/2020 3:51 PM

Collection Date: 08/20/2020 10:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>SEMIVOLATILES, TCLP LEACHED</b>		Method: EPA-1311/8270C-Rev 3, Dec-96			Analyst: ES		
1,4-Dichlorobenzene	ND	0.100		mg/L	1	08/24/2020 5:53 PM	68077
2,4,5-Trichlorophenol	ND	0.100		mg/L	1	08/24/2020 5:53 PM	68077
2,4,6-Trichlorophenol	ND	0.100		mg/L	1	08/24/2020 5:53 PM	68077
2,4-Dinitrotoluene	ND	0.100		mg/L	1	08/24/2020 5:53 PM	68077
Hexachlorobenzene	ND	0.100		mg/L	1	08/24/2020 5:53 PM	68077
Hexachlorobutadiene	ND	0.100		mg/L	1	08/24/2020 5:53 PM	68077
Hexachloroethane	ND	0.100		mg/L	1	08/24/2020 5:53 PM	68077
m,p-Cresol	ND	0.100		mg/L	1	08/24/2020 5:53 PM	68077
Nitrobenzene	ND	0.100		mg/L	1	08/24/2020 5:53 PM	68077
O-Cresol	ND	0.100		mg/L	1	08/24/2020 5:53 PM	68077
Pentachlorophenol	ND	0.100		mg/L	1	08/24/2020 5:53 PM	68077
Pyridine	ND	0.100		mg/L	1	08/24/2020 5:53 PM	68077
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	42.8	10-190		%Rec	1	08/24/2020 5:53 PM	68077
SS: 2-Fluorobiphenyl	72.4	37.7-110		%Rec	1	08/24/2020 5:53 PM	68077
SS: 2-Fluorophenol	33.3	11.1-127		%Rec	1	08/24/2020 5:53 PM	68077
SS: Nitrobenzene-d5	78.6	27.2-110		%Rec	1	08/24/2020 5:53 PM	68077
SS: Phenol-d6	48.7	9.97-133		%Rec	1	08/24/2020 5:53 PM	68077
<b>METALS BY ICP, TCLP LEACHED</b>		Method: EPA-1311/6010B-Rev 2, Dec-96			Analyst: SCT		
Arsenic	ND	0.010		mg/L	1	08/27/2020 3:30 PM	68100
Barium	0.35	0.25		mg/L	1	08/28/2020 6:22 PM	68100
Cadmium	0.0021	0.0010		mg/L	1	08/27/2020 3:30 PM	68100
Chromium	ND	0.025		mg/L	1	08/27/2020 3:30 PM	68100
Lead	ND	0.0050	S	mg/L	1	08/27/2020 3:30 PM	68100
Selenium	ND	0.025		mg/L	1	08/27/2020 3:30 PM	68100
Silver	ND	0.025		mg/L	1	08/27/2020 3:30 PM	68100
<b>PESTICIDES, TCLP LEACHED</b>		Method: EPA-1311/8081A-Rev 1, Dec-96			Analyst: PSP		
Chlordane	ND	0.0050		mg/L	1	08/25/2020 2:06 PM	68078
Endrin	ND	0.00050		mg/L	1	08/25/2020 2:06 PM	68078
gamma-BHC	ND	0.00025		mg/L	1	08/25/2020 2:06 PM	68078
Heptachlor	ND	0.00025		mg/L	1	08/25/2020 2:06 PM	68078
Heptachlor epoxide	ND	0.00025		mg/L	1	08/25/2020 2:06 PM	68078
Methoxychlor	ND	0.0025		mg/L	1	08/25/2020 2:06 PM	68078
Toxaphene	ND	0.010		mg/L	1	08/25/2020 2:06 PM	68078



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

## Laboratory Results

Client ID: INTERRA, Inc.

Report Date: August 28, 2020

Project Name: Cherry Ave

Workorder: 2008I19

Client Sample ID: Cherry Comp

Matrix: SOIL

Lab ID: 2008I19-006

Date Received: 08/20/2020 3:51 PM

Collection Date: 08/20/2020 10:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>PESTICIDES, TCLP LEACHED</b>		Method: EPA-1311/8081A-Rev 1, Dec-96			Analyst: PSP		
<u>Internal Quality Control Compounds</u>							
SS: Tetrachloro-m-xylene	58.2	21-128		%Rec	1	08/25/2020 2:06 PM	68078
<b>VOLATILES, TCLP LEACHED</b>		Method: EPA-1311/8260B-Rev 2, Dec-96			Analyst: RWM		
1,1-Dichloroethene	ND	0.004		mg/L	100	08/21/2020 5:53 PM	68050
1,2-Dichloroethane	ND	0.004		mg/L	100	08/21/2020 5:53 PM	68050
2-Butanone	ND	0.020		mg/L	100	08/21/2020 5:53 PM	68050
Benzene	ND	0.004		mg/L	100	08/21/2020 5:53 PM	68050
Carbon tetrachloride	ND	0.004		mg/L	100	08/21/2020 5:53 PM	68050
Chlorobenzene	ND	0.004		mg/L	100	08/21/2020 5:53 PM	68050
Chloroform	ND	0.004		mg/L	100	08/21/2020 5:53 PM	68050
Tetrachloroethene	ND	0.004		mg/L	100	08/21/2020 5:53 PM	68050
Trichloroethene	ND	0.004		mg/L	100	08/21/2020 5:53 PM	68050
Vinyl chloride	ND	0.004		mg/L	100	08/21/2020 5:53 PM	68050
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	97.9	70-130		%Rec	100	08/21/2020 5:53 PM	68050
SS: Dibromofluoromethane	91.0	70-130		%Rec	100	08/21/2020 5:53 PM	68050
SS: Toluene-d8	104	70-130		%Rec	100	08/21/2020 5:53 PM	68050
<b>PCBS</b>		Method: EPA-8082-Rev 0, Dec-96			Analyst: PSP		
Aroclor 1016	ND	0.0187		mg/Kg-dry	1	08/25/2020 5:45 PM	68057
Aroclor 1221	ND	0.0187		mg/Kg-dry	1	08/25/2020 5:45 PM	68057
Aroclor 1232	ND	0.0187		mg/Kg-dry	1	08/25/2020 5:45 PM	68057
Aroclor 1242	ND	0.0187		mg/Kg-dry	1	08/25/2020 5:45 PM	68057
Aroclor 1248	ND	0.0187		mg/Kg-dry	1	08/25/2020 5:45 PM	68057
Aroclor 1254	ND	0.0187		mg/Kg-dry	1	08/25/2020 5:45 PM	68057
Aroclor 1260	ND	0.0187		mg/Kg-dry	1	08/25/2020 5:45 PM	68057
<u>Internal Quality Control Compounds</u>							
SS: Tetrachloro-m-xylene	63.8	33.7-156		%Rec	1	08/25/2020 5:45 PM	68057
<b>CYANIDE, REACTIVE</b>		Method: EPA-SW7.3.3.2-Rev SW7.3.3.2			Analyst: kjs		
Reactive Cyanide	ND	0.93	G	mg/Kg	1	08/24/2020 12:00 AM	R123769
<b>FLASH POINT, OPEN CUP</b>		Method: ASTM-D92-Rev 2002b			Analyst: AD		
Flash Point	>212	0	c	°F	1	08/21/2020 10:19 AM	R123451
<b>MERCURY BY CVAA, TCLP</b>		Method: EPA-1311/7470A-Rev 1, Sep-94			Analyst: LT		



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

## Laboratory Results

Client ID: INTERRA, Inc.

Report Date: August 28, 2020

Project Name: Cherry Ave

Workorder: 2008I19

Client Sample ID: Cherry Comp

Matrix: SOIL

Lab ID: 2008I19-006

Date Received: 08/20/2020 3:51 PM

Collection Date: 08/20/2020 10:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>MERCURY BY CVAA, TCLP</b>				Method: EPA-1311/7470A-Rev 1, Sep-94		Analyst: LT	
Mercury	ND	0.0002		mg/L	1	08/25/2020 12:18 PM	68086
<b>PAINT FILTER</b>				Method: EPA-9095A-Rev 1, Dec-96		Analyst: AD	
Free Liquids	PASS	0	c	Pass/Fail	1	08/21/2020 10:19 AM	R123451
<b>PH (IN LABORATORY) &lt;ATC&gt;</b>				Method: EPA-9045C-Rev 3, Jan-95		Analyst: mmh	
pH	8.89	1.00		pH Units	1	08/25/2020 7:57 PM	R123596
<b>PHENOLICS</b>				Method: EPA-9065-Rev 0, Sep-86		Analyst: LT	
Phenolics, Total Recoverable	ND	0.280	c	mg/kg-dry	50	08/26/2020 3:09 PM	R123630
<b>PERCENT MOISTURE</b>				Method: ASTM-D2216-Rev 2005		Analyst: STP	
Percent Moisture	11	1.0	c	wt%	1	08/25/2020 11:24 AM	R123559
<b>SULFIDE, REACTIVE</b>				Method: EPA-SW7.3.4.2-Rev SW7.3.4.2		Analyst: kjs	
Reactive Sulfide	ND	9.30	GH	mg/Kg	1	08/28/2020 12:00 AM	R123769
<b>HERBICIDES, TCLP LEACHED (SUBCONTRACTED)</b>				Method:		Analyst: kjs	
Silvex {Z}	ND	0.0010	G		1	08/28/2020 12:00 AM	R123769
2,4-D	ND	0.0020	G		1	08/28/2020 12:00 AM	R123769



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

## PREP DATES REPORT

**Client:** INTERRA, Inc.  
**Project:** Cherry Ave

**Report Date:** August 28, 2020  
**Lab Order:** 2008I19

Sample ID	Collection Date	Batch ID	Prep Test Name	TCLP Date	Prep Date
2008I19-006A	8/20/2020 10:45:00 AM	68213	AQUEOUS PREP TOTAL METALS: ICP		8/28/2020
		68100	AQUEOUS PREP TOTAL METALS: ICP		8/24/2020
		68086	MERCURY PREP for TCLP / SPLP		8/24/2020
		68057	SOLID PREP SONICATION: PCB		8/21/2020
		68078	TCLP AQ. PREP SEP FUNNEL: Pest		8/21/2020
		68077	TCLP AQ. PREP SEP FUNNEL: BNA		8/21/2020
		68050	TCLP SAMPLE PREP ZHE (VOCS)		8/20/2020
		68052	TCLP SAMPLE PREP (Metals)		8/20/2020
		68051	TCLP SAMPLE PREP (Organics)		8/20/2020



**Qualifiers:**

- \* /x Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- C Value is below Minimum Concentration Limit
- c Analyte not in SLI scope of accreditation
- E Estimated, detected above quantitation range
- G Refer to case narrative page for specific comments
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit (QL)
- N Tentatively identified compounds
- ND Not Detected at the Reporting Limit
- P Present
- Q Accreditation is not available from Wisconsin
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- T Analyte detected in sample trip blank
- V EPA requires field analysis/filtration. Lab analysis would be considered past hold time.



**SUBURBAN LABORATORIES, Inc.**  
 1950 S. Batavia Ave. Ste. 150 Geneva, IL 60134

Tel. 708.544.3260

**CHAIN OF CUSTODY RECORD**  
 login@suburbanlabs.com www.suburbanlabs.com

Company Name: **Interc Services Inc**  
 Company Address: **600 Territorial Drive**  
 City: **Bolingbrook** State: **IL** Zip: **60416**  
 Office: **630-684-8700** Mobile: **630-684-8700** Fax:

Email Address: **esivuser@interservice.com**  
 Project ID / Location: **Cherry Ave.**  
 Project Manager (Report to): **Eric Slusser / ASLOK Funck**  
 Sample Collector(s): **Petrack Lunt**

TURNAROUND TIME REQUESTED  
 Normal  RUSH\*

\* Must be pre-approved and surcharges apply. Checking this box indicates your approval of surcharges.  
 Date and Time Report Needed:

Specify Regulatory Program:  None/Info Only  
 LUST  SRP  SDWA  
 503 Sludge  NPDES  MWRDGC  
 Disposal  CCDD  OTHER - Specify Below

SAMPLE IDENTIFICATION (Use 1 line per container type)	COLLECTION		MATRIX	GRAB/COMP	CONTAINERS QTY SIZE & TYPE	PRESERVATIVE	ANALYSIS & METHOD REQUESTED Enter an 'X' in box below for request
	DATE	TIME					
1 SB-1	8/20/20	615	S	Comp	1 32oz, 6		
2 SB-2		1030					
3 SB-3		900					
4 SB-4		935					
5 SB-5		1000					
6 Cherry Comp		1045					X
7							
8							
9							
10							
11							
12							

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water (SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H<sub>2</sub>SO<sub>4</sub>, HCl, HNO<sub>3</sub>, Methanol (MeOH), NaOH, Sodium Bisulfate (NaBS), Na<sub>2</sub>SO<sub>4</sub>

COMMENTS & SPECIAL INSTRUCTIONS:  
 Interc Project #: ~~8861~~ 8635  
 Not Project #: TIF-T-23 Cherry Ave track removal

1. Requisitioned By: **John M** Date: **8/20/20** Time: **1445**  
 2. Requisitioned By: **John M** Date: **8/20/20** Time: **1551**  
 3. Requisitioned By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 4. Requisitioned By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Time: \_\_\_\_\_

THIS FORM MUST BE FILLED OUT COMPLETELY BY THE SAMPLE COLLECTOR OR SUBMITTER AND ORIGINAL FORM MUST ACCOMPANY SAMPLES AT ALL TIMES.

# SUBURBAN LABORATORIES, Inc.



1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134  
Tel. (708) 544-3260 • Toll Free (800) 783-LABS  
Fax (708) 544-8587  
www.suburbanlabs.com

February 27, 2019

Ashok Guntaka  
INTERRA, Inc.  
600 Territorial Drive, Suite G  
Bolingbrook, IL 60440

**Workorder: 1902C51**

TEL: (630) 754-8700  
FAX: (630) 754-8705  
RE: MA#404 Landfill Char

Dear Ashok Guntaka:

Suburban Laboratories, Inc. received 1 sample(s) on 2/20/2019 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,



Keith Sinon  
Project Manager  
708-544-3260 ext 212  
keith@suburbanlabs.com





**Client:** INTERRA, Inc.  
**Project:** MA#404 Landfill Char  
**WorkOrder:** 1902C51  
**Temperature of samples upon receipt at SLI:** 2.4 C

**Date:** February 27, 2019  
**PO #:**  
**QC Level:**  
**Chain of Custody #:** 125247

**General Comments:**

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

**Abbreviations:**

- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

**Method References:**

For a complete list of method references please contact us.

- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

**Workorder Specific Comments:**

**Phenols:**

Sample 1902C51-001A: S=The MS percent recovery (73.4%) was outside laboratory control limits (74.0% - 116.0%).

**1311\_B:**

Sample 1902C51-001A: S=The MS percent recoveries for the following analytes were outside laboratory control limits:

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**Client:** INTERRA, Inc.

**Date:** February 27, 2019

**Project:** MA#404 Landfill Char

**PO #:**

**WorkOrder:** 1902C51

**QC Level:**

**Temperature of samples upon receipt at SLI:** 2.4 C

**Chain of Custody #:** 125247

---

2,4,6-Trichlorophenol; 0% (limit: 37%-144%)

2,4,5-Trichlorophenol; 0% (limit: 37%-144%)

Pentachlorophenol; 0% (limit: 14%-176%)

G = Samples subcontracted to STAT Analysis Corp. (IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP Lab Code 101202) , for some of the analysis requested.



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

## Laboratory Results

Client ID: INTERRA, Inc.

Report Date: February 27, 2019

Project Name: MA#404 Landfill Char

Workorder: 1902C51

Client Sample ID: LF-1

Matrix: SOIL

Lab ID: 1902C51-001

Date Received: 02/20/2019 9:31 AM

Collection Date: 02/19/2019 12:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>SEMIVOLATILES, TCLP LEACHED</b>		Method: EPA-1311/8270C-Rev 3, Dec-96			Analyst: KH		
1,4-Dichlorobenzene	ND	0.100		mg/L	1	02/25/2019 7:34 PM	57728
2,4,5-Trichlorophenol	ND	0.100	S	mg/L	1	02/25/2019 7:34 PM	57728
2,4,6-Trichlorophenol	ND	0.100	S	mg/L	1	02/25/2019 7:34 PM	57728
2,4-Dinitrotoluene	ND	0.100		mg/L	1	02/25/2019 7:34 PM	57728
Hexachlorobenzene	ND	0.100		mg/L	1	02/25/2019 7:34 PM	57728
Hexachlorobutadiene	ND	0.100		mg/L	1	02/25/2019 7:34 PM	57728
Hexachloroethane	ND	0.100		mg/L	1	02/25/2019 7:34 PM	57728
m,p-Cresol	ND	0.100		mg/L	1	02/25/2019 7:34 PM	57728
Nitrobenzene	ND	0.100		mg/L	1	02/25/2019 7:34 PM	57728
O-Cresol	ND	0.100		mg/L	1	02/25/2019 7:34 PM	57728
Pentachlorophenol	ND	0.100	S	mg/L	1	02/25/2019 7:34 PM	57728
Pyridine	ND	0.100		mg/L	1	02/25/2019 7:34 PM	57728
<u>Internal Quality Control Compounds</u>							
SS: 2,4,6-Tribromophenol	12.4	10-190		%Rec	1	02/25/2019 7:34 PM	57728
SS: 2-Fluorobiphenyl	50.8	37.7-110		%Rec	1	02/25/2019 7:34 PM	57728
SS: 2-Fluorophenol	1.92	11.1-127	S	%Rec	1	02/25/2019 7:34 PM	57728
SS: Nitrobenzene-d5	62.2	27.2-110		%Rec	1	02/25/2019 7:34 PM	57728
SS: Phenol-d6	14.9	9.97-133		%Rec	1	02/25/2019 7:34 PM	57728
<b>METALS BY ICP, TCLP LEACHED</b>		Method: EPA-1311/6010B-Rev 2, Dec-96			Analyst: mmh		
Arsenic	ND	0.010		mg/L	1	02/26/2019 4:06 PM	57713
Barium	0.35	0.25		mg/L	1	02/26/2019 4:06 PM	57713
Cadmium	ND	0.0010		mg/L	1	02/26/2019 4:06 PM	57713
Chromium	ND	0.025		mg/L	1	02/26/2019 4:06 PM	57713
Lead	0.0091	0.0050		mg/L	1	02/26/2019 4:06 PM	57713
Selenium	ND	0.025		mg/L	1	02/26/2019 4:06 PM	57713
Silver	ND	0.025		mg/L	1	02/26/2019 4:06 PM	57713
<b>PESTICIDES, TCLP LEACHED</b>		Method: EPA-1311/8081A-Rev 1, Dec-96			Analyst: SJ		
Chlordane	ND	0.0050		mg/L	1	02/25/2019 2:44 PM	57723
Endrin	ND	0.00050		mg/L	1	02/25/2019 2:44 PM	57723
gamma-BHC	ND	0.00025		mg/L	1	02/25/2019 2:44 PM	57723
Heptachlor	ND	0.00025		mg/L	1	02/25/2019 2:44 PM	57723
Heptachlor epoxide	ND	0.00025		mg/L	1	02/25/2019 2:44 PM	57723
Methoxychlor	ND	0.0025		mg/L	1	02/25/2019 2:44 PM	57723
Toxaphene	ND	0.010		mg/L	1	02/25/2019 2:44 PM	57723



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

## Laboratory Results

Client ID: INTERRA, Inc.

Report Date: February 27, 2019

Project Name: MA#404 Landfill Char

Workorder: 1902C51

Client Sample ID: LF-1

Matrix: SOIL

Lab ID: 1902C51-001

Date Received: 02/20/2019 9:31 AM

Collection Date: 02/19/2019 12:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>PESTICIDES, TCLP LEACHED</b>		Method: EPA-1311/8081A-Rev 1, Dec-96		Analyst: SJ			
<u>Internal Quality Control Compounds</u>							
SS: Tetrachloro-m-xylene	81.3	21-128		%Rec	1	02/25/2019 2:44 PM	57723
<b>VOLATILES, TCLP LEACHED</b>		Method: EPA-1311/8260B-Rev 2, Dec-96		Analyst: mkl			
1,1-Dichloroethene	ND	0.100		mg/L	100	02/22/2019 12:08 PM	57674
1,2-Dichloroethane	ND	0.100		mg/L	100	02/22/2019 12:08 PM	57674
2-Butanone	ND	0.500		mg/L	100	02/22/2019 12:08 PM	57674
Benzene	ND	0.100		mg/L	100	02/22/2019 12:08 PM	57674
Carbon tetrachloride	ND	0.100		mg/L	100	02/22/2019 12:08 PM	57674
Chlorobenzene	ND	0.100		mg/L	100	02/22/2019 12:08 PM	57674
Chloroform	ND	0.100		mg/L	100	02/22/2019 12:08 PM	57674
Tetrachloroethene	ND	0.100		mg/L	100	02/22/2019 12:08 PM	57674
Trichloroethene	ND	0.100		mg/L	100	02/22/2019 12:08 PM	57674
Vinyl chloride	ND	0.100		mg/L	100	02/22/2019 12:08 PM	57674
<u>Internal Quality Control Compounds</u>							
SS: 4-Bromofluorobenzene	86.0	70-130		%Rec	100	02/22/2019 12:08 PM	57674
SS: Dibromofluoromethane	102	70-130		%Rec	100	02/22/2019 12:08 PM	57674
SS: Toluene-d8	99.5	70-130		%Rec	100	02/22/2019 12:08 PM	57674
<b>PCBS</b>		Method: EPA-8082-Rev 0, Dec-96		Analyst: SJ			
Aroclor 1016	ND	0.0210		mg/Kg-dry	1	02/22/2019 4:59 PM	57697
Aroclor 1221	ND	0.0210		mg/Kg-dry	1	02/22/2019 4:59 PM	57697
Aroclor 1232	ND	0.0210		mg/Kg-dry	1	02/22/2019 4:59 PM	57697
Aroclor 1242	ND	0.0210		mg/Kg-dry	1	02/22/2019 4:59 PM	57697
Aroclor 1248	ND	0.0210		mg/Kg-dry	1	02/22/2019 4:59 PM	57697
Aroclor 1254	ND	0.0210		mg/Kg-dry	1	02/22/2019 4:59 PM	57697
Aroclor 1260	ND	0.0210		mg/Kg-dry	1	02/22/2019 4:59 PM	57697
<u>Internal Quality Control Compounds</u>							
SS: Tetrachloro-m-xylene	82.9	33.7-156		%Rec	1	02/22/2019 4:59 PM	57697
<b>CYANIDE, REACTIVE</b>		Method: EPA-SW7.3.3.2-Rev SW7.3.3.2		Analyst: kjs			
Reactive Cyanide	ND	1.0	G	mg/Kg	1	02/25/2019 12:00 AM	R105513
<b>FLASH POINT, OPEN CUP</b>		Method: ASTM-D92-Rev 2002b		Analyst: CY			
Flash Point	>212	0	c	°F	1	02/21/2019 10:40 AM	R105304
<b>MERCURY BY CVAA, TCLP</b>		Method: EPA-1311/7470A-Rev 1, Sep-94		Analyst: mmh			



# Suburban Laboratories, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

## Laboratory Results

**Client ID:** INTERRA, Inc.

**Report Date:** February 27, 2019

**Project Name:** MA#404 Landfill Char

**Workorder:** 1902C51

**Client Sample ID:** LF-1

**Matrix:** SOIL

**Lab ID:** 1902C51-001

**Date Received:** 02/20/2019 9:31 AM

**Collection Date:** 02/19/2019 12:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>MERCURY BY CVAA, TCLP</b>		Method: EPA-1311/7470A-Rev 1, Sep-94			Analyst: mmh		
Mercury	ND	0.0002		mg/L	1	02/25/2019 3:13 PM	57695
<b>PAINT FILTER</b>		Method: EPA-9095A-Rev 1, Dec-96			Analyst: CY		
Free Liquids	ND	0	c	Pass/Fail	1	02/21/2019 10:40 AM	R105304
<b>PH (IN LABORATORY) &lt;ATC&gt;</b>		Method: EPA-9045C-Rev 3, Jan-95			Analyst: RH		
pH	8.24	1.00		pH Units	1	02/22/2019 3:51 PM	R105388
<b>PHENOLICS</b>		Method: EPA-9065-Rev 0, Sep-86			Analyst: CY		
Phenolics, Total Recoverable	ND	0.314	S c	mg/kg-dry	49.8	02/25/2019 9:18 AM	R105401
<b>PERCENT MOISTURE</b>		Method: ASTM-D2216-Rev 2005			Analyst: CY		
Percent Moisture	21	1.0	c	wt%	1	02/22/2019 10:34 AM	R105355
<b>SULFIDE, REACTIVE</b>		Method: EPA-SW7.3.4.2-Rev SW7.3.4.2			Analyst: kjs		
Reactive Sulfide	ND	10.0	G	mg/Kg	1	02/21/2019 12:00 AM	R105513
<b>HERBICIDES, TCLP LEACHED (SUBCONTRACTED)</b>		Method:			Analyst: kjs		
Silvex {Z}	ND	0.0010	G		1	02/25/2019 12:00 AM	R105513
2,4-D	ND	0.0020	G		1	02/25/2019 12:00 AM	R105513



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## PREP DATES REPORT

**Client:** INTERRA, Inc.  
**Project:** MA#404 Landfill Char

**Report Date:** February 27, 2019  
**Lab Order:** 1902C51

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1902C51-001A	2/19/2019 12:15:00 P	57713	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		2/22/2019
		57695	HG_TPR	MERCURY PREP for TCLP / SPLP		2/22/2019
		57697	3550_PCB	SOLID PREP SONICATION: PCB		2/22/2019
		57723	3510_P_T	TCLP AQ. PREP SEP FUNNEL: Pest		2/25/2019
		57728	3510_B_T	TCLP AQ. PREP SEP FUNNEL: BNA		2/25/2019
		57674	1311ZHE	TCLP SAMPLE PREP ZHE (VOCS)		2/21/2019
		57675	1311LM	TCLP SAMPLE PREP (Metals)		2/21/2019
		57677	1311LO	TCLP SAMPLE PREP (Organics)		2/21/2019



**Qualifiers:**

- \*/x Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- C Value is below Minimum Concentration Limit
- c Analyte not in SLI scope of accreditation
- E Estimated, detected above quantitation range
- G Refer to case narrative page for specific comments
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit (QL)
- N Tentatively identified compounds
- ND Not Detected at the Reporting Limit
- P Present
- Q Accreditation is not available from Wisconsin
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- T Analyte detected in sample trip blank
- V EPA requires field analysis/filtration. Lab analysis would be considered past hold time.



**SUBURBAN LABORATORIES, Inc.**  
1950 S. Batavia Ave., Ste 150, Geneva, IL 60134

Tel: 708.544.3260

Fax: 708.544.8567

**CHAIN OF CUSTODY RECORD**  
Toll Free: 800.783.LABS www.suburbanlabs.com

# 125247

Company Name

Company Address

City

Phone

State

Fax

Zip

Sample Collector(s) Name

Project Manager (Report to)

Project ID / Location

Project Manager (Report to)

Project ID / Location

Project Manager (Report to)

Project ID / Location

Project Manager (Report to)

Project ID / Location

Project Manager (Report to)

Project ID / Location

Project Manager (Report to)

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Project ID / Location

Project Manager (Report to)

Project ID / Location

Project Manager (Report to)

Project ID / Location

Project Manager (Report to)

Project ID / Location

Project Manager (Report to)

TURNAROUND TIME REQUESTED  
 Normal  RUSH\*  
\*Additional Rush Charges Approved

\*Date & Time Needed:  
Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.

Specify Regulatory Program:  None/Info Only  
 LUST  SRP  CODD  
 503 Sludge  NPDES  LUST  
 Disposal  Other\* REIMBURSEMENT  
\*Please specify in comment section below.

ANALYSIS & METHOD REQUESTED  
Enter an "X" in box below for request

Land Fill Character: 2010

SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION		MATRIX	GRAB/COMP	CONTAINERS QTY, SIZE & TYPE	PRESERVATIVE	ANALYSIS & METHOD REQUESTED	Shipping Method	Reporting Level (at additional charge)
	DATE	TIME							
1 LF-1	2/18/19	12:15	S				X		1 2 3 4
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									

COMMENTS & SPECIAL INSTRUCTIONS:

Intera Project # 8181  
CDOT Project # MA404

**MATRIX:** Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water (SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H<sub>2</sub>SO<sub>4</sub>, HCl, HNO<sub>3</sub>, Methanol (MeOH), NaOH, Sodium Bisulfate (NaB), NaTHio

1. Relinquished By

Date 2/20/19

Received By [Signature]

Date 2/20/19

Received By [Signature]

Date

Received By [Signature]

Date

- CONDITION CODES**
1. Improper/damaged container/cap
  2. Improper preservation
  3. Insufficient sample volume
  4. Headspace/air bubbles for VOCs
  5. Received past holding time
  6. Received frozen
  7. Label conflicts with COC

Received By [Signature]

Date 0227

Received By [Signature]

Date 0931

Received By [Signature]

Date

Received By [Signature]

Date

Submission of samples subject to Terms and Conditions on back

Rev. 07/20/08

White-Original, Pink-Sampler Copy

**APPENDIX H**

**REPORT FORMAT – ENVIRONMENTAL INVESTIGATION**

## APPENDIX H

### REPORT FORMAT FOR ENVIRONMENTAL INVESTIGATION

### CDOT LOCAL ROADWAY PROJECTS

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**Purpose:** The purpose of this document is to provide a standard report format and structure for **Local** roadway and/or alley projects for the City of Chicago Department of Transportation (CDOT). The report structure is intended to be a combined and streamlined package report which includes elements of a Preliminary Environmental Site Assessment (PESA) report, Preliminary Site Investigation (PSI) report and a Clean Construction or Demolition Debris (CCDD) summary report with accompanying Illinois Environmental Protection Agency (IEPA) Uncontaminated Soil Certification LPC-663 form to standardize testing procedures for waste material designated for disposal at a CCDD/Uncontaminated Soil Fill Operation (USFO) facility, and/or a landfill facility. This combined report is intended for only local roadway projects and is not intended to replace Illinois Department of Transportation (IDOT) requirements for state jurisdiction roadway projects.

**Owner:** The document was prepared with input from CDOT and will be maintained by the CDOT Quality Assurance (QA) consultant for Regulated Substances (referred to herein as “CDOT QA”).

**Effective Date:** August 8, 2025

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#### TITLE PAGE

- (Draft/Final) Preliminary Site Assessment and Investigation Report
- Project Details
- Date

#### EXECUTIVE SUMMARY

- Overview of the project information including Project Name, street/alley names within the project area, bounding street names, project coordinates, anticipated depth of proposed excavation, etc.
- Purpose of investigation, which should include identification of Potentially Impacted Properties (PIPs), advancement of environmental borings, characterization of soil through collection of environmental samples, and comparison to the Maximum Allowable Concentrations (MACs) for ultimate disposal at a Clean Construction or Demolition Debris (CCDD) or Uncontaminated Soil Fill Operation (USFO) facility.
- Overview of the date of investigation (site reconnaissance and soil boring advancements), number of borings advanced, and depth of environmental investigation sampling activities.
- Overview of soil samples collected, laboratory, and analytical methods.
- Summary of Soil Disposal Classifications for the Project Area spoils using the IDOT Standard Specifications for Road and Bridge Construction, Section 669.05 (Removal and Disposal of Regulated Substances – Contaminated Soil and/or Groundwater Management and Disposal).
- Conclusions and recommendations.

Tables summarizing the identified sites, sample analytical summary, and Soil Disposal Classifications can be included in this section.

## **1.0 INTRODUCTION**

### **1.1 Scope of Assessment**

- Overview of the project information including Project Name, street/alley names within the project area, bounding street names, project coordinates, anticipated depth of proposed excavation, etc.
- Purpose of investigation, which should include identification of Potentially Impacted Properties (PIPs), advancement of environmental borings, characterization of soil through collection of environmental samples, and comparison to the Maximum Allowable Concentrations (MACs) for ultimate disposal at a Clean Construction or Demolition Debris (CCDD) or Uncontaminated Soil Fill Operation (USFO) facility

### **1.2 Proposed Improvements**

- A description of the proposed CDOT project improvements.

### **1.3 Surrounding Land Use**

- A brief description of current land use of properties adjacent to the Project Area/Corridor.

## **2.0 HISTORICAL LAND USE**

### **2.1 Historical Aerial Photographs and Topographic Maps (Optional)**

- Discussion of either publicly available historical aerial photographs or aerial photographs obtained through a third-party company. Descriptions should be detailed enough to convey a general use of the surrounding properties and their approximate duration of development (i.e. residential, commercial, industrial).

### **2.2 Fire Insurance Maps**

- Provide information from the review of Fire Insurance Maps (FIMs), if available and applicable for the Project Area/Corridor.

## **3.0 PROJECT SITES**

### **3.1 Records Search**

- Summary and description of the method of reviewing environmental database records and a summary of the identified sites, including which sites are considered to be PIPs (in tabular format).
- A brief description of the identified PIPs.

### **3.2 Site Reconnaissance**

- A brief description of site reconnaissance activities along the Project Area/Corridor.

## **4.0 SUBSURFACE INVESTIGATION**

### **4.1 Field Assessment**

- Provide overview and details of date of subsurface investigation(s), driller, drilling method, depth of borings advanced, soil logging/screening methodology, and analytical summary of parameters/contaminants of concern. Analytical summary can be provided in a table indicating the parameters analyzed for each sample collected.

### **4.2 Screening Results**

- Provide results of sample screening and logging, which shall include monitoring/screening with a photoionization detector (PID) for presence of volatile organic compounds (VOCs), as well as screening of odors or staining/sheen within the samples.
- Provide screening of potential waste items/debris within the “Chicago urban fill” material. Typical waste/debris items identified within the urban fill material include coal, cinders, slag, glass, plastics, wood, and others. Provide screening results within attached boring logs. Boring logs shall contain, at a minimum, boring identification, drilling contractor, drilling method, boring diameter, date of boring advancement, soil material descriptions by depth, PID screening results, and material recovery for each boring interval.

## **5.0 ANALYTICAL RESULTS**

- Provide analytical results for each sample in tabular format, as well as a brief discussion of results for each analytical suite. Results shall be compared to, at a minimum, the MACs for CCDD/USFO disposal and the Tier I Soil Remediation Objectives (SROs) for Construction Worker (CW) exposure pathway (Ingestion or Inhalation), pursuant to 35 Illinois Administrative Code (IAC) Part 742 Tiered Approach to Corrective Action Objectives (TACO).

## **6.0 CONCLUSIONS AND SOIL MANAGEMENT RECOMMENDATIONS**

### **6.1 CCDD and Soil Disposal Classification Assessment**

- Summary of Soil Disposal Classifications for the Project Area spoils using the CDOT SP 202-2 EARTH EXCAVATION (SOIL TO CCDD FACILITY, USFO, OR LANDFILL) soil management specifications.
- Soil Disposal Classifications can be provided in tabular format and shall include each boring area within the Project Area/Corridor, with each boring sample depth interval specified.
- Provide a brief description of areas which are ineligible for CCDD/USFO disposal and the recommended disposal destination.

### **6.2 Special Handling or Construction Worker Considerations**

For samples/areas in which soil results indicate one or more parameters exceed the Tier I SROs for CW exposure pathway (Ingestion or Inhalation), provide a summary and description of those sample result(s) and area(s).

**RECOMMENDED REPORT ATTACHMENTS**

- LPC 663 FORM CERTIFICATION (Signed by a P.E. or P.G. registered and licensed in the State of Illinois)
- FIGURES
  - Site Location Map (on a topographic map)
  - Site Layout Map (on an aerial photograph)
  - Identified Sites Map (on an aerial photograph)
  - Soil Boring Location Map on an aerial photograph)
  - Soil Classification Map (on an aerial photograph)
  - Construction Worker Caution Area Map, as applicable (on an aerial photograph)
- TABLES
  - Comparison of analytical results to the CCDD MACs and the Tier I SROs
- LABORATORY ANALYTICAL REPORT(S)
- BORING LOGS
- PHOTOGRAPHIC LOG AND/OR FIELD NOTES
- SUPPLEMENTAL INFORMATION AS NEEDED (e.g., Health and Safety or Dust Monitoring Information)