Huff & Huff incorporated
A Subsidiary of GZA

GEOTECHNICAL
ENVIRONMENTAL
ECOLOGICAL
WATER
CONSTRUCTION MANAGEMENT

915 Harger Road
Suite 330
Oak Brook, IL 60523
T: 630.684.9100
F: 630.928.0709
www.huffnhuff.com
www.gza.com



August 25, 2025

Illinois Department of Transportation
Attention: Mr. James R. Curtis
2300 South Dirksen Pkwy
Springfield, IL 62764

IDOT Job No.: Not Listed
District: 2
County: Winnebago
Municipality: Rockford
Route: FAU 5082
Marked: Not Listed
Street: 15th Ave and Marchesano Dr.
From To/At: West Street to Orange Street

PTB: 207-054 (Huff3)
Work Order No.: 025
BDE Sequence No.: 23305
Requesting Agency: Local
Contract No.: Not Listed
Section No.: 19-00631-00-BR
ISGS PESA No.: 4013-COV
Anticipated Letting Date: March 6, 2026
Target PSI Completion: Sept. 5, 2025
IDOT Project Manager: Douglas Liniger

Dear Mr. Curtis,

Huff & Huff, Inc, a subsidiary of GZA, Inc. (H&H) is presenting this Response to Comment (RTC) letter to address the IDOT "Draft PSI Comments" document dated August 19, 2025, for the referenced Preliminary Site Investigation (PSI) noted above provided to IDOT on August 15, 2025. The RTC is intended to aid in an expedited final review of the Final Preliminary Site Investigation Report (PSI). H&H's responses to IDOT's comments are listed below in **bold**.

1. IDOT Comment – "Table 4-2: The reference to (a)(6) in the Classification and General Notes (under the table to the right) references Hazardous Waste. Material classified as 669.05(a)(6) are either special or hazardous waste, relying on analytical results to differentiate which sub-classification will apply.

   H&H Response to Comment #1: H&H has updated table footnote to refer to 669.05(a)(6) soils as either special or hazardous waste based on analytical results as the differentiator of sub-classification on Table 4-2 and Table 4-3.

2. IDOT Comment – "Table 5-2: Since most of the work to be completed is at an intersection and the contaminants of concern are primarily PNAs, the department believes one waste characterization sample will suffice for the project."

   H&H Response to Comment #2: Consistent with the request, H&H has reduced the number of waste characterization samples proposed on this project to one (1) and updated throughout the report, as applicable.

3. IDOT Comment – "Section 5-2: Avoid using the " ' " mark. It is preferred to spell out the word "feet" instead of using abbreviations."

   H&H Response to Comment #3: H&H has updated the specifications to spell out feet, as applicable.

If you have any questions regarding the RTC, please do not hesitate to contact us.

Respectfully submitted,

Huff & Huff, Inc., a subsidiary of GZA, Inc.



Jeremy J. Reynolds, P.G.
Associate Principal/Vice President

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August 25, 2025 via IDOT Extranet

Jim Curtis – Chief, Geologic and Waste Assessment Unit
Illinois Department of Transportation
Bureau of Design and Environment
2300 South Dirksen Parkway
Springfield, IL 62764

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IDOT Project Manager: Douglas Liniger

Dear Mr. Curtis,

Huff & Huff, Inc, a subsidiary of GZA, Inc. (H&H) presents this Preliminary Site Investigation (PSI) Report for the potential waste site referenced above, which addresses the comments provided by IDOT in their August 19, 2025 letter in response to review of the Draft PSI Report provided on August 15, 2025.

H&H completed the work plan and budget development, field work, data evaluation, PSI report writing, figures, and project management. The attached PSI Report provides detailed information for proposed construction activities, investigative approach and sampling, and an analysis plan. If you have any questions, please do not hesitate to contact us.

Respectfully submitted,

Huff & Huff, Inc., a subsidiary of GZA, Inc.

Emily McGonigle, P.E.
Project Manager

Shane Cuplin, P.G.
Consultant Reviewer/Associate Principal

Jeremy J. Reynolds, P.G.
Associate Principal

Attachment: PTB 207-054 WO025 PSI Report

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PRELIMINARY SITE INVESTIGATION

15th AVENUE AND MARCHESANO DRIVE, WEST STREET TO ORANGE STREET ROCKFORD, CARROLL COUNTY, ILLINOIS

IDOT Job No.: Not Listed
District: 2
County: Winnebago
Municipality: Rockford
Route: FAU 5082
Marked: Not Listed
Street: 15th Ave and Marchesano Dr.
From To/At: West Street to Orange Street

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Date: August 25, 2025

File No. 81.0220784.25

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915 Harger Road | Oak Brook, IL 60523
630-648-9100

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www.huffnhuff.com www.gza.com

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GLOSSARY OF ACRONYMS

ACM	Asbestos-Containing Material	**NFR**	No Further Remediation
ASTM	ASTM International	**NPMS**	National Pipeline Mapping System
bgs	below ground surface	**PCB**	Polychlorinated Biphenyls (PCBs)
BDE	Bureau of Design and Environment	**PESA**	Preliminary Environmental Site Assessment
BLRS	Bureau of Local Roads and Streets	**PGA**	Peak Ground Acceleration
BTEX	Benzene, Toluene, Ethylbenzene, and total Xylenes	**PID**	Photoionization Detector
CCDD	Clean Construction or Demolition Debris	**PIP**	Potentially Impacted Property
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System	**PNA**	Polynuclear Aromatic Hydrocarbons
COC	Contaminant of Concern	**PSI**	Preliminary Site Investigation
CWA	Clean Water Act	**RCRA**	Resource Conservation and Recovery Act
ERIS	Environmental Risk Information Services	**REC**	Recognized Environmental Condition
FEMA	Federal Emergency Management Agency	**RO**	Remedial Objective
FOIA	Freedom of Information Act	**ROW**	Right-of-Way
IAC	Illinois Administrative Code	**SPILLS**	Spills and Incidences
IDOT	Illinois Department of Transportation	**SQG**	Small Quantity Generator
IEMA	Illinois Emergency Management Agency	**SVOC**	Semi-Volatile Organic Compound
IEPA	Illinois Environmental Protection Agency	**USEPA**	United States Environmental Protection Agency
ISGS	Illinois State Geological Survey	**USGS**	United States Geological Survey
KEG	Kaskaskia Engineering Group, LLC	**UST**	Underground Storage Tank
LUST	Leaking Underground Storage Tank	**VOC**	Volatile Organic Compound
MAC	Maximum Allowable Concentration	**WWTP**	Wastewater Treatment Plant
NIPC	Northeast Illinois Planning Commission		

1.0 INTRODUCTION

Huff & Huff, a subsidiary of GZA, In. (H&H) was tasked by the Illinois Department of Transportation (IDOT) to complete a Preliminary Site Investigation (PSI) in connection with proposed improvements for 15th Avenue and Marchesano Drive, from West Street to Orange Street, in Rockford, Winnebago County, Illinois (**Exhibit 1**). The PSI was completed under Work Order 025 issued under IDOT Work Order Agreement for Consultant Services, PTB 207-054. H&H completed work plan and budget development, field work, data evaluation, PSI report writing and figure preparation, and project management. H&H contracted with Lucky Locators to complete a geophysical survey to assess the subsurface for the presence of underground storage tanks (USTs) in the vicinity of select PESA sites. H&H will complete final project closeout, including ICT submittal upon the approval of the final PSI, in accordance with the approved project schedule.

Planned improvements for the intersection of 15th Avenue and Marchesano Drive include sidewalk improvements, tree removal, and adjacent roadway improvements. Information from a Preliminary Environmental Site Assessment (PESA) #4013 dated January 13, 2021, was used to identify the construction area recognized environmental conditions (RECs) that may potentially affect the project. Based on proposed construction and preliminary investigation, the following RECs were identified near or within the construction area: former USTs; potential UST(s); USTs; potential AST; VOCs, SVOCs, and metals; potential former chemical use; and potential ACM and lead paint.

IDOT file information provided to H&H depicted construction/excavation work sites for the earth excavation which will extend to a maximum depth of 1 foot below ground surface (bgs). The PSI is completed under Work Order 025 issued under the IDOT Work Order Agreement for Consultant Services, PTB 207-054 (Various Statewide Assessments, Studies, and Designs). This project was tasked to H&H (PTB-207-054-025) on May 1, 2025, and authorized on June 26, 2025.

Field investigation activities proposed under the tasking were completed by H&H on July 17, 2025. Objectives for this investigation are defined in the final IDOT-approved work plan dated June 26, 2025, as follows:

- Identify, to the degree possible pursuant to this scope of work, the nature and extent of subsurface contamination within the soil and/or groundwater of the project area. This determination specifically includes those areas in which subsurface excavation activities will be completed in support of construction activities.
- Develop an approach, including approximate volume estimates and associated cost estimates, for the proper handling and/or disposal of contaminated soil and groundwater that are likely to be encountered during the proposed construction activities.
- Assess the potential for the further or continued contamination of existing IDOT property caused by the migration of contaminants from adjacent properties to the project area.
- Assess the potential for the release of contaminants resulting from the proposed construction activities within the project area.
- Generate data necessary to evaluate the potential for construction workers on-site to be exposed to contaminants.
- Prepare a PSI report presenting the findings of the investigation, conclusions, and recommendations addressing the above referenced objectives.

This report presents the findings of the investigations in five sections. Section 1 (above) introduces the site and details of the proposed work. Section 2 provides site background information. Section 3 describes the procedures and sampling rationale used during the field investigations. Section 4 summarizes field investigation results including observations, field measurements, sampling rationale, analytical results, and comparison of analytical results to regulatory criteria. Section 5 provides conclusions of the investigation and recommendations for further investigation and contaminant migration reduction techniques, if necessary.

2.0 SITE BACKGROUND

The Illinois State Geological Survey (ISGS) PESA #4013 dated January 13, 2021, was completed for this project, and included a geological and hydrological summary, a historical environmental data property search, and maps depicting the project area. The PESA report was used to identify the construction area RECs that may potentially affect the project. Former USTs, potential UST(s), USTs, potential AST, VOCs, SVOCs, and metals, potential former chemical use, and potential ACM and lead paint were identified near or within the construction area based on proposed construction and preliminary investigation in addition to information provided by IDOT. H&H was also provided with a BDE 2735 PESA Response/PSI Work Order form depicting PESA Sites, potential RECs, ROW acquisition or easement information, proposed construction details and estimated volumes of soil excavation.

The BDE 2735 form provided to H&H lists the proposed improvements associated with the project to extend to a maximum depth of 1-foot bgs. Soil borings were advanced to the maximum depth of up to 1 foot based on the proposed construction activities throughout the identified PESA Site to accomplish soil characterization and field screening objectives proposed for each boring location.

Table 2-1 presents the PESA Sites investigated by H&H as part of this PSI, along with the RECs identified and the proposed construction activities and information. Applicable background information about the PESA Site, as provided in the PESA report, is included as **Appendix A**. The site investigation area is depicted on **Exhibit 1**.

H&H received correspondence from IDOT via tasking letter dated May 1, 2025, with the estimated construction quantities for the improvements.

During the development of the Work Plan, H&H identified the Southeast Rockford Groundwater Contamination Superfund Project (Superfund Site) (EPA Registry Id: 110009326764, EPA ID: ILD981000417) as extending to a location east of and adjacent to the Rock River at 15th Street. Utilizing IROADS, the Illinois Roadway Analysis Database System, the 15th Street Bridge was identified as being under local jurisdiction. During a phone call with BDE on May 2, 2025, IDOT concurred that sampling of the subsurface materials was unnecessary below the Rock River due to the proximity of the Superfund Site and the local jurisdiction of the 15th Street Bridge. Based on this added information, it was decided during the May 2 phone call that this project would be conducted as a standard PSI, not as a Hybrid PSI, and that sampling would be beneficial along Site 4013-COV-7, despite no identified RECs, extending beyond the proposed improvements based on the proximity of the site to the Southeast Rockford Groundwater Contamination Superfund Project (Superfund Site).

The quantities listed in the BDE 2735 are separated by PESA Site and tabulated by construction activity. Work proposed for sequence number 23305, covered by this PSI, includes a total of 417 cubic yards (CY). Excavation quantities listed by the District for the Site containing the RECs and interpreted by H&H are as follows:

PESA Site Number and Name	Cubic Yardage (CY)
Site 4013-COV-2 - Vacant Land	321
Site 4013-COV-4 - Commercial Building	17
Site 4013-COV-6 - Poor Clares Corpus Christi Monastery	8
Site 4013-COV-7 - Vacant Land	71
Total	**417**

H&H requested information from IDOT District 2 (and their design consultant for the project) regarding the construction limits for the project. H&H received the construction limits for the locations detailed above which are depicted on **Exhibit 1** and **Exhibit 2.** The excavation volumes are broken down by PESA site and construction activity. The final maximum depth of construction was specified as 1-foot bgs. Borings were advanced to the proposed maximum depth of construction for each boring. Borings were advanced for soil characterization and field screening.

3.0 FIELD INVESTIGATION PROCEDURES

H&H followed the IDOT approved site-specific investigation work plan and standard operating procedures (SOPs) to achieve each of the objectives listed in Section 1. The field investigation for this project included field screening and sampling soil at the locations shown in Section 2 and depicted on **Exhibits 1** and **2**. This section details the procedures used for field screening, sample collection, equipment decontamination, quality assurance, and sample custody.

3.1 SOIL BORING AND SAMPLING PROCEDURES

H&H advanced a total of seven (7) soil borings in the proposed construction area during the field activities completed on July 17, 2025. The borings were advanced across the PESA Site based on the location of the proposed improvements. Borings were advanced using a hand auger. Borings were advanced along the proposed improvements for earth excavation. The final completed soil boring locations are shown on **Exhibit 2**. A summary of the sampling analysis program for the PSI is presented in **Table 3-1**.

Individual boring locations were identified with a unique numeric identification code that identified the ISGS PESA Site number (i.e., 4013) followed by the PESA Site number (i.e., 3). Within each PESA Site investigated, individual soil borings were located in numerical order starting with the first boring location (i.e., 01). Thus, for ISGS PESA Site number 4013-3, the sampling identification number and depth interval for the first sample collected was 4013-3-01.

H&H marked the boring locations and reviewed the public utility clearance completed by Illinois 811 (JULIE) the week of July 14, 2025. H&H advanced the soil borings on July 17, 2025. Soil borings were advanced to the depths proposed in the IDOT-approved work plan prepared by H&H. H&H recorded the final depth, latitude, and longitude for each boring when drilling was completed.

A soil sample was collected from each boring location using a hand auger. Soils from each interval were removed from the ground and placed in a new Ziplock bag. Sample intervals were screened in the field using a photoionization detector (PID) for volatile organic compounds (VOCs) immediately upon collection from the ground. The depth interval, soil recovery, soil description, PID reading recorded in parts per million (ppm), and other visual or olfactory information were recorded for each sample interval at each boring location. Field notes were used to draft individual soil boring logs for each location. Boring logs are provided in **Appendix C**.

Tooling that contacted the soil samples was decontaminated using a solution of Alconox® and water prior to breaking ground and between each soil boring location. Soil sample collection generated a 2-inch borehole at each sample location which was restored with excess soil cuttings not submitted for laboratory analysis.

H&H collected and submitted seven (7) soil samples from the project area for laboratory analysis during the field investigation. A waste characterization sample was proposed to be collected in the final work plan, if field observations indicated gross contamination was present; field observations did not identify conditions requiring waste characterization sample collection. Sample results are included with **Table 4-2**.

3.2 GROUNDWATER SAMPLING PROCEDURES

Groundwater sampling was not proposed in the final work plan due to the final depth of construction being approximately 1-foot bgs.

3.3 GROUND PENETRATING RADAR SURVEY

As part of this PSI, on July 17, 2025, H&H mobilized with Lucky Locators, Inc to complete a ground penetrating radar (GPR) investigation of potential USTs within the IDOT right-of-way (ROW) associated with sites identified in the PESA as having potential USTs. The purpose of this investigation was to evaluate and document the location and dimensions of potential USTs (and associated dispensing systems, if applicable) in advance of completing the PSI drilling activity.

Two (2) sites along the project were identified in the PESA to have had USTs or were occupied by businesses that may have utilized USTs and are summarized below:

- **ISGS Site No. 4013-COV-2 – Vacant Land**

  RECs: Former USTs; potential UST(s); potential former chemical use; VOCs, SVOCs, and metals detected in previous PSI testing

- **ISGS Site No. 4013-COV-4 – Commercial Building**

  RECs: USTs; potential UST(s); potential former chemical use; VOCs, SVOCs, and metals detected in previous ISGS and PSI testing

The survey was conducted with a cart mounted IDS Opera Duo with dual-frequency antennas (250 MHz and 700 MHz). The cart was pushed in approximate evenly spaced perpendicular lines in a grid pattern in the vicinity of the proposed soil borings. Due to the high volume of utilities located within the ROW in site 4013-COV-4, Lucky Locators also scanned within the parking lot of the commercial building to identify if anomalies were running into or adjacent to the ROW.

Upon completion of the GPR survey, the subcontractor identified the presence of an anomaly considered to be representative of a UST or an abandoned utility line within the locations scanned. Please refer to the GPR survey report in **Appendix B** and the location of the anomaly can be seen on **Exhibit 3**.

4.0 IDOT ROW FIELD INVESTIGATION RESULTS

This section presents results of the field investigation and includes a discussion of the project area geology and topography, significant field observations, sampling rationale, and laboratory analytical results compared to regulatory criteria.

Table 4-1 summarizes H&H field observations and sample selection rationale by location and depth. Soil samples collected for the initial laboratory analysis were analyzed for VOCs, SVOCs, total metals and pH for all sample locations, as listed in the Recommended PSI Analytical Parameters (Version 2.0) dated May 7, 2025.

An anthropogenic source evaluation and soil survey review were completed for the study area prior to the initiation of field activities, and anthropogenic sources of iron and/or manganese were not identified in the site vicinity. IDOT PSI PTB 160-022 WO #065 (January 2013), identified exceedances of both iron and manganese in the Site 4013-COV-2 (695V-66) and Site 4013-COV-7 (695V-66) Therefore, the analysis of Toxicity Characteristic Leaching Procedure/Synthetic Precipitation Leaching Procedure (TCLP/SPLP) iron and manganese was completed for Work Order 025.

H&H reviewed laboratory results for precision, accuracy, and completeness following the approved work plan procedures regarding quality control limits. **Tables 4-2 and 4-3** provide a comparison of analytical results for soil with applicable regulatory criteria. Analytes detected at concentrations above applicable regulatory criteria in project area soil are considered contaminants of concern (COC). A discussion of the analytical results is presented below by site. Laboratory data packages are provided in **Appendix D**.

In **Table 4-2**, analyte concentrations identified in soil borings were compared to the Maximum Allowable Concentrations (MAC) of Chemical Constituents in Uncontaminated Soil Used as Fill Material at Regulated Fill Operations presented in 35 Illinois Administrative Code (IAC) Part 1100, Subpart F. The total concentration of the analyte was completed when a MAC for an inorganic analyte was based on the 35 IAC Tiered Approach to Corrective Action Objectives (TACO) Class I soil component of the groundwater ingestion exposure route (SCGIER) (35 IAC Part 742, Appendix B, Table C). The analyte was considered to exceed a MAC if the Total result exceeded the applicable criteria.

When the MAC for a constituent is location-specific, the detected constituent concentration is also compared to the location-specific MAC statistical area background concentration identified in 35 IAC Part 742, Appendix B, Table G and H. Analytes detected at concentrations that exceed the statistical area background concentration for the project area are considered COCs.

H&H also evaluated sample pH levels and the results of PID headspace screening per 35 IAC 1100.201(g) and 205(b)(1), respectively. Soil pH must be between 6.25 and 9.0 standard units (s.u.) for the soil to be accepted at a clean construction demolition debris (CCDD) facility or an uncontaminated soil fill operation (USFO). Soils with a pH measurement outside of the acceptable range but otherwise not impacted by COCs may be used on-site as fill and/or managed and disposed of off-site per Article 202.03 (Standard Specifications for Road and Bridge Construction, Adopted January 1, 2022).

PID headspace screening results were compared to PID background readings. The PID instrument is accurate to 1 ppm between 0 and 100 ppm. The PID was calibrated at the beginning of each field day and re-calibrated as necessary based on changing field conditions (i.e., primary wind direction, temperature, precipitation). Background was established at 0.0 ppm for this site. Soil exhibiting PID readings above background cannot be accepted by a CCDD/USFO.

The field investigation, conducted on July 17, 2025, was designed to provide an initial characterization of site conditions at pre-designated boring locations in accordance with objectives detailed in Section 1. The initial investigation was limited

in terms of analytical parameters and number of samples collected, based on the site information provided in the PESA Report (**Appendix A**).

4.1 PROJECT AREA GEOLOGY AND TOPOGRAPHY

H&H advanced seven (7) soil borings for this project and collected one (1) sample from each boring. A total of seven (7) soil samples were collected and submitted for laboratory analysis in support of the PSI. Borings were advanced to proposed final construction depths of one (1) foot. Bedrock was not encountered in any boring location. Observations of subsurface materials in the project area are described by the soil boring logs included in **Appendix C**. The following geologic information was provided by the ISGS PESA environmental data report (**Appendix A**):

Bedrock geology. The topmost bedrock unit in the project area has been mapped as the Ordovician-age rocks of the Platteville Group, which are composed of limestone.

Surficial geology. The total thickness of surficial deposits in the project area has been mapped as less than 8 m (25 ft). These deposits are composed of 0-6 m (0-20 ft) of Cahokia Formation sands and gravels over 6-15 m (20-50 ft) of Henry Formation sands and gravels.

Soils. None of the soils along the project ROW have been classified as containing more than 33% hydric components or as non-prime farmland soils by the NRCS.

Hydrogeology. Surficial drainage in the project area is generally toward the east, in the direction of Rock River (Site 4013-COV-3). However, since the project area is urbanized and storm drains and sewers are present, most surficial runoff will be controlled by the storm sewer system; such systems typically are designed to follow natural drainage patterns.

No other observed or known natural hazards or environmental risks were identified for this project.

4.2 PESA 4013-COV REC SITES, ROCKFORD, WINNEBAGO COUNTY IL

4.2.1 FIELD OBSERVATIONS

H&H completed seven (7) borings at the PESA Site along the project site in accordance with **Table 3-1** and **Exhibit 2** based on the proposed sampling strategy. The borings are discussed by PESA Site below. Field evidence of VOCs was not observed during PID headspace screening of site soils in any boring. Soil samples were collected to a maximum depth of one (1) foot bgs at each location. Groundwater was not identified during drilling. The field sampling was completed according to the accepted workplan.

4.2.2 NATURE AND EXTENT OF CONTAMINATION ABOVE APPLICABLE CRITERIA AT PESA 4013-COV SITES

4.2.2.1 PESA Site 4013-COV-2 – Vacant Land, 1900-2000 blocks of S. Main Street, Rockford, Winnebago County, Illinois

Benzo(a)pyrene and Dibenzo(a,h)anthracene were detected at concentrations exceeding the applicable MAC criteria in samples 4013-2-01 (0-1) and 4013-2-02 (0-1).

Benzo(a)anthracene was detected at a concentration exceeding the applicable MAC criteria in sample 4013-2-01 (0-1).

Benzo(b)fluoranthene was detected at a concentration exceeding the applicable MAC criteria and TACO residential criteria in sample 4013-2-01 (0-1).

Bis(2-Ethylhexyl)phthalate was detected at a concentration exceeding the applicable MAC criteria and TACO residential criteria in sample 4013-2-01 (0-1).

Indeno(1,2,3-cd)pyrene was detected at a concentration exceeding the applicable MAC criteria in sample 4013-2-01 (0-1).

Total iron and manganese were detected at concentrations exceeding the applicable MAC criteria in sample 4013-2-01 (0-1).

The pH values were within the applicable range to be considered CCDD eligible. PID values were within the criteria to be accepted at a CCDD or USFO facility.

No other soil analyte investigated in accordance with the approved work plan exceeded any applicable criteria.

4.2.2.2 PESA Site 4013-COV-4 – Commercial Building, 2019-2021 S. Main Street, Rockford, Winnebago County, Illinois

Benzo(a)anthracene, Benzo(b)fluoranthene, and Indeno(1,2,3-cd)pyrene were detected at concentrations exceeding the applicable MAC criteria and TACO residential criteria in sample 4013-4-01 (0-1).

Benzo(a)pyrene and Dibenzo(a,h)anthracene were detected at concentrations exceeding the applicable MAC criteria in sample 4013-4-01 (0-1).

Total manganese was detected at a concentration exceeding the applicable MAC criteria in sample 4013-4-01 (0-1).

The pH values were within the applicable range to be considered CCDD eligible. PID values were within the criteria to be accepted at a CCDD or USFO facility.

No other soil analyte investigated in accordance with the approved work plan exceeded any applicable criteria.

4.2.2.3 PESA Site 4013-COV-6 – Poor Clares Corpus Christi Monastery, 2111 S. Main Street, Rockford, Winnebago County, Illinois

Benzo(a)pyrene and Dibenzo(a,h)anthracene were detected at concentrations exceeding the applicable MAC criteria in sample 4013-6-01 (0-1).

Total, TCLP, and SPLP manganese were detected at concentrations exceeding the applicable MAC criteria in sample 4013-6-01 (0-1).

The pH values were within the applicable range to be considered CCDD eligible. PID values were within the criteria to be accepted at a CCDD or USFO facility.

No other soil analyte investigated in accordance with the approved work plan exceeded any applicable criteria.

4.2.2.4 PESA Site 4013-COV-7 – Vacant Land, 2100-2200 blocks of S. Main Street, Rockford, Winnebago County, Illinois

Benzo(a)pyrene was detected at a concentration exceeding the applicable MAC criteria in sample 4013-7-03 (0-1).

Total and SPLP manganese were detected at concentrations exceeding the applicable MAC criteria in samples 4013-7-01 (0-1) and 4013-7-02 (0-1).

The pH values were within the applicable range to be considered CCDD eligible. PID values were within the criteria to be accepted at a CCDD or USFO facility.

No other soil analyte investigated in accordance with the approved work plan exceeded any applicable criteria.

4.2.3 IDOT CONSTRUCTION ACTIVITIES AT PESA SITES

Construction activities expected to occur throughout the PESA Sites include shallow earth excavation in accordance with **Exhibit 1** and **Exhibit 2** and **Table 2-1**. Excavations associated with these proposed improvements are estimated to extend to a maximum depth of 1-foot bgs based on the contract documents. Observed areas of impact and COCs are identified in **Exhibit 2**. **Table 4-4** presents an estimated volume of impacted soil within proposed construction excavation areas at the PESA Site that will require proper handling and disposal if removed from the PESA Sites. H&H used volumes provided by IDOT District 2 and the Designer to estimate impacted soil quantities.

4.2.4 IDOT PROPERTY ACQUISITION AT PESA SITES

IDOT has provided information that indicates they are not planning ROW takes throughout the project. Estimated volumes of excavated soil, if not managed on site for the PESA Sites, include a total of 417 CY of material. Based on the analytical results, 56.8 CY of soil is classified as unrestricted. A total of 14.2 CY of soil is considered CCDD/USFO-eligible materials. A total of 8 CY of soil is eligible to be utilized on-site or within the right-of-way as embankment or fill, when suitable. If the soil cannot be utilized within the right-of-way, it shall be managed and disposed of at a landfill as a non-special waste (669.05(a)(1)). A total of 338 CY of soil shall be managed and disposed of at a landfill as non-special waste (669.05(a)(5)). Estimated excavation disposal volumes are outlined in **Table 4-4**.

5.0 CONCLUSIONS AND RECOMMENDATIONS (IDOT ROW)

H&H investigation has identified the presence of COCs in project area soils. The following sections summarize investigation findings and provide recommendations for classification and management of impacted soil based on comparison with MAC and TACO Tier 1 ROs. Soil associated with this project are eligible for CCDD/USFO disposal; A CCDD figure in **Appendix E** has been included depicting the nearest CCDD/USFO and/or landfill locations that accept CCDD material.

H&H's July 2025 field investigation was designed to provide an initial characterization of PESA Site conditions at pre-designated boring locations. The investigation, limited in terms of analytical parameters and the number of samples collected, was based on the known history of the properties and properties of native soils. Consequently, the findings and conclusions of the investigations are subject to revision should more site data become available.

An anthropogenic source evaluation and soil survey review was completed for the study area prior to the initiation of field activities, and anthropogenic sources of iron and/or manganese were not identified in the site vicinity. IDOT PSI PTB 160-022 WO #065 (January 2013), identified exceedances of both iron and manganese in the Site 4013-COV-2 (695V-66) and Site 4013-COV-7 (695V-66) Therefore, the analysis of Toxicity Characteristic Leaching Procedure/Synthetic Precipitation Leaching Procedure (TCLP/SPLP) iron and manganese was completed for Work Order 025.

Soil removed from outside H&H's investigation area that is observed to exhibit discoloration or odors indicative of contamination should be analyzed to determine the proper disposal classification.

5.1 ESTIMATED SOIL MANAGEMENT VOLUMES, COSTS, AND WASTE CHARACTERIZATION

The field sampling was completed according to the accepted workplan. The following sections detail the soil classifications and future management expectations for the contract work.

5.1.1 PESA SITES – SOIL MANAGEMENT

Soil near borings 4013-2-01 and 4013-2-02: Soil samples 4013-2-01 (0-1) and 4013-2-02 (0-1) exceeded an applicable criterion for organic and/or inorganic constituents and must be disposed of off-site as non-special waste in accordance with **Table 4-3**. Based on the data, the excavated soil is not eligible to be taken to a CCDD facility or USFO and shall be disposed of at a permitted landfill in accordance with Article 669.05(a)(5).

Soil near borings 4013-4-01: Soil samples 4013-4-01 (0-1) exceeded an applicable criterion for organic and inorganic constituents and must be disposed of off-site as non-special waste in accordance with **Table 4-3**. Based on the data, the excavated soil is not eligible to be taken to a CCDD facility or USFO and shall be disposed of at a permitted landfill in accordance with Article 669.05(a)(5).

Soil near boring 4013-6-01: Soil sample 4013-6-01 (0-1) exceeded an applicable criterion for organic and inorganic constituents and soils are eligible to remain on-site to be used within the ROW or may be disposed of off-site as non-special waste. Based on the data, the excavated soil is not eligible to be taken to a CCDD facility or USFO and shall be disposed at a permitted landfill in accordance with Article 669.05(a)(1).

Soil near boring 4013-7-03: Soil sample 4013-7-03 (0-1) exceeded an applicable criterion for organic constituents and are eligible to remain on-site to be used within the ROW or may be disposed of off-site as uncontaminated material in accordance with **Table 4-3**. Based on the data, the excavated soil is eligible to be taken to a CCDD facility or USFO and shall be disposed of in accordance with Article 669.05(a)(3).

5.1.2 4013-COV PESA AREA – SOIL VOLUME AND COST: CONSTRUCTION AREA

IDOT has provided information that indicates they are not planning ROW takes throughout the project. Estimated volumes of excavated soil, if not managed on site for the PESA Site, include a total of 417 CY of material. Based on the analytical results, 56.8 CY of soil is classified as unrestricted. A total of 14.2 CY of soil is considered CCDD/USFO-eligible materials. A total of 8 CY of soil is eligible to be utilized on-site or within the right-of-way as embankment or fill, when suitable. If the soil cannot be utilized within the right-of-way, it shall be managed and disposed of at a landfill as a non-special waste (669.05(a)(1)). A total of 338 CY of soil shall be managed and disposed of at a landfill as non-special waste (669.05(a)(5)). The estimated cost for off-site disposal from the proposed construction throughout the PESA Sites is $38,750 (**Table 5-1**), which includes generation of regulated substances plans and reports.

5.1.3 4013-COV PESA AREA – WASTE CHARACTERIZATION

Waste characterization samples were proposed to be collected per the approved final work plan, if field observations indicated the presence of gross contamination. Based on the field observations detailed in Section 4, a waste characterization sample was not collected from the PESA Site associated with PESA #4013-COV.

In some instances, waste characterization acceptance may be obtained using the results reported herein and additional waste characterization samples would not be required to be collected prior to the start of the construction work. The Contractor and/or user of this PSI shall contact the receiving facility to determine if waste characterization acceptance can be obtained using this PSI report analytical data and a Generator Knowledge Certification. If the PSI results are not able to be relied upon by the receiving facility, the Contractor and/or user of this PSI shall arrange to collect the necessary samples to achieve waste characterization acceptance.

In accordance with the Standard Specifications for Road and Bridge Construction Section 669.05, the Contractor shall make all arrangements for collection and analysis of landfill acceptance testing. The Contractor shall submit a written list form the landfill of the specific analytical parameters and analytical methods required by that facility. The Contractor shall collect and analyze the required number of samples for the parameters required by the landfill using a NELAP-certified laboratory registered with the State of Illinois.

5.2 SOIL MANAGEMENT AREAS AND APPLICABLE REGULATIONS

The following special provisions define the regulated substances and areas requiring management according to Article 669.05 of the SSRBC. Based on the complexity of this project, including the number of different stations and off-sets, regulated substance area depicted on the exhibits should be referenced to determine the correct alignment for field reference.

5.2.1 PESA SITE 4013-COV-2 – VACANT LAND, 1900-2000 BLOCKS OF S. MAIN STREET, ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

Station 370+10 to Station 371+78 (CL IL-2), 0 feet to 77 feet RT. The Engineer has determined this material from 0 to 1 feet bgs in the vicinity of the station and off-set meets the criteria of and shall be managed in accordance with Article 669.05(a)(5). Contaminants of concern sampling parameters include: SVOCs, Iron, Manganese, and Mercury.

5.2.2 PESA SITE 4013-COV-4 – COMMERCIAL BUILDING, 2019-2021 S. MAIN STREET, ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

Station 370+10 to Station 370+75 (IL 2), 0 feet to 80 feet LT. The Engineer has determined this material from 0 to 1 feet bgs in the vicinity of the station and off-set meets the criteria of and shall be managed in accordance with Article 669.05(a)(5). Contaminants of concern sampling parameters include: SVOCs and Manganese.

5.2.3 PESA SITE 4013-COV-6 – POOR CLARES CORPUS CHRISTI MONASTERY, 2111 S. MAIN STREET, ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

Station 369+37 to Station 370+10 (IL 2), 0 feet to 62 feet LT. The Engineer has determined this material from 0 to 1 feet bgs in the vicinity of the station and off-set meets the criteria of and shall be managed in accordance with Article 669.05(a)(1). Contaminants of concern sampling parameters include: SVOCs and Manganese.

5.2.4 PESA SITE 4013-COV-7 – VACANT LAND, 2100-2200 BLOCKS OF S. MAIN STREET, ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

Station 366+00 to Station 366+82 (IL 2), 0 feet to 72 feet RT. The Engineer has determined this material from 0 to 1 feet bgs in the vicinity of the station and off-set meets the criteria of and shall be managed in accordance with Article 669.05(a)(3). Contaminants of concern sampling parameters include: SVOCs.

5.3 RECOMMENDATIONS

5.3.1 ADDITIONAL INVESTIGATIONS

Based on site history, field observations, and analytical results, H&H does not recommend further investigation for this project. Soil in the project area has been characterized regarding IDOT construction activities. Additional sampling or consultation may be required should construction excavation activities extend beyond the previously investigated areas and/or if soil or groundwater is encountered that exhibits unexpected odor or discoloration indicative of contamination.

5.3.2 PREVENTION OF ACCELERATED CONTAMINANT MIGRATION

Soil containment and storm water runoff control measures are recommended to minimize the potential migration of contaminants from any impacted soils that may become stockpiled at the sites. If soil must be stockpiled, it should be stored in lined and covered roll-off boxes or segregated from other soils on storage pads designed to prevent migration of contaminants to non-impacted areas.

5.3.3 COMPARISON OF DETECTED SOIL CONCENTRATIONS WITH TACO TIER 1 REMEDIATION OBJECTIVES FOR CONSTRUCTION WORKER EXPOSURE

Analytical results from the proposed excavation areas are below the applicable TACO Tier 1 Remediation Objectives for Construction Worker Exposure, as described in **Table 4-2**. If soil unearthed during excavation activities exhibits PID readings, odors, or discoloration indicative of contamination, H&H recommends that the soil be sampled to determine appropriate worker protection measures during construction activities. The health and safety of construction workers are the sole responsibility of the construction contractor, and Occupational Safety and Health Administration (OSHA) regulations should be adhered to during all construction activities.

5.3.4 ELIGIBLE REGULATED SUBSTANCE MATERIAL FOR ON-SITE REUSE

Laboratory analytical results indicate much of the material proposed for this project is eligible to be reused on-site. The following volumes and associated 669 designations are eligible for re-use:

- 56.8 CY of soil is classified as unrestricted and considered eligible to be re-used on-site;
- 14.2 CY of soil is classified as 669.05 (a)(3) and considered eligible for CCDD/USFO disposal or to be re-used on-site; and
- 8 CY of soil is considered eligible for on-site reuse but shall be disposed of at a landfill if off-site disposal is required according to 669.05(a)(1).

6.0 ENDORSEMENTS

The scope and depth of this study are consistent with those proposed and accepted by the Illinois Department of Transportation (IDOT). The field observations and results reported herein are considered sufficient in detail and scope to form an informed and professional opinion as to the obvious potential environmental hazards along the Project Corridor. This assessment is complete and is believed to be accurate. Huff & Huff, Inc. cannot guarantee or warrant that the information provided is fully representative of all conditions across the entire Project Corridor.

Author: Date: August 25, 2025

Emily McGonigle, P.E.
Project Manager
State of Illinois License # 062-073704

Consultant Reviewer: Date: August 25, 2025

Shane Cuplin, P.G.
Associate Principal
State of Illinois License # 196-001279

Principal: Date: August 25, 2025

Jeremy J. Reynolds, P.G.
Sr. Project Manager/Associate Principal
State of Illinois License # 196-001170

TABLES

Table 2-1. Summary of Recognized Environmental Conditions, Planned Construction Activities, and Contaminants of Concern
207-054 WO #025
15th Avenue and Marchesano Drive, Rockford, Winnebago County, IL

PESA Site Name	Recognized Environmental Condtions (RECs)	Planned Construction Activities	Contaminants of Potential Concern**	Investigation Objectives/Rationale	Planned Property Acquisition	Planned Property Easment
Site 4013-COV-2 Vacant Land 1900-2000 blocks of S. Main Street, Rockford	Former USTs; potential UST(s); potential former chemical use; VOCs, SVOCs, and metals detected in previous PSI testing, , adjacent to SEMS Site (Southeast Rockford Groundwater Contamination Superfund Project)	Tree removal, adjacent roadway improvements	VOCs, SVOCs, Metals	Investigate the soil in the proposed construction area	No	No
4013-COV-4 Commercial Building 2019-2021 S. Main Street, Rockford	USTs; potential UST(s); potential former chemical use; VOCs, SVOCs, and metals detected in previous ISGS and PSI testing	Sidewalk improvements	VOCs, SVOCs, Metals	Investigate the soil in the proposed construction area	No	No
Site 4013-COV-6 Poor Clares Corpus Christi Monastery 2111 S. Main Street, Rockford	Potential AST; potential former chemical use	Sidewalk improvements	VOCs, SVOCs, Metals	Investigate the soil in the proposed construction area	No	No
4013-COV-7 Vacant Land 2100-2200 blocks of S. Main Street, Rockford	Adjacent to SEMS Site (Southeast Rockford Groundwater Contamination Superfund Project)	Tree removal, adjacent roadway improvements	VOCs, SVOCs, Metals	Investigate the soil in the proposed construction area	No	No

PESA - Preliminary Environmental Site Assessment
ROW - Right of Way
SVOC - Semi-Volatile Organic Compound
VOC - Volatile Organic Compound
**Refer to the Standard PSI Analytical Parameters (Version 2.0) for a list of chemicals analyzed as a part of this contract.

Table 3-1. Summary of Sampling and Analysis Program
207-054 WO #025
15th Avenue and Marchesano Drive, Rockford, Winnebago County, IL

Boring ID	Off-Set from Proposed Location	Boring Depth (feet)	Sample(s)	Matrix	Parameters**
Site 4013-COV-2 - Vacant Land					
4013-2-01	None	0-1'	4013-2-01 (0-1)	Soil	VOCs, SVOCs, Metals, TCLP/SPLP Metals, pH
4013-2-02	None	0-1'	4013-2-02 (0-1)	Soil	VOCs, SVOCs, Metals, TCLP/SPLP Metals, pH
Site 4013-COV-4 - Commercial Building					
4013-4-01	None	0-1'	4013-4-01 (0-1)	Soil	VOCs, SVOCs, Metals, TCLP/SPLP Metals, pH
Site 4013-COV-6 - Poor Clares Corpus Christi Monastery					
4013-6-01	None	0-1'	4013-6-01 (0-1)	Soil	VOCs, SVOCs, Metals, TCLP/SPLP Metals, pH
Site 4013-COV-7 - Vacant Land					
4013-7-01	None	0-1'	4013-7-01 (0-1)	Soil	VOCs, SVOCs, Metals, TCLP/SPLP Metals, pH
4013-7-02	None	0-1'	4013-7-02 (0-1)	Soil	VOCs, SVOCs, Metals, TCLP/SPLP Metals, pH
4013-7-03	None	0-1'	4013-7-03 (0-1)	Soil	VOCs, SVOCs, Metals, TCLP/SPLP Metals, pH

PESA - Preliminary Environmental Site Assessment
ROW - Right of Way
VOC - Volatile Organic Compound
SVOC - Semi-Volatile Organic Compound
**Refer to the Standard PSI Analytical Parameters (Version 2.0) for a list of chemicals analyzed as a part of this contract.

Table 4-1. Field Observations and Sampling Rationale
207-054 WO #025
15th Avenue and Marchesano Drive, Rockford, Winnebago County, IL

Boring ID	Range of PID Readings (ppm)	Depth Interval of Highest PID Readings (feet)	Observed Evidence of Potential Contamination	Depth of Interval(s) Sampled (feet bgs)	Rationale
Site 4013-COV-2 - Vacant Land					
4013-2-01	0.0	NA	NA	0-1	Sample Intervals were selected based on potential to be impacted.
4013-2-02	0.0	NA	NA	0-1	Sample Intervals were selected based on potential to be impacted.
Site 4013-COV-4 - Commercial Building					
4013-4-01	0.0	NA	NA	0-1	Sample Intervals were selected based on potential to be impacted.
Site 4013-COV-6 - Poor Clares Corpus Christi Monastery					
4013-6-01	0.0	NA	NA	0-1	Sample Intervals were selected based on potential to be impacted.
Site 4013-COV-7 - Vacant Land					
4013-7-01	0.0	NA	NA	0-1	Sample Intervals were selected based on potential to be impacted.
4013-7-02	0.0	NA	NA	0-1	Sample Intervals were selected based on potential to be impacted.
4013-7-03	0.0	NA	NA	0-1	Sample Intervals were selected based on potential to be impacted.

NA = Not Applicable

Table 4-2. Detected Soil Analytes and Comparison to Applicable Criteria
207-054 WO #025
15th Avenue and Marchesano Drive, Rockford, Winnebago County, IL

Sample ID	4013-2-01 (0-1)	4013-2-02 (0-1)	4013-4-01 (0-1)	4013-6-01 (0-1)	4013-7-01 (0-1)	4013-7-02 (0-1)	4013-7-03 (0-1)	CCDD Maximum Allowable Concentrations							TACO Remediation Objectives	
Sample Depth (ft)	0-1	0-1	0-1	0-1	0-1	0-1	0-1									
Sample Date	7/17/2025	7/17/2025	7/17/2025	7/17/2025	7/17/2025	7/17/2025	7/17/2025									
PID	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
Sample pH	8.71	8.79	8.04	7.99	8.48	8.65	8.29									
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil									
IDOT 669 Designation	669.05(a)(5)	669.05(a)(5)	669.05(a)(5)	669.05(a)(1)	Unrestricted	Unrestricted	669.05(a)(3)	Most Stringent Maximum Allowable Concentration[1]	Within Chicago Corporate Limits[2]	Within a Populated Area[2] in an MSA County[3] (excl. Chicago)	Within a MSA County[3]	Within a Populated Area[2] a non-MSA County[3]	Outside a Populated Area[2]	Within a non-MSA County[3]	Most Stringent TACO Tier 1 Construction Worker Exposure Objective[4]	Most Stringent TACO Tier 1 Residential Objective[5] and Groundwater Protection (TCLP/SPLP)[6]
VOCs (mg/kg)																
Tetrachloroethene	<0.005	**0.0173**	<0.005	<0.005	<0.005	<0.005	<0.005	0.06	NA	NA	NA	NA	NA	NA	28	11
SVOCs (mg/kg)																
Anthracene	**0.489**	<0.33	**0.625**	<0.33	<0.33	<0.33	<0.33	12,000	NA	NA	NA	NA	NA	NA	610,000	23,000
Benzo(a)anthracene	**1.76**	**0.599**	**2.22**	**0.389**	<0.33	<0.33	<0.33	0.9	1.1	1.8	NA	0.9	0.9	NA	170	0.9
Benzo(a)pyrene	**1.74**	**0.604**	**2.05**	**0.484**	<0.09	<0.09	**0.188**	0.09	1.3	2.1	NA	0.98	0.09	NA	17	0.09
Benzo(b)fluoranthene	**2.52**	**0.841**	**2.71**	**0.741**	<0.33	<0.33	<0.33	0.9	1.5	2.1	NA	0.9	0.9	NA	170	0.9
Benzo(k)fluoranthene	**0.789**	<0.33	**0.964**	<0.33	<0.33	<0.33	<0.33	9	NA	NA	NA	NA	NA	NA	1,700	9
Benzo(ghi)perylene	**1.4**	**0.48**	**1.51**	**0.463**	<0.33	<0.33	<0.33	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	<0.33	**263**	<0.33	<0.33	<0.33	<0.33	<0.33	46	NA	NA	NA	NA	NA	NA	410	46
Chrysene	**1.8**	**0.613**	**2.2**	**0.497**	<0.33	<0.33	<0.33	88	NA	NA	NA	NA	NA	NA	17,000	88
Dibenzo(a,h)anthracene	**0.326**	**0.118**	**0.374**	**0.104**	<0.09	<0.09	<0.09	0.09	0.2	0.42	NA	0.15	0.09	NA	17	0.09
Fluoranthene	**4.27**	**1.21**	**4.8**	**0.863**	<0.33	<0.33	**0.422**	3,100	NA	NA	NA	NA	NA	NA	82,000	3,100
Indeno(1,2,3-cd)pyrene	**1.55**	**0.527**	**1.7**	**0.503**	<0.33	<0.33	<0.33	0.9	0.9	1.6	NA	0.9	0.9	NA	170	0.9
Phenanthrene	**2.4**	**0.484**	**2.41**	<0.33	<0.33	<0.33	<0.33	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	**3.08**	**0.953**	**3.72**	**0.662**	<0.33	<0.33	<0.33	2,300	NA	NA	NA	NA	NA	NA	61,000	2,300
Inorganics (mg/kg)																
Arsenic	**3.1**	**2.9**	**4.5**	**4.1**	**3.5**	**4.8**	**2.4**	11.3	NA	NA	13	NA	NA	11.3	61	13
Boron	**6.7**	<5.0	**7.1**	<5.0	<5.0	<5.0	<5.0	40	NA	NA	NA	NA	NA	NA	41,000	16,000
Barium	**74.7**	**104**	**110**	**106**	**188**	**132**	**38**	1,500	NA	NA	NA	NA	NA	NA	14,000	5,500
Cadmium	<0.5	**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	5.2	NA	NA	NA	NA	NA	NA	200	78
Chromium	**20.7**	**11.9**	**9.5**	**13**	**13.2**	**12.5**	**7.0**	21	NA	NA	NA	NA	NA	NA	690	230
Cobalt	**3.8**	**3.7**	**5.5**	**7.9**	**8.1**	**7.2**	**2.2**	20	NA	NA	NA	NA	NA	NA	12,000	4,700
Copper	**40.1**	**62.5**	**10.4**	**10.6**	**10.9**	**9.4**	**11**	2,900	NA	NA	NA	NA	NA	NA	8,200	2,900
Cyanide	<0.10	<0.10	<0.10	<0.10	**0.14**	<0.10	<0.10	40	NA	NA	NA	NA	NA	NA	4,100	1,600
Iron	**16,100**	**9,340**	**12,000**	**14,000**	**13,700**	**14,500**	**8,330**	15,000	NA	NA	15,900	NA	NA	15,000	NA	NA
Lead	**93.9**	**90**	**40.7**	**26.2**	**13.3**	**13.9**	**29.1**	107	NA	NA	NA	NA	NA	NA	700	400
Magnesium	**19,100**	**18,400**	**13,700**	**10,200**	**2,900**	**1,820**	**45,600**	325,000	NA	NA	NA	NA	NA	NA	730,000	325,000
Manganese	**667**	**362**	**659**	**661**	**979**	**716**	**269**	630	NA	NA	636	NA	NA	630	4,100	1,600
Mercury	**0.19**	**0.14**	<0.05	<0.05	**0.07**	<0.05	<0.05	0.89	NA	NA	NA	NA	NA	NA	0.1	10
Nickel	**16.2**	**10.3**	**11**	**12.2**	**11.7**	**10.9**	**6.5**	100	NA	NA	NA	NA	NA	NA	4,100	1,600
Silver	<0.2	**1.5**	<0.2	<0.2	<0.2	<0.2	<0.2	4.4	NA	NA	NA	NA	NA	NA	1,000	390
Vanadium	**15**	**14.5**	**19.5**	**25.8**	**24.6**	**25.6**	**10.3**	550	NA	NA	NA	NA	NA	NA	1,400	550
Zinc	**123**	**123**	**75.7**	**44**	**55.1**	**48.1**	**32.3**	5,100	NA	NA	NA	NA	NA	NA	61,000	23,000
TCLP Inorganics (mg/L)																
Manganese	NA	NA	NA	**0.17**	<0.10	**0.15**	NA	0.15								
SPLP Inorganics (mg/kg)																
Manganese	NA	NA	NA	**0.31**	**0.5**	**0.71**	NA	0.15								

Notes:

NA = Not available

ND = Not detected above laboratory reporting limit

NT = Not tested

mg/kg = Milligrams per kilogram

mg/L = Milligrams per liter

TCLP = Toxicity Characteristic Leaching Procedure

SPLP = Synthetic Precipitation Leaching Procedure

MAC = Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill Material at Regulated Fill Operations (35 IAC 1100. Subpart F).

TACO = Tiered Approach to Corrective Action Objectives (35 IAC 742)

Metals exceed Totals but not TCLP and SPLP; or metals exceed TCLP or SPLP but not both

Metals exceed TCLP and SPLP but not Totals; or Arsenic is above 11.3 but below 13

VOCs or SVOCs exceedances; limited CCDD disposal availability

Greater than TACO Construction Worker Exposure Objectives

Non-special Waste - Greater than all MACs, Greater than most stringent TACO Tier 1 Criteria; Metals exceed Totals, TCLP, and SPLP; Metals exceed TACO Residential and not considered background; pH outside of the acceptable range (6.25 to 9.0)

Greater than TACO Residential Limit

Classification	General Use (Refer to Article 669.05 for full descriptions)
(a)(1)	ROW or off-site as non-special waste
(a)(2)	ROW or CCDD eligible within an MSA County
(a)(3)	ROW or CCDD eligible within an MSA County excluding Chicago or Chicago corporate limits
(a)(4)	ROW or CCDD eligible within an MSA County excluding te City of Chicago
(a)(5)	Non-special waste only, dispose off-site only
(a)(6)	Special and/or Hazardous waste (per analytical results), dispose off-site only
(b)(1)	ROW or off-site via Article 202.03
(b)(2)	ROW or off-site via Article 202.03
(c)	ROW or off-site via Article 202.03
Unrestricted	ROW or off-site without restrictions
Unrestricted	ROW or off-site without restrictions

Applicable Screening Criteria

[1] Most stringent MAC value (35 IAC (1100.605(e))

[2] Metropolitan Statistical Areas (MSA) as defined in 35 IAC 742, Appendix A, Table G.

[3] Populated Area as defined in 35 IAC 742.200.

[4] Most Stringent TACO Tier 1 Construction Worker Exposure Objective (35 IAC 742. Appendix B. Table B)

[5] Most Stringent TACO Tier 1 Residential Objective (35 IAC 742. Appendix B. Table A)

[6] TACO Tier 1 Soil to Groundwater TCLP/SPLP Objective (35 IAC 742. Appendix B. Table A)

Table 4-3. Summary of Soil and Groundwater Impacts and Contaminants of Concern
207-054 WO #025
15th Avenue and Marchesano Drive, Rockford, Winnebago County, IL

Boring ID	Off-Set from Sample Location	Sample Depth (feet)	pH	PID Reading(s)	Contaminants of Concern Above Total, TCLP, and SPLP Criteria	Contaminants of Concern Above TCLP and SPLP Criteria	Contaminants of Concern Above TACO Exposure Objectives	Contaminants of Concern Above One or More Location Specific MACs	Off-Site Management		
									Eligible for CCDD or USFO?	Classification	IDOT 669 Designation
Site 4013-COV-2 - Vacant Land											
4013-2-01 (0-1)	None	0-1	8.71	0.0	None	None	Benzo(b)fluoranthene, Mercury	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene, Iron, Manganese	No	Non-Special	669.05(a)(5)
4013-2-02 (0-1)	None	0-1	8.79	0.0	None	None	bis(2-Ethylhexyl)phthalate, Mercury	Benzo(a)pyrene, bis(2-Ethylhexyl)phthalate, Dibenzo(a,h)anthracene	No	Non-Special	669.05(a)(5)
Site 4013-COV-4 - Commercial Building											
4013-4-01 (0-1)	None	0-1	8.04	0.0	None	None	Benzo(a)anthracene, Benzo(b)fluoranthene, Indeno(1,2,3-cd)pyrene	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene, Manganese	No	Non-Special	669.05(a)(5)
Site 4013-COV-6 - Poor Clares Corpus Christi Monastery											
4013-6-01 (0-1)	None	0-1	7.99	0.0	None	None	None	Benzo(a)pyrene, Dibenzo(a,h)anthracene, Manganese	No	Non-Special	669.05(a)(1)
Site 4013-COV-7 - Vacant Land											
4013-7-01 (0-1)	None	0-1	8.48	0.0	None	None	None	None	Yes	Unrestricted Soil	Unrestricted
4013-7-02 (0-1)	None	0-1	8.65	0.0	None	None	None	None	Yes	Unrestricted Soil	Unrestricted
4013-7-03 (0-1)	None	0-1	8.29	0.0	None	None	None	Benzo(a)pyrene	Yes	CCDD-Eligible	669.05(a)(3)

NA = Not Applicable
PID = Photo-ionization Detector
TACO = Tiered Approach to Corrective Action Objectives (35 IAC 742)
MAC = Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill Material at Regulated Fill Operations (35 IAC 1100. Subpart I
CCDD = Clean Construction or Demolition Debris
USFO = Uncontaminated Soil Fill Operation

TCLP = Toxicity characteristics leaching procedure.
SPLP = Synthetic precipitation leaching procedure.

Classifications

"Unrestricted Soil" - Soils that contain constituent concentrations below the most stringent MACs may be managed off site as "uncontaminated soil" pursuant to 35 IAC 1100. Uncontaminated soil with a pH ranged of 6.25 to 9.0 and no PID readings above background levels may be managed off site to a CCDD or USFO.
"CCDD Eligible" - May be managed onsite as a fill or off-site at a CCDD or USFO facility.
"Non-Special" - May be managed to a licensed landfill/disposal facility but may not be left on-site or transported to a CCDD or USFO facility.
"Article 202.03" - Impacted soil may be managed onsite as fill or off-site any uncontaminated fill site; however, soil is not eligible for CCDD or USFO disposal.

Classification	**General Use (Refer to Article 669.05 for full descriptions)**
(a)(1)	ROW or off-site as non-special waste
(a)(2)	ROW or CCDD-eligible within an MSA County
(a)(3)	ROW or CCDD-eligible within an MSA County excluding Chicago or Chicago corporate limits
(a)(4)	ROW or CCDD-eligible within an MSA County excluding Chicago
(a)(5)	Non-special waste only, dispose off-site only
(a)(6)	Special and/or Hazardous waste (per analytical results), dispose off-site only
(b)(1)	ROW or off-site via Article 202.03
(b)(2)	ROW or off-site via Article 202.03
(c)	ROW or off-site via Article 202.03
Unrestricted	ROW or off-site without restrictions
(d)	Groundwater

Table 4-4. Estimated Volumes of Impacted Soil
207-054 WO #025
15th Avenue and Marchesano Drive, Rockford, Winnebago County, IL

Boring ID	Sample Depth	Impacted Stationing Along	Estimated Volume and Classification of Impacted Soil (cubic yards) Standard Specifications, Article 669.05*							
			(a)(1)	(a)(2)	(a)(3)	(a)(4)	(a)(5)	(b)(1/2)	(c)	Unrestricted
Site 4013-COV-2 - Vacant Land										
4013-2-01 (0-1)	0-1	Station 371+58 to Station 371+78 (IL 2)	--	--	--	--	38.2	--	--	--
4013-2-02 (0-1)	0-1	Station 370+10 to Station 371+58 (IL 2)	--	--	--	--	282.8	--	--	--
		Site Totals	**0.0**	**0.0**	**0.0**	**0.0**	**321.0**	**0.0**	**0.0**	**0.0**
Site 4013-COV-4 - Commercial Building										
4013-4-01 (0-1)	0-1	Station 370+10 to Station 370+75 (IL 2)	--	--	--	--	17.0	--	--	--
		Site Totals	**0.0**	**0.0**	**0.0**	**0.0**	**17.0**	**0.0**	**0.0**	**0.0**
Site 4013-COV-6 - Poor Clares Corpus Christi Monastery										
4013-6-01 (0-1)	0-1	Station 369+37 to Station 370+10 (IL 2)	8.0	--	--	--	--	--	--	--
		Site Totals	**8.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Site 4013-COV-7 - Vacant Land										
4013-7-01 (0-1)	0-1	Station 368+07 to Station 370+10 (IL 2)	--	--	--	--	--	--	--	35.2
4013-7-02 (0-1)	0-1	Station 366+82 to Station 368+07 (IL 2)	--	--	--	--	--	--	--	21.6
4013-7-03 (0-1)	0-1	Station 366+00 to Station 366+82 (IL 2)	--	--	14.2	--	--	--	--	--
		Site Totals	**0.0**	**0.0**	**14.2**	**0.0**	**0.0**	**0.0**	**0.0**	**56.8**
		Total Volume of Impacted Soil in Construction Zone:	**8.0**	**0.0**	**14.2**	**0.0**	**338.0**	**0.0**	**0.0**	**56.8**

* Estimated volume not tested by H&H but provided by IDOT. Excavation estimate provided by the IDOT District.

Table 5-1. Remediation Cost Associated with IDOT's Construction Project
207-054 WO #025
15th Avenue and Marchesano Drive, Rockford, Winnebago County, IL

Site	Pay Item/Cost Per Unit																				Total Cost (Rounded to nearest dollar)*
	SSRBC Article 669.11 Regulated Substance Pre-Construction Plan[a]		SSRBC Article 669.11 Regulated Substance Monitoring[a]		SSRBC Article 669.11 Regulated Substance Final Construction Report[a]		SSRBC Article 669.05 Non-Special Waste Disposal $75.00 per Cubic Yard (CY)				SSRBC Article 669.05 Non-Special Waste Disposal $75.00 per Cubic Yard (CY)**		SSRBC Article 202.03 Uncontaminated/Not CCDD Eligible				Unrestricted		Soil Disposal Analysis		
							669.05(a)(1)[b]		669.05(a)(5)[b]		669.05(a)(2)/(3)/(4)[c]		669.05(b)(1)/(2)[d]		669.05(c)[d]						
	Quantity	Cost	Days	Cost	Quantity	Cost	CY	Cost	CY	Cost	CY	Cost	CY	Cost	CY	Cost	Quantity	Cost	Quantity	Cost	
Site 4013-COV-2 - Vacant Land	0.25	$ 875	1	$ 1,200	0.25	$ 875	0.0	$ -	321.0	$ 24,075	0.0	NA	0.0	NA	0.0	NA	0.0	NA	1	$ 1,000	$ 28,025
Site 4013-COV-4 - Commercial Building	0.25	$ 875	1	$ 1,200	0.25	$ 875	0.0	$ -	17.0	$ 1,275	0.0	NA	0.0	NA	0.0	NA	0.0	NA	0**	$ -	$ 4,225
Site 4013-COV-6 - Poor Clares Corpus Christi Monastery	0.25	$ 875	1	$ 1,200	0.25	$ 875	8.0	$ 600	0.0	$ -	0.0	NA	0.0	NA	0.0	NA	0.0	NA	0**	$ -	$ 3,550
Site 4013-COV-7 - Vacant Land	0.25	$ 875	1	$ 1,200	0.25	$ 875	0.0	$ -	0.0	$ -	14.2	NA	0.0	NA	0.0	NA	56.8	NA	0	$ -	$ 2,950
Project Totals:	**1**	$ 3,500	**4**	$ 4,800	**1**	$ 3,500	**8**	$ 600	**338**	$ 25,350	**14**	$ -	**0**	$ -	**0**	$ -	**57**	$ -	**1**	$ 1,000	**$ 38,750**

Notes:

[a] Standard Specification for Road and Bridge Construction (SSRBC) Article 669.11 Basis of Payment - (site health and safety plan, site contamination operation plan, erosion control plan are considered part of the Regulated Substance Pre-Construction Plan (BDE 2730). Regulated Substance Monitoring is to be recorded on the BDE 2732. The Regulated Substance Final Construction Report is to be reported on BDE 2733. Disposal monitoring oversight estimate (days) is based on documentation provided by the District.

[b] Material must be managed to a non-special waste disposal facility. Transportation costs are based on generic 100-mile distance facility and a truck capacity of 14 cubic yards.

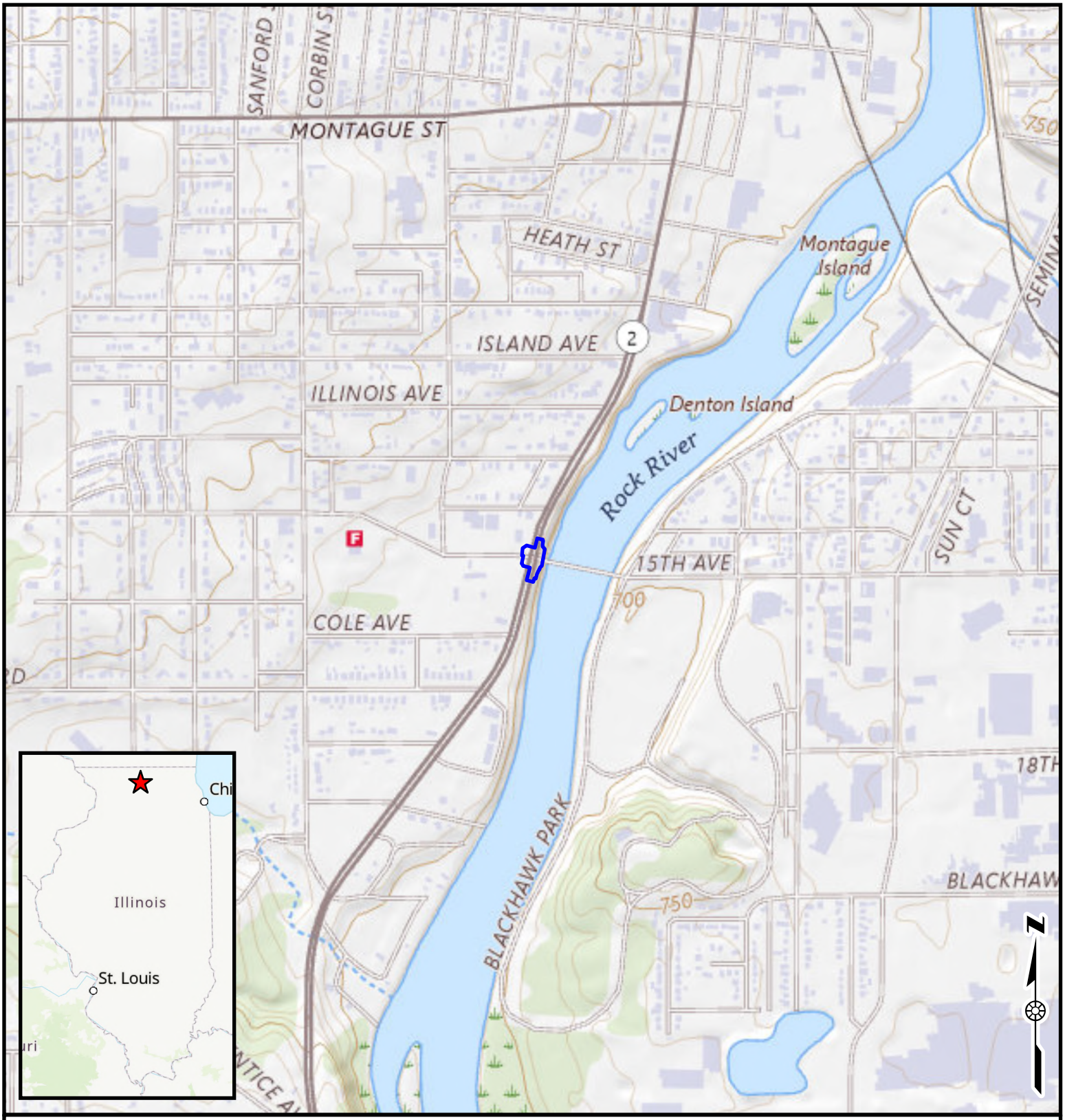
[c] Soil in this category shall be managed at a CCDD facility or USFO as uncontaminated soil.

[d] Disposal costs are not provided. Soil in this category may be managed as on-site as uncontaminated soil, but not at a CCDD facility or USFO due to pH outside of the acceptable range.

* Estimate is based on quantities provided by the District on BDE 2735.

** Due to the proximity of the work and similar analytical results across the project area, one waste characterization sample is recommended for this project.

EXHIBITS



0 600 1,200 2,400 Feet

Legend

Project Area

EXHIBIT 1
SITE LOCATION MAP

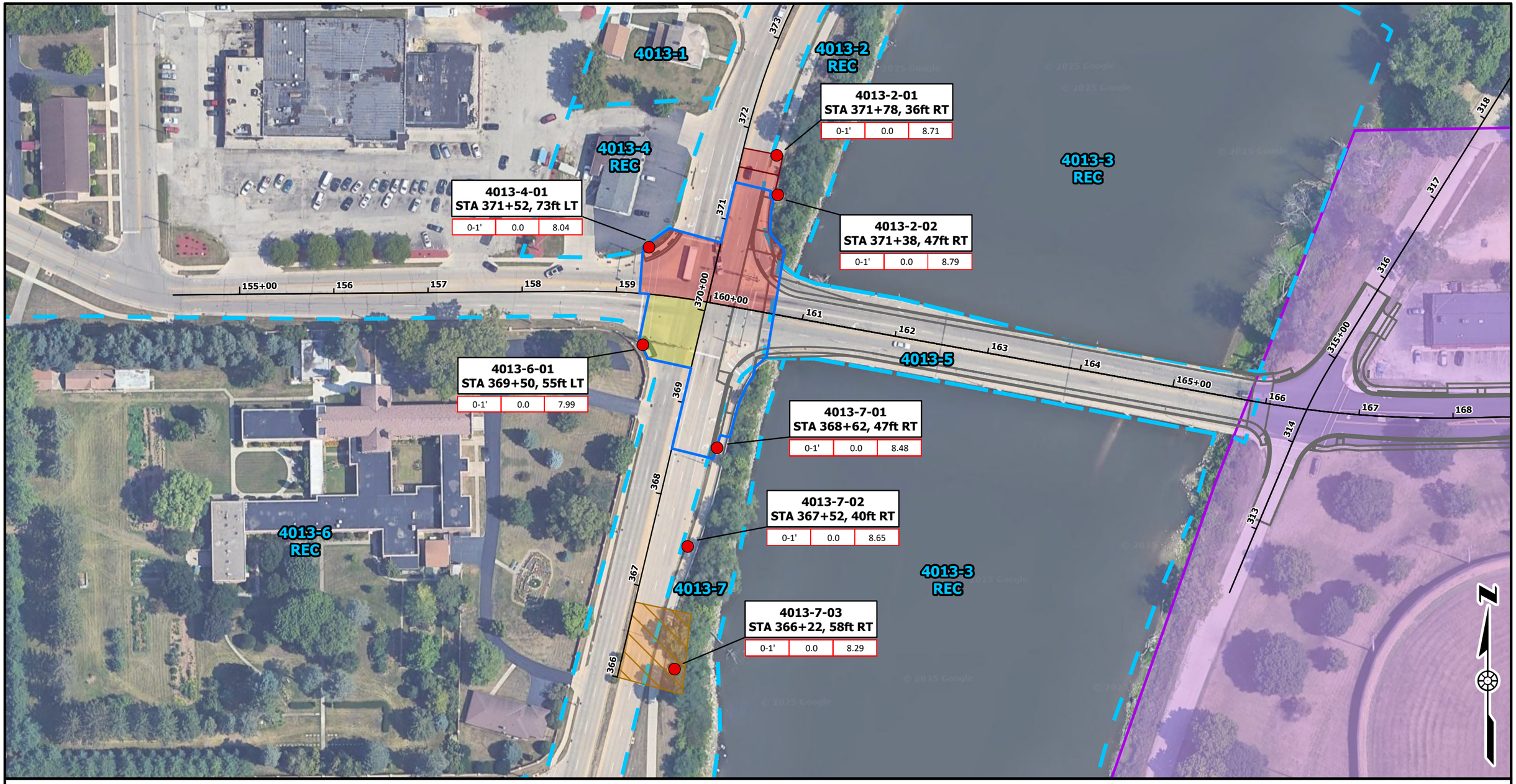
DESIGNED	EM
DRAWN	EM
CHECKED	SC
APPROVED	SC
DATE	08/13/25

Huff & Huff incorporated
915 HARGER RD, SUITE 330
OAK BROOK, IL 60523
PH: (630) 684-9100

Location: 15th Avenue and Marchesano Drive, West Street to Orange Street
Rockford, Winnebago County, IL

BDE Sequence No: 23305	Contract No: Not Listed
IDOT Job No: Not Listed	ISGS PESA No: 4013-COV
Route: FAU 5082	City / County: Rockford / Winnebago

PTB 207-054 (H&H-3) / WO No. 25



Legend

- Project Area
- PESA Sites
- Design Plans
- Approximate Superfund Site Boundaries
- Boring Location
- 669.05(a)(1)
- 669.05(a)(3)
- 669.05(a)(5)

PID	pH
Depth	PID	pH

PID Exceeds background value or pH is outside acceptable range for CCDD disposal

0 50 100 200 Feet

DESIGNED	EM
DRAWN	EM
CHECKED	SC
APPROVED	SC
DATE	08/13/25

Huff & Huff incorporated
A Subsidiary of GZA GeoEnvironmental, Inc.

915 HARGER RD
SUITE 330
OAK BROOK, IL 60523
PH: (630) 684-9100

EXHIBIT 2
REGULATED SUBSTANCE MANAGEMENT AREAS

Location: 15th Avenue and Marchesano Drive, West Street to Orange Street
Rockford, Winnebago County, IL

BDE Sequence No: 23305	Contract No: Not Listed
IDOT Job No: Not Listed	ISGS PESA No: 4013-COV
Route: FAU 5082	City / County: Rockford / Winnebago

PTB 207-054 (H&H-3) / WO No. 25

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Legend

- Project Area
- PESA Sites
- Design Plans
- Boring Location
- GPR Anomaly

0 10 20 40 Feet

DESIGNED	EM
DRAWN	EM
CHECKED	SC
APPROVED	SC
DATE	08/13/25

Huff & Huff incorporated
A Subsidiary of GZA GeoEnvironmental, Inc.

915 HARGER RD
SUITE 330
OAK BROOK, IL 60523
PH: (630) 684-9100

EXHIBIT 3
GRP ANOMALY MAP

Location: 15th Avenue and Marchesano Drive, West Street to Orange Street
Rockford, Winnebago County, IL

BDE Sequence No: 23305	Contract No: Not Listed
IDOT Job No: Not Listed	ISGS PESA No: 4013-COV
Route: FAU 5082	City / County: Rockford / Winnebago

PTB 207-054 (H&H-3) / WO No. 25

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APPENDIX A

BDE 2735

ISGS PESA 4013-COV

Illinois Department of Transportation

PESA Response / PSI Work Order

District	County	Municipality	Route	Marked	Street	Project Location To/From	Work Description
2	Winnebago	Rockford	FAU 5082		15th Avenue, Marchesano Drive	West Street to Orange Street	Bridge Replacement

Requesting Agency	Letting Agency	IDOT Job Number	Contract Number	Section Number	BDE Sequence Number	ISGS PESA Number	ISGS PESA Date	Anticipated Letting Date	PS&E Date	Submittal to BDE Date
Local	DOH		22004683-00	19-00631-00-BR	23305	4013-COV	01/13/21	01/16/26	09/29/25	

Form Preparer - Title, Organization, Phone	Others Involved (Names, Title, Organization, Phone)	Additional Information
Sean Eulitz, Engineer, CMT, (630-907-7077)	Andrew Schlichting, P.E., P.T.O.E., Project Manager, CMT (630-907-7034	

Property Identification		BDE/D1 USE ONLY FOR RMP PROJECTS		RECs		Regulatory Issues		ROW Acquisition or Easement				Proposed Construction			Estimated Volume of Soil Excavation (CY)	Estimated Days of Excavation (CD)	Notes
Parcel Name, as identified in the PESA, (include street address when available)	Site ID PESA#	BDE/D1 Classification	BDE/D1 Notes	(Yes/ No)	If Yes, describe RECs	Possible UST(s)	Regulatory Program	ROW Partial Take	ROW Full Take	Temp Esmnt	Perm Esmnt	Construction Activity on or adjoining (list all)	Stationing (From / To) (include off-sets)	Max Depth of Excavation (feet)			
Vacant land	4013-COV-2			Yes	Former USTs; potential UST(s); potential former chemical use; VOCs, SVOCs, and metals	Yes	UST	No	No	No	No	tree removal, adjacent roadway improvements	160+47.84, 120.33' LT to 161+23.58, 291.85' LT	1	321.0		
Rock River	4013-COV-3			Yes	Non-attainment of water quality	No		No	No	No	No	bridge removal and replacement	160+66.30 to 165 +86.69	0	0.0		
Commercial building	4013-COV-4			Yes	USTs; potential UST(s); potential former chemical use; VOCs, SVOCs, and metals; potential ACM and lead paint	Yes	Other	No	No	No	No	sidewalk improvements	159+24.64, 43.58' LT 159+60.86, 67.09' LT	1	17.0		
Poor Clares Corpus Christi Monastery	4013-COV-6			Yes	Potential AST; potential former chemical use; potential ACM and lead paint	No		No	No	No	No	sidewalk improvements	159+27.36. 52.88' RT 159+49.72, 63.83' RT	1	8.0		
Vacant Land	4013-COV-7			No		No		No	No	No	No	tree removal, adjacent roadway improvements	sta 160+45.86, 162.49' RT to sta 160 +74.17, 53.60' RT	1	71.0		
Residential	4013-COV-1			No	Potential transformers; potential ACM and lead paint	No		No	No	No	No	N/A	N/A	0	0.0		
Bridge	4013-COV-5			No	Potential ACM	No		No	No	No	No	bridge removal and replacement	160+66.30 to 165 +86.69	31	37,697.0		
Residence	4013-COV-8			No	Potential ACM and lead paint	No		No	No	No	No	N/A	N/A	0	0.0		
Commercial Building	4013-COV-A			No	BOL	No		No	No	No	No	N/A	N/A	0	0.0		
ROW	4013-COV-B			No	IEMA	No		No	No	No	No	N/A	N/A	0	0.0		
														Total Estimated Yards	38,114.0		

Unprotect

Highway Authority Agreements (HAA) within Construction Area

PESA Site Number	Corresponding HAA Number(s)
-	

Additional information that could be used to help refine the soil management strategy

Is the project expected to be a net ☐ Importer ☒ Exporter of soil? Estimated Volume: 417.0

Design Contact Name: Sean Eulitz | Email: seulitz@cmtengr.com | Phone: (630) 907-7077

If BDE/D1 determines that suitable excavated material can be reused within the right-of-way in accordance with Section 669.05 of the Standard Specifications for Road and Bridge Construction (SSRBC), is space available within the right-of-way to use the material as fill or embankment? ☒ Yes ☐ No

Checked By | Date

If yes, attach a map illustrating the proposed re-use area within the right-of-way.

Notes

IDOT Sequence #: 23305 **ISGS: 4013-COV**
IDOT Job #: NA **IDOT District #: 2**

PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT

FINAL REPORT

DATE: January 13, 2021

IDOT DESIGN DATE: September 1, 2021

SURVEY TARGET DATE: February 19, 2021

DATE REQUEST RECEIVED: August 20, 2020

LOCATION: FAU 5082 (15th Avenue), IL 2 to Nelson Boulevard, Rockford, Winnebago County; Rockford North and Rockford South quadrangles (USGS 7.5-minute topographic maps), T44N, R1E, Sections 27 and 34.

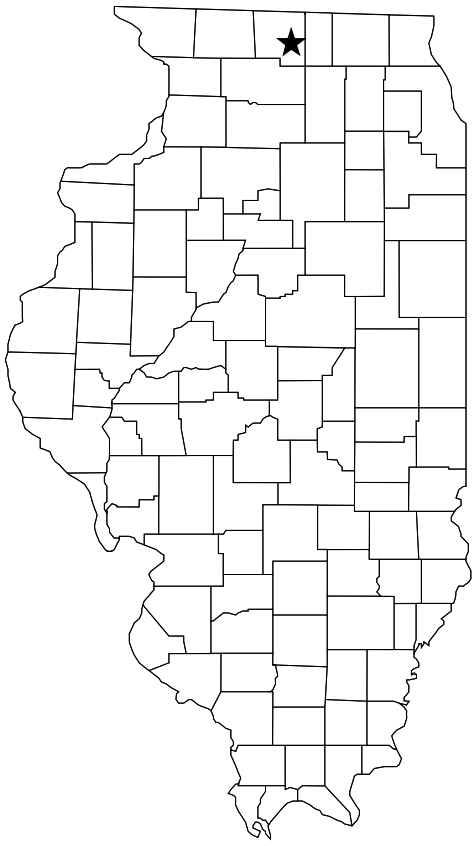


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GLOSSARY OF ACRONYMS

AAI	-	All Appropriate Inquiries
ACM	-	asbestos-containing material
AST	-	aboveground storage tank
ASTM	-	American Society for Testing and Materials
AUL	-	activity and use limitation (includes institutional controls, engineered barriers, and HAAs)
bgs	-	below ground surface
BOL	-	Bureau of Land (IEPA)
BTEX	-	benzene, toluene, ethylbenzene, and total xylene
CDPH	-	Chicago Department of Public Health
CCDD	-	Clean construction and demolition debris
CERCLIS	-	Comprehensive Environmental Response, Compensation, and Liability Information System
CTA	-	Chicago Transit Authority
ERNS	-	Emergency Response Notification System
FEMA	-	Federal Emergency Management Agency
FHWA	-	Federal Highway Administration
FOIA	-	Freedom of Information Act
GIS	-	Geographic Information System
GRO	-	Groundwater Remediation Objective
HAA	-	Highway Authority Agreement
IDNR	-	Illinois Department of Natural Resources
IDOT	-	Illinois Department of Transportation
IEMA	-	Illinois Emergency Management Agency
IEPA	-	Illinois Environmental Protection Agency
IMD	-	Illinois Manufacturers Directory
ISGS	-	Illinois State Geological Survey
ISWS	-	Illinois State Water Survey
LUST	-	leaking underground storage tank
µg/kg	-	micrograms per kilogram (ppb)
µg/l	-	micrograms per liter (ppb)
mg/kg	-	milligrams per kilogram (ppm)
mg/l	-	milligrams per liter (ppm)
M.M.	-	mile marker
MOU	-	memorandum of understanding
M.P.	-	mile post
MSSA	-	Mahomet Sole Source Aquifer
MTBE	-	methyl tertiary butyl ether
NFR	-	No Further Remediation
NPL	-	National Priorities List
NRCS	-	Natural Resources Conservation Service
OER	-	Office of Emergency Response (IEPA)
OSFM	-	Office of the State Fire Marshal
PAA	-	Permit Access Agreement
PAH/PNA	-	polynuclear aromatic hydrocarbon
PCB	-	polychlorinated biphenyl
PESA	-	Preliminary Environmental Site Assessment
P.G.	-	Professional Geologist
ppb	-	parts per billion (equivalent to µg/kg for solids, and µg/l in liquids)
ppm	-	parts per million (equivalent to mg/kg in solids, and mg/l in liquids)
PRP	-	Potentially Responsible Party
PSI	-	Preliminary Site Investigation
RCRA	-	Resource Conservation and Recovery Act
REC	-	recognized environmental condition
ROW	-	right-of-way
SEMS	-	Superfund Enterprise Management System
SGRO	-	Soil Gas Remediation Objective
SIC	-	Standard Industrial Classification
SPLP	-	synthetic precipitation leaching procedure
SRO	-	Soil Remediation Objective
SRP	-	Site Remediation Program
SSTS	-	Section Seven Tracking System (USEPA)
SVOC	-	semi-volatile organic compound
TACO	-	Tiered Approach to Corrective Action Objectives (IEPA)
TCLP	-	toxicity characteristic leaching procedure
TPH	-	total petroleum hydrocarbons
TRI	-	Toxics Release Inventory
UIC	-	Underground Injection Control (IEPA)
USDA	-	United States Department of Agriculture
USEPA	-	United States Environmental Protection Agency
USGS	-	United States Geological Survey
UST	-	underground storage tank
VOC	-	volatile organic compound

EXECUTIVE SUMMARY

This report presents the results of an environmental site assessment for the improvements to IL 2 from south of Indiana Avenue to Cole Avenue, Rockford, Winnebago County. This report was prepared on behalf of the Illinois Department of Transportation (IDOT) by the Illinois State Geological Survey (ISGS).

The following sites were examined for this project. The tables below list sites along the project for which recognized environmental conditions (RECs)* were identified for each address or address range (Table 1); sites along the project for which only de minimis conditions were identified (Table 2); sites along the project for which no RECs or de minimis conditions were identified (Table 3); and sites adjoining but not on the project that were identified on environmental databases (Table 4). Further investigation of sites with RECs may be desired.

Table 1. The following sites along the project were determined to contain RECs:

Property name IDOT parcel #	ISGS site #	REC(s), including de minimis conditions	Regulatory database(s)	Land use
Vacant land NA	4013-COV-2	Former USTs; potential UST(s); potential former chemical use; VOCs, SVOCs, and metals	UST	Vacant
Rock River NA	4013-COV-3	Non-attainment of water quality	None	River
Commercial building NA	4013-COV-4	USTs; potential UST(s); potential former chemical use; VOCs, SVOCs, and metals; potential ACM and lead paint	Municipal	Commercial
Poor Clares Corpus Christi Monastery NA	4013-COV-6	Potential AST; potential former chemical use; potential ACM and lead paint	None	Religious

Table 2. The following sites along the project were determined to contain de minimis conditions only:

Property name IDOT parcel #	ISGS site #	De minimis condition(s)	Land use
Residences NA	4013-COV-1	Potential transformers; potential ACM and lead paint	Residential
Bridge NA	4013-COV-5	Potential ACM	Transportation

Residence NA	4013-COV-8	Potential ACM and lead paint	Residential

Table 3. The following site along the project was determined not to contain RECs or de minimis conditions:

Property name IDOT parcel #	ISGS site #	Land use
Vacant land NA	4013-COV-7	Vacant

Table 4. The following additional sites, adjoining but not on the project, were identified on environmental databases:

Property name	ISGS site #	Regulatory database(s)	Land use
Commercial building	4013-COV-A	BOL	Commercial
ROW	4013-COV-B	IEMA	Transportation

* For all sites:

Where REC(s) are indicated as present, a condition was noted that may be indicative of releases or potential releases of hazardous substances on, at, in, or to the site, as discussed in the text. Potential hazards were not verified by ISGS testing. Radon, biological hazards (such as mold, medical waste, or septic waste), and non-agricultural pesticides and/or herbicides may also be of concern. No further investigation concerning the presence or use of these factors was conducted for this PESA.

Where RECs are not indicated as present, radon, biological hazards (such as mold, medical waste, or septic waste), and non-agricultural pesticides and/or herbicides may still be of concern. No further investigation concerning the presence or use of these factors was conducted for this PESA.

For the purposes of this report, the following are considered to be de minimis conditions:

- Normal use of lead-based paint on exteriors and interiors of buildings and structures.
- Use of asbestos-containing materials in building construction.
- Transformers in normal use, unless the transformers were visibly leaking, appear on an environmental regulatory list, or were otherwise determined to pose a hazard not related to normal use.
- Agricultural use of pesticides and herbicides. In addition, most land in Illinois was under agricultural use prior to its conversion to residential, industrial, or commercial development. Pesticides, both regulated and otherwise, may have been used throughout the project area at any time. Unless specifically discussed elsewhere in this report, no information regarding

past pesticide use that would be subject to enforcement action was located for this project, and such use is considered a de minimis condition.

The following data gaps exist for all PESAs:

- For residences, only areas visible from public roads are inspected.
- Interiors of buildings are not inspected.
- Interiors of agricultural areas are not inspected during growing seasons.

Radon and biological hazards are not considered in this PESA unless specifically noted.

NA = No parcel number was supplied by IDOT for this site.

Although potential natural hazards and undermining, if present, are described in this report, they are not considered as RECs or de minimis conditions for the purposes of this report, and are therefore not listed in the tables above. Wetlands and flooding hazards are not evaluated as part of this report.

INTRODUCTION

This is the **Final Report** of a preliminary environmental assessment by the ISGS of natural and man-made hazards that may be encountered for the improvements to IL 2 from south of Indiana Avenue to Cole Avenue, Rockford, Winnebago County (Attachment 1). Project features include acquisition of additional ROW or easements, in-stream work, and excavation or subsurface utility relocation. No railroad ROW involvement is anticipated for this project. IL 2 is known as S. Main Street in the project area, and will be referred to as such in this report. No stationing information was provided by IDOT for this project. All measurements are approximate and taken from the centerlines of the roads. This report identifies and evaluates recognized environmental conditions (RECs) that may be indicative of releases or potential releases of hazardous substances on, at, in, or to the proposed project.

This assessment has been prepared using historical and geological information including aerial photographs, U.S. Geological Survey topographic maps, plat maps, file information of the ISGS, regulatory file information from federal, state, and other agencies, and various other sources of information. The specific methods used to conduct the assessment are contained in "A Manual for Conducting Preliminary Environmental Site Assessments for Illinois Department of Transportation Infrastructure Projects" (Erdmann et al., 2014).

This Preliminary Environmental Site Assessment (PESA) has been modified because of the COVID-19 pandemic prevalent in the State of Illinois during the time period of this project. The following disclaimers apply to this report:

- No site inspections were conducted, no library research was conducted, no in-person interviews were completed, and no visits to IEPA to obtain their regulatory files were conducted.

- Site boundaries were drawn based on aerial photography, county-level GIS data (where available), and street view imagery (where available). Actual site boundaries may differ from those depicted on Attachment 2.

- Site occupants and site addresses were determined based on Internet searches and street view imagery, where available. Actual site occupants and site addresses may differ from those listed in this report. If no site addresses were available, block numbers were used. If no street view imagery was available, an estimation of current occupancy was based on aerial photography.

- Site features listed under individual sites below were determined using the most recent street view imagery, where available. These features may no longer be present or may be present in a different location than that listed below.

- Street view imagery was used to identify RECs and de minimis conditions listed under individual sites below, where possible. These RECs and de minimis conditions are identified as “potential” in the tables, text, and conclusions.

- For regulatory files, only those files available online, or that had already been obtained, were reviewed. It is likely that for some or all sites that appear on regulatory databases,

additional information is present that is not available online. This information may be significant and may have affected the RECs and conclusions of this report if it had been available.

- City directory information is included only for projects for which electronic directories were available, or that had already been obtained. Electronic directories were available only for 1928 (City of Chicago only) and 2001 through 2019 (certain metropolitan areas in and near Chicago and in Metro East).

- **Therefore, this PESA is not in compliance with the IDOT-ISGS PESA Manual (Erdmann et al., 2014). It is recommended that IDOT use this report with these disclaimers in mind.**

GEOLOGY

Bedrock geology. The topmost bedrock unit in the project area has been mapped as the Ordovician-age rocks of the Platteville Group, which are composed of limestone.

Surficial geology. The total thickness of surficial deposits in the project area has been mapped as less than 8 m (25 ft). These deposits are composed of 0-6 m (0-20 ft) of Cahokia Formation sands and gravels over 6-15 m (20-50 ft) of Henry Formation sands and gravels.

Soils. None of the soils along the project ROW have been classified as containing more than 33% hydric components or as non-prime farmland soils by the NRCS.

HYDROGEOLOGY

Due to project type or IDOT internal procedure, the sections on surficial public water supplies, groundwater recharge, groundwater protection areas, potential for contamination of shallow aquifers, and well log information are not included in this report.

Drainage direction. Surficial drainage in the project area is generally toward the east, in the direction of Rock River (Site 4013-COV-3). However, since the project area is urbanized and storm drains and sewers are present, most surficial runoff will be controlled by the storm sewer system; such systems typically are designed to follow natural drainage patterns.

Neither the near-surface nor the shallow unconfined groundwater flow direction was specifically determined for this project, but they generally mimic local topography.

NATURAL FEATURES AND HAZARDS

No visible or known natural hazards were identified for this project.

PROJECT SITES

Project sites will be described from north to south along S. Main Street below. Attachment 1 contains a project location map. Attachment 2 contains a map of all sites discussed in this report. Attachment 3 is a former UST locations map for Site 4013-COV-2. The versions of the OSFM's UST database, IEPA's LUST database, IEPA's Bureau of Land database, and USEPA's SEMS database utilized for this report were all dated January 11, 2021. OSFM files were received on January 6, 2021. Partial IEPA files were received on December 17, 2020. No USEPA files were reviewed for this project. **No site inspections were conducted for this project.**

This project intersects previous ISGS PESAs and PSIs as follows:

ISGS #	Date submitted to IDOT	Intersects	PSI
695	March 29, 1996	Along S. Main Street	Weston #2, work order #024
695B	February 18, 2003	Along S. Main Street	Ecology and Environment #4, work order #021
695V	June 8, 2011	Along S. Main Street	Weston #7, work order #065

Information from these earlier PESAs and PSI will be summarized in geographic order below. No sites in this project were covered in PSI Weston #2, work order #024, or Ecology and Environment #4, work order #021.

Data gaps applicable to the entire project area

The following data gaps applicable to the entire project area were noted for this project. Data gaps specific to individual sites are discussed in the site writeups below.

- Aerial photographs provided information only for those specific times covered by the photographs, as noted in the Information Sources section. No records were available for intervening years, and other land uses could have occurred in these years.

- City directories collected for previous PESAs is included for all years for which it was available. If no city directory information is listed for a given year, it was not available for that year.

Because site inspections were not conducted for this PESA, the IDOT bridge information website and street view imagery, where available, were used to determine whether the bridge on this project were painted. This project includes a bridge that has been present since before 1985, when lead paint was no longer used to paint bridges. Lead paint may be present at this structure.

Site 4013-COV-1 (695V-62). Residences, 1901-2003 S. Main Street, Rockford (northwest and southwest corners of Main Street and Michigan Avenue; Attachment 2). This site is occupied by five residences. In street view imagery, three pole-mounted transformers were visible along Main Street at 1901 S. Main Street. This site did not appear on any of the regulatory lists checked for this project.

On the 1859 through 1946 plat maps, the site was under individual ownership with no buildings depicted. On the 1956 and later plat maps, the site was incorporated within Rockford. On the 1913 Sanborn map, four of the five current residences were present. On the 1939 and later aerial photos, and on the 1950 through 1966 Sanborn maps, all five of the current residences were present.

No data gap was identified at this site.

The buildings on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Evidence from aerial photographs indicates that these residences were constructed before 1978. Lead paint was banned for residential use in the United States in 1978, and therefore lead paint may be present in these buildings.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Potential transformers; potential ACM and lead paint.

Site 4013-COV-2 (695-14, 695B-21, 695V-66). Vacant land, 1900-2000 blocks of S. Main Street, Rockford (northeast corner of Main Street and Marchesano Drive; Attachment 2). This site is occupied by vacant grassy land.

On the 1859 through 1946 plat maps, the site was under individual ownership with no buildings depicted. On the 1956 and later plat maps, the site was incorporated within Rockford. On the 1913 Sanborn maps, this site was vacant. On the 1939 through 1963 aerial photos, and on the 1950 through 1957 Sanborn maps, a residence in the northeast corner of Main Street and Michigan Avenue, a gasoline station in the southeast corner of Main Street and Michigan Avenue, and commercial building with unspecified stores in the northeast corner of Main Street and Marchesano Drive were present. Three USTs were depicted at the gasoline station, approximately 3 m (10 ft) east of Main Street and approximately 25 m (80 ft) south of Michigan Avenue. On the 1963 Sanborn map, the gasoline station was labeled as an auto sales dealer; the remaining buildings on the site were unchanged. On the 1964 through 2011 aerial photos, and on the 1967 Sanborn map, an unspecified commercial building was present in the southeast corner of Main Street and Indiana Avenue; the remaining site area was unchanged. On the 2012 through 2017 aerial photos, this site was occupied by vacant wooded land. On the 2018 and later aerial photos, this site was occupied by vacant grassy land. In the 1929 through 1990 city directories, various individuals and service providers were listed in the historic address range for this site, including a gasoline station (1929-1950) and a dry cleaners (1960-1979). No potential hazards were identified in association with any of the other former occupants. During the fieldwork for ISGS #695 in 1996, and all subsequent PESAs, this site was occupied by vacant wooded land.

Under the name “City of Rockford” and the address “2002 S. Main St.”, this site appears on the UST list (OSFM #1045630) with three registered USTs. According to OSFM files, one gasoline UST and two USTs with unknown contents were encountered at this site during road work in June 2014 (see Attachment 3 for the former UST locations). The USTs were removed in July 2014. No further information was available in OSFM files regarding OSFM #1045630.

No information concerning USTs at this site was available at the Rockford Fire Department visited during fieldwork for ISGS #695V in 2011.

In the three boreholes completed at this site for PSI Weston #7, work order #065, in September 2012, VOC, SVOCs, and metals were detected. See Weston #7, work order #065, for details.

Historic gasoline stations and vehicle dealerships commonly conduct vehicle repair on the premises. Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s). Potential hazards associated with dry cleaning businesses include VOCs.

The following data gaps were identified at this site:

- The contents of two of the former USTs in OSFM files are unknown.
- The status and locations of any undocumented UST(s) at this site are unknown.

Because there are no buildings present and no evidence of fill or demolition debris was visible, asbestos-containing materials and lead paint are unlikely to be present at this site.

The following RECs were identified at this site: Former USTs; potential UST(s); potential former chemical use; VOCs, SVOCs, and metals detected in previous PSI testing.

No de minimis conditions were identified at this site.

Site 4013-COV-3 (695V-F). Rock River, 1900-2000 blocks of S. Main Street, Rockford (east side of the project limits between Indiana Avenue and Cole Avenue; Attachment 2). This site is occupied by the Rock River. Marchesano Drive crosses the river on a painted bridge (Site 4013-COV-5). This site did not appear on any of the regulatory lists checked for this project.

According to the 2018 IEPA Illinois Integrated Water Quality report, the Rock River has been assessed as “not supporting” in the category of fish consumption. Causes of non-attainment were listed as mercury and fluoride. The source was listed as atmospheric deposition-toxics and unknown. This river has been assessed as “fully supporting” in the categories of aquatic life, and has not been assessed in the category of aesthetic quality.

No data gaps were identified at this site.

Because there are no buildings present and no evidence of fill or demolition debris was visible, asbestos-containing materials and lead paint are unlikely to be present at this site.

The following REC was identified at this site: Non-attainment of water quality.

No de minimis conditions were identified at this site.

Site 4013-COV-4 (695-15, 695B-22, 695V-67). Commercial building, 2019-2021 S. Main Street, Rockford (northwest corner of Main Street and Marchesano Drive; Attachment 2). This site is occupied by a commercial building containing a restaurant and a financial services facility (see address table for listings). During the fieldwork for ISGS #695 in 1996 and #695B in 2003, four USTs were located 20 m (70 ft) west of Main Street and 30 m (90 ft) north of Marchesano Drive.

The bases of two former dispenser islands were located 20 and 25 m (60 and 85 ft) west of Main Street and 40 m (125 ft) north of Marchesano Drive. The base of one former dispenser island was located 35 m (110 ft) west of Main Street and 20 m (60 ft) north of Marchesano Drive. These USTs and dispenser island bases were not visible in July 2018 street view imagery. The status of these USTs is unknown. This site did not appear on any of the regulatory lists checked for this project.

On the 1859 through 1946 plat maps, the site was under individual ownership with no buildings depicted. On the 1956 and later plat maps, the site was incorporated within Rockford. On the 1913 through 1950 Sanborn maps, and on the 1939 through 1951 aerial photos, a residence was present. On the 1957 through 1966 Sanborn maps, and on the 1958 through 1964 aerial photos, the residence was still present along with a commercial building different than the current one. On the Sanborn maps, the commercial building was labeled as an unspecified store in 1957 and 1963, and as a dry cleaner in 1967. On the 1970 and later aerial photos, the current building was present. In the 1929 through 1990 city directories, various individuals and service providers were listed in the historic address range for this site, including a dry cleaners (1990). During the fieldwork for ISGS #695 in 1996 and all subsequent PESAs, this site was under its current use.

The following information has been modified from ISGS #695B:

> Information from the Rockford Fire Department included construction blueprints submitted by Sinclair Oil Corporation to the Rockford Fire Department (approved June 4, 1969). These plans depicted three dispenser islands, four gasoline USTs, one fuel-oil UST, and one waste-oil UST. The fuel and waste oil USTs were located along the west wall of the gas station. After the gas station closed, the fire department informed the owner that the USTs must be removed or decommissioned. A letter received from the owner on October 20, 1976, stated that four USTs were filled with sand and water by Reserve Construction Company.

The status of two of the six USTs documented in municipal records is unknown.

In the three boreholes completed on this site for PESA #695 in 1996, no VOCs were detected. See PESA #695 for details. In the four boreholes completed on this site for PESA #695B in 2003, VOCs were detected. See PESA #695B for details. In the three boreholes completed at this site for PSI Weston #7, work order #065, in September 2012, SVOCs and metals were detected. See Weston #7, work order #065, for details.

Historic gas stations commonly conducted auto repairs on the premises. Potential hazards associated with vehicle repair facilities include waste oil, lubricants, and transmission fluids; spent solvents; waste paints and thinners; sludge from parts-cleaning tanks; oily sludge from floor sumps; used antifreeze; used lead-acid batteries; and undocumented UST(s). Potential hazards associated with dry cleaning businesses include VOCs.

The following data gaps were identified at this site:

- The status of the USTs observed during fieldwork for ISGS #695 is unknown.
- The status of two of the six USTs documented in municipal records is unknown.
- The status and location of any undocumented UST(s) at this site are unknown.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in this building.

The following RECs were identified at this site: USTs; potential UST(s); potential former chemical use; VOCs, SVOCs, and metals detected in previous ISGS and PSI testing.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 4013-COV-5. Bridge, 1900 block of S. Main Street, Rockford (Marchesano Drive over the Rock River; Attachment 2). This site is occupied by a painted bridge (S.N. 101-6137) carrying Marchesano Drive over the Rock River (Site 4013-COV-3). This site did not appear on any of the regulatory lists checked for this project.

On the 1859 through 1886 plat maps, no bridge was present. On the 1905 and later plat maps, and on the 1939 and later aerial photos, a bridge was present. According to the IDOT Bridge Information website, this bridge was constructed in 1993.

No data gaps were identified at this site.

The structure on this site is painted and may contain friable asbestos-containing materials as a component of painting or patching compounds. Evidence from aerial photographs indicates that this bridge was constructed after 1985, when lead paint was no longer used to paint bridges, and therefore lead paint is unlikely to be present at this structure.

No RECs were identified at this site.

The following de minimis condition was identified at this site: Potential ACM.

Site 4013-COV-6 (695V-68). Poor Clares Corpus Christi Monastery, 2111 S. Main Street, Rockford (southwest corner of Main Street and Marchesano Drive; Attachment 2). This site is occupied by a monastery consisting of four buildings. This site did not appear on any of the regulatory lists checked for this project.

On the 1859 through 1946 plat maps, the site was under individual ownership with no buildings depicted. On the 1956 and later plat maps, the site was incorporated within Rockford. On the 1913 Sanborn maps, a portion of the two of the current buildings was present and was labeled as a sanitarium. Two additional buildings were located on the west half of the site, labeled as coal storage and a carpentry shop. The current building along Marchesano Drive had an AST with unknown contents in the basement. On the 1939 aerial photos and on the 1950 Sanborn maps, three of the current buildings were present. The buildings and AST that were depicted on the 1913 Sanborn maps were present, and the site was labeled as the Corpus Christi Monastery. On the 1951 through 1958 aerial photos, and on the 1951 Sanborn map, only three of the current buildings were present, and the coal storage, carpentry shop, and AST were no longer depicted on the Sanborn maps. The status and contents of the AST on Sanborn maps are unknown. On the 1963 through 1966 Sanborn maps, and on the 1964 and later aerial photos, all the current buildings and

site configuration were present. In the 1929 and later city directories, the current occupant was listed.

Potential hazards associated with carpentry shops and coal storage include VOCs and metals.

The following data gap was identified at this site:

- The status and contents of the AST on Sanborn maps are unknown.

The buildings on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Lead paint was banned for residential use in the United States in 1978, but has not been banned for industrial and commercial use. Therefore lead paint may be present in these buildings.

The following RECs were identified at this site: Potential AST; potential former chemical use.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

Site 4013-COV-7 (695-14, 695B-21, 695V-66). Vacant land, 2100-2200 blocks of S. Main Street, Rockford (southeast corner of Main Street and Marchesano Drive; Attachment 2). This site is occupied by vacant grassy land. This site did not appear on any of the regulatory lists checked for this project.

On the 1859 through 1946 plat maps, the site was under individual ownership with no buildings depicted. On the 1956 and later plat maps, the site was incorporated within Rockford. On the 1913 through 1966 Sanborn maps, and on the 1939 through 1958 aerial photos, this site was vacant with a grassy appearance. On the 1964 through 1999 aerial photos, a paved parking area was present on the south end of the site; the rest of the site area was vacant with a grassy appearance. On the 2003 and later aerial photos, this site was vacant, with a grassy appearance.

In the two boreholes completed at this site for PSI Weston #7, work order #065, in September 2012, no VOCs, SVOCs, or metals were detected. See Weston #7, work order #065, for details.

No data gaps were identified at this site.

Because there are no buildings present and no evidence of fill or demolition debris was observed, asbestos-containing materials and lead paint are unlikely to be present at this site.

No RECs or de minimis conditions were identified at this site.

Site 4013-COV-8 (695V-72). Residence, 2303 S. Main Street, Rockford (southwest corner of Main Street and Cole Avenue; Attachment 2). This site is occupied by a residence. This site did not appear on any of the regulatory lists checked for this project.

On the 1859 through 1946 plat maps, the site was under individual ownership with no buildings depicted. On the 1956 and later plat maps, the site was incorporated within Rockford. On the 1913 Sanborn map, and on the 1939 aerial photo, this site was vacant, with a grassy appearance. On

the 1950 through 1966 Sanborn maps, and on the 1951 and later aerial photos, the current residence was present.

No data gaps were identified at this site.

The building on this site may contain friable asbestos-containing materials as a component of floor tiles, wall and pipe insulation, roof materials, patching or painting compounds, ceiling materials, or stove and furnace insulation. Evidence from aerial photographs indicates that this residence was constructed before 1978. Lead paint was banned for residential use in the United States in 1978, and therefore lead paint may be present in this building.

No RECs were identified at this site.

The following de minimis conditions were identified at this site: Potential ACM and lead paint.

ADJOINING SITES

The ISGS conducted a search of federal, state, and other environmental databases for reported environmental concerns on sites adjoining the project. For certain resources, the search distances may have been expanded when deemed applicable in the judgment of the project manager. Refer to the Appendix for complete citations for these databases and the date of update of each database. Sites along the project are listed in the preceding section. Sites adjoining the project that do not appear on regulatory databases are not included. The following sites adjoining but not along, the project were identified.

Federal records:

SEMS: NPL, Active, and Archived
None.

RCRA sites subject to corrective action (CORRACTS)
None.

RCRA sites – non-CORRACTS TSD
None.

RCRA sites – other
None.

Brownfields
None.

Non-LUST releases and spills
None.

State records:

Leaking underground storage tanks (LUST)
None.

Registered underground storage tanks (UST)
None.

IEPA Site Remediation Program
None.

IEPA Bureau of Land Inventory
Site 4013-COV-A (695-16, 695B-23, 695V-73). Commercial building, 2315 S. Main Street, Rockford. IEPA #2010301167. Adjoining property to the south of Site 4013-COV-8 (Attachment 2).

Brownfields
None.

Non-LUST releases and spills
Site 4013-COV-B (695V-128c). ROW, 1900 block of S. Main Street, Rockford. IEMA #913559. Adjoining property to the northeast of Site 4013-COV-1 (Attachment 2).

Activity and Use Limitations (including Institutional controls, engineered barriers, and Highway Authority Agreements)
None.

Municipal records
None.

Tribal records
There are no tribally owned lands in the state of Illinois; therefore, the checking of tribal records is not applicable for this report.

CONCLUSIONS

(1) RECs were identified at the following sites along the project:

- Site 4013-COV-2: Vacant land. Former USTs; potential UST(s); potential former chemical use; VOCs, SVOCs, and metals.
- Site 4013-COV-3: Rock River. Non-attainment of water quality.
- Site 4013-COV-4: Commercial building. USTs; potential UST(s); potential former chemical use; VOCs, SVOCs, and metals; potential ACM and lead paint.
- Site 4013-COV-6: Poor Clares Corpus Christi Monastery. Potential AST; potential former chemical use; potential ACM and lead paint.

(2) De minimis conditions were identified at the following sites along the project:

- Site 4013-COV-1: Residences. Potential transformers; potential ACM and lead paint.
- Site 4013-COV-5: Bridge. Potential ACM.
- Site 4013-COV-8: Residence. Potential ACM and lead paint.

(3) No RECs or de minimis conditions were identified at the following site along the project:

- Site 4013-COV-7: Vacant land.

(4) The following properties were identified that appear on environmental databases and that are adjoining, but not along, the project:

- Site 4013-COV-A. Commercial building: BOL.
- Site 4013-COV-B. ROW: IEMA.

(5) For the purposes of this report, the following are considered to be de minimis conditions:

- Normal use of lead-based paint on exteriors and interiors of buildings and structures.
- Use of asbestos-containing materials in building construction.
- Transformers in normal use, unless the transformers were visibly leaking, appear on an environmental regulatory list, or were otherwise determined to pose a hazard not related to normal use.
- Agricultural use of pesticides and herbicides. In addition, most land in Illinois was under agricultural use prior to its conversion to residential, industrial, or commercial development. Pesticides, both regulated and otherwise, may have been used throughout the project area at any time. Unless specifically discussed elsewhere in this report, no information regarding past pesticide use that would be subject to enforcement action was located for this project, and such use is considered a de minimis condition.

ENDORSEMENTS

Project Manager: _____ **Date:** 01/13/2021

Craig Decker

Approved: _____ **Date:** 01/13/2021

Anne Ellison, P.G., State of Illinois
License #196-000546



ADDRESS LISTINGS

The following addresses along the project were evaluated for this project. Addresses of sites, if any, adjoining but not along the project are not listed here; see text for discussion of these sites.

Property name and address	ISGS site #	Parcel #
Residence 1901 S. Main Street, Rockford	4013-COV-1	NA
Residence 1913 S. Main Street, Rockford	4013-COV-1	NA
Residence 1917 S. Main Street, Rockford	4013-COV-1	NA
Residence 1921 S. Main Street, Rockford	4013-COV-1	NA
Residence 2003 S. Main Street, Rockford	4013-COV-1	NA
Vacant land 1900-2000 blocks of S. Main Street, Rockford	4013-COV-2	NA
Rock River 1900-2000 blocks of S. Main Street, Rockford	4013-COV-3	NA
Mi Rancherito Mexican Restaurant 2019 S. Main Street, Rockford	4013-COV-4	NA
El Carrusel 2021 S. Main Street, Rockford	4013-COV-4	NA
Bridge 1900 block of Main Street, Rockford	4013-COV-5	NA
Poor Clares Corpus Christi Monastery 2111 S. Main Street, Rockford	4013-COV-6	NA
Vacant land 2100-2200 blocks of S. Main Street, Rockford	4013-COV-7	NA
Residence 2303 S. Main Street, Rockford	4013-COV-8	NA

INFORMATION SOURCES

Website addresses listed below were accurate and active as of the date viewed or cited in the Appendix; however, websites change frequently and web addresses may be different in the future or may cease to exist entirely.

Berg, R.C., and Kempton, J.P. (1988). Stack-unit mapping of geologic materials in Illinois to a depth of 15 meters. Illinois State Geological Survey Circular 542. GIS data produced from publication plates (1995, revised 1998).

Chadwyck-Healey Inc. (1913, 1950). Sanborn fire insurance maps. Rockford, sheets #58 and #59: http://sanborn.umi.com.

Erdmann, A.L., Adomaitis, D.J., Bannon-Nilles, P.L., Kientop, G.A., and Schmidt, D.R. (2014). A manual for conducting preliminary environmental site assessments for Illinois Department of Transportation infrastructure projects. Illinois State Geological Survey Circular 585. 38 pp.

Geiger, J.W. (2006). Summary of former manufactured gas plants of Illinois (draft). Illinois State Geological Survey.

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APPENDIX

ISGS PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT CHECKLIST

IDOT: NA ISGS: 4013-COV
City: Rockford
County: Winnebago
Location Coordinates: T44N, R1E, Sections 27 and 34

ISGS Lead: Craig Decker

Task	Status*	Date	By
Original Material Copied	MF	8/20/20	MRC
IDOT Project Location Database - (All other projects/IDOT sites in the vicinity of the project)			
▸ Other Preliminary Environmental Site Assessments	MF	1/6/21	CRD
▸ Preliminary Site Investigations/Phase II Reports	MF	1/6/21	CRD
▸ Maintenance Facilities	NF	1/6/21	CRD
▸ Permit-Access Agreements	NF	1/6/21	CRD
▸ Draft Highway Authority Agreements/Highway Authority Agreements	NF	1/6/21	CRD
▸ Miscellaneous Sites	NF	1/6/21	CRD
Local Collections			
▸ County	NF	1/6/21	CRD
▸ City	NF	1/6/21	CRD
Geologic Information			
▸ ISGS Stack-Unit Map (GIS)	MF	1/6/21	CRD
▸ ISGS Glacial Drift in Illinois (GIS)	MF	1/6/21	CRD
▸ ISGS Bedrock Geology of Illinois (GIS)	MF	1/6/21	CRD
▸ USDA NRCS Soil Survey Maps	MF	1/6/21	CRD
▸ USDA NRCS Hydric Soils	MF	1/6/21	CRD
▸ USDA NRCS Prime Farmland Soils	MF	1/6/21	CRD
Hydrogeologic Information (non-CE projects only)			
▸ IEPA Restricted Status List	NA	1/6/21	CRD
▸ IEPA SWAP-IL Public Water Supplies	NA	1/6/21	CRD
▸ ISGS Wells (GIS)	NA	1/6/21	CRD
▸ ISWS Public Water Supply Surface Water Intakes in Illinois (GIS)	NA	1/6/21	CRD
▸ Potential for Aquifer Contamination Map	NA	1/6/21	CRD
▸ Potential for Aquifer Recharge Map	NA	1/6/21	CRD
Hydrogeologic Information (all projects)			
▸ IEPA SWAP Wellhead Protection	NF	1/6/21	CRD
▸ IEPA SWAP Fact Sheets /IEPA Well Site Survey Reports	NF	1/6/21	CRD
▸ Sole Source Aquifer Protection Program	NF	1/6/21	CRD
Historical Records			
▸ Aerial Photographs	MF	1/6/21	CRD
▸ USGS Topographic Maps	MF	1/6/21	CRD
▸ Plat Maps	MF	1/6/21	CRD
▸ Sanborn Fire Insurance Maps: Chadwyck-Healey Inc.	MF	1/6/21	CRD
▸ Sanborn Fire Insurance Maps: University Publications of America	MF	1/6/21	CRD
▸ Sanborn Fire Insurance Maps: Rascher Publishing Company	NA	1/6/21	CRD
▸ Sanborn Fire Insurance Maps: Greeley-Carlson	NA	1/6/21	CRD
▸ City Directories	NA	1/6/21	CRD
▸ Industrial Directories (optional)	NA	1/6/21	CRD
▸ IEPA-ISGS Summary of Former Manufactured Gas Plant Sites (GIS)	NF	1/6/21	CRD
▸ ISGS Draft SEMS Site Coverage (GIS)	NF	1/6/21	CRD
▸ ISGS Draft LUST Site Coverage (GIS)	MF	1/6/21	CRD
▸ ISGS Draft Landfill Site Coverage (GIS)	NF	1/6/21	CRD

Task	Status*	Date	By
Federal Records			
▸ SEMS (NPL, Active, Archived)	NF	1/11/21	CRD
▸ Mercury Site Lists	NF	1/6/21	CRD
▸ RCRA CORRACTS	NF	1/11/21	CRD
▸ RCRA Non-CORRACTS TSD Facilities	NF	1/11/21	CRD
▸ RCRA (Other)	NF	1/11/21	CRD
▸ ERNS	NF	1/11/21	CRD
▸ Brownfields Sites	NF	1/6/21	CRD
▸ Toxics Release Inventory	NF	1/6/21	CRD
▸ SSTS	NF	1/6/21	CRD
▸ PCB Transformer Registration Database	NF	1/6/21	CRD
USEPA Information Request			
▸ Sent	NA	1/6/21	CRD
▸ Received	NA	1/6/21	CRD
State Records			
▸ IEPA Brownfields	NF	1/6/21	CRD
▸ IEPA Bureau of Land Inventory	MF	1/11/21	CRD
▸ IEPA Illinois Water Quality Reports	NF	1/6/21	CRD
▸ IEPA LUST	NF	1/11/21	CRD
▸ IEPA Site Remediation Program	NF	1/11/21	CRD
▸ OSFM UST	MF	1/11/21	CRD
▸ IEMA non-LUST Incidents/IEPA OER lists	MF	1/11/21	CRD
▸ Activity and Use Limitations (AULs)	NF	1/6/21	CRD
▸ Groundwater Ordinances	NF	1/6/21	CRD
▸ Cook County Bridge List	NA	1/6/21	CRD
▸ IDOT Bridge List	MF	1/6/21	CRD
▸ Landfills (GIS)	NF	1/6/21	CRD
▸ State Underground Injection Control Inventory	NF	1/6/21	CRD
IEPA BOL Information Request			
▸ Sent	MF	12/14/20	CRD
▸ Received	MF	12/17/20	TVV
OSFM Information Request			
▸ Sent	MF	1/6/21	CRD
▸ Received	MF	1/6/21	CRD
Local Records			
▸ Municipal Records (optional)	NF	1/6/21	CRD
Mining Maps and Publications			
▸ ISGS Quadrangle/County On-Line Coal Maps and Directories	NF	1/6/21	CRD
▸ ISGS Non-Coal Underground Mines	NF	1/6/21	CRD
▸ Lead Mining	NF	1/6/21	CRD
Oil and Gas Information			
▸ ISGS Oil and Gas Fields/Oil Wells (ILOIL GIS)	NF	1/6/21	CRD
▸ USDOT OPS Pipeline Integrity Management Mapping Application	NF	1/6/21	CRD
Natural Hazards			
▸ USGS Seismic Risk Map	NF	1/6/21	CRD
▸ ISGS Landslide Inventory (GIS)	NF	1/6/21	CRD
▸ Karst Terrains and Carbonate Rocks of Illinois Maps	NF	1/6/21	CRD

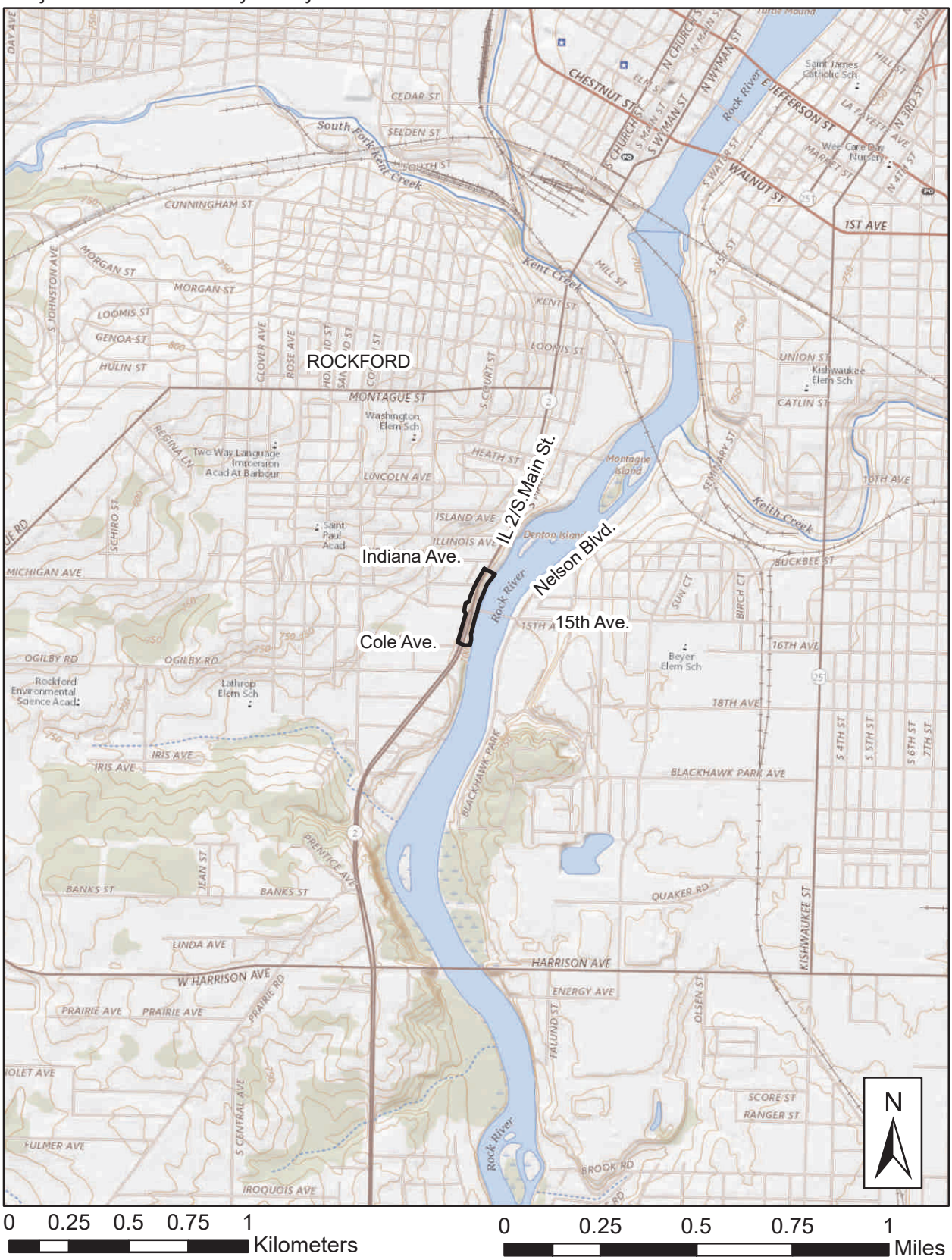
* MF = Material found within search radius; NF = Nothing found within search radius; NA = Not applicable

Date of Records Review Completion: January 11, 2021

LIST OF ATTACHMENTS

1. Project location map, ISGS #4013-COV.
2. Site location map.
3. Site 4013-COV-2. Former UST locations.

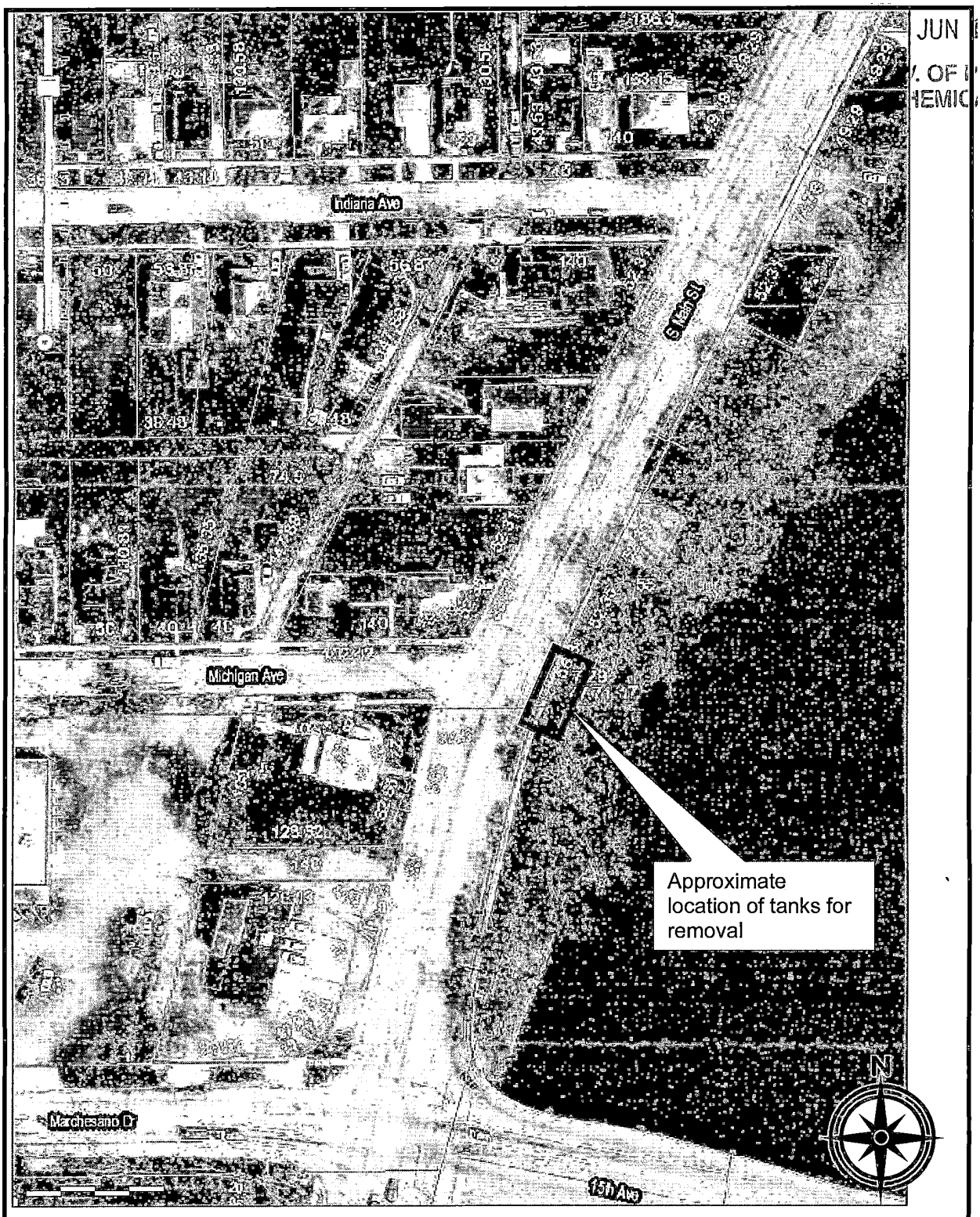
Attachment 1. Project location map, ISGS #4013-COV.
Project area indicated by heavy black lines.



Attachment 2. Site location map, Sites 4013-COV-1 through 4013-COV-8.
All site boundaries are approximate and should not be used as actual parcel boundaries.



Attachment 3. Site 4013-COV-2. Former UST locations. Map from OSFM files.
Poor quality due to the poor quality of the original.



SOURCE: Winnebago County, June 3, 2014	2002 S. Main, Rockford

APPENDIX B

APPENDIX B GPR REPORT

GPR SURVEY PHOTO LOG

FIELD REPORT

Work Order Date: 7/17/2025

Requestor: Emily McGonigle

Company: Huff and Huff

Email: Emily.mcgonigle@gza.com

Phone: 312.919.6920

Requestor Job Notes:

Locate private utilities around 2 soil bores and perform GPR to see if there is a tank present in two areas at 15th and Main St., Rockford, IL.

Utilities Located:

Electric **N** Gas **N** Telecommunications **N** Fiber Optic **N** Water **N** Sanitary **N** Storm **N** Irrigation **N**

Maps/Plans Provided? **NO** Non-locatable Utilities? **NO** - *If "Yes", see Technician notes below.*

Technician Notes:

• Performed 50/60 cycle sweep for energized lines around both locations. No signals were found.

• Performed GPR scans using an IDS Opera duo for this project. The IDS Opera Duo is a two antennae system that allows for both deep and shallow scans. An anomaly was seen in the parking lot that could potentially be a UST. The length of this anomaly was in the parking lot and did not cross into the ROW. This would only be verified through excavation. Pictures of this scan have been included. Across the street another anomaly was seen, however, there was not enough working area to confirm length of an anomaly.

• Verified the water and sewer location for the building to ensure no interference from those utilties.

Technician Signature: Sean Angelo **Date: 7/17/2025**

Customer Signature:_____ **Date:**_____

By signing this document, you are acknowledging acceptance and understanding of the work completed by Lucky Locators, Inc. In the event a customer does not have an employee on site to sign the document, an email communication providing the work order will be sent, which will be considered the acceptance. Lucky Locators, Inc. will not be held liable for any damages incurred due to failure of following any notes provided by the Technician that performed the work as noted above.

STANDARD TERMS

1. EFFECT OF THESE TERMS AND CONDITIONS. By using our services, you are deemed to have accepted these Standard Terms and any terms in the document into which these Standard Terms were incorporated.

2. MODIFICATION. These Terms and Conditions may only be modified in a written document signed by our authorized representative. Subsequent invoices, confirmations, acknowledgments, sales orders, quotations or other documentation from you are not sufficient to modify these Terms and Conditions. Please note that our representatives at job sites are not authorized to modify our Terms and Conditions.

3. INCONSISTENT TERMS. To the extent that your prior or future invoices, confirmations, acknowledgments, purchase orders, quotations or other documents or communications contain terms that contradict these Terms and Conditions or are explicitly or implicitly inconsistent with these Terms and Conditions, then we object to and reject such terms, which are null and void; and these Terms and Conditions shall apply. Additional terms concerning a subject covered by these Terms and Conditions shall be deemed inconsistent terms for purposes of these Terms and Conditions.

4. ADDITIONAL TERMS. We object to and reject terms included in your prior or future invoices, confirmations, acknowledgments, sales orders, quotations or other documents that are in addition to these Terms and Conditions, and such terms are not effective, are not included in the parties' contract, and are null and void.

5. CONSEQUENCES OF NON-PAYMENT. In the event you fail to timely pay us, we will charge you 1.5% per month of interest on the total amount due (including past due principal and past due interest or other costs, fees or charges) that your payment is late.

6. ATTORNEYS' FEES. In the event that you fail to timely pay us and we are required to retain counsel to enforce our rights, you are responsible for our reasonable attorneys' fees and other legal or litigation costs. These amounts include the fees and costs associated with investigating our claims as well as filing and prosecuting litigation (including defense of counterclaims) in any tribunal, including but not limited to courts, arbitrations, mediations or before administrative agencies.

7. DEFINITIONS OF YOUR CUSTOMER AND PROPERTY WHERE WE PERFORM OUR SERVICES. For purposes of these Terms and Conditions, (a) "Your Customer" means the person or entity with whom you have a contract to supply goods or perform services that is related to our agreement, and/or the owner of the property where such goods are to be sent or on which such services are to be performed; and (b) the "Property where we perform our services" includes all real and personal property at the location where we perform our service and all contiguous real or personal property with the same owner.

8. DISCLAIMER OF WARRANTIES. WE SPECIFICALLY DISCLAIM ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. WE DISCLAIM WARRANTIES THAT OUR WORK IS FREE FROM DEFECTS OR MEETS ANY STANDARD OF WORKMANSHIP OR CUSTOMARY QUALITY OR FITNESS. ACCEPTANCE OF OUR WORK WAIVES ANY CLAIM THAT OUR SERVICES WERE DEFECTIVE OR INADEQUATE.

9. LIMITATIONS ON LIABILITY OR REMEDIES. FOR ANY CLAIM RELATED IN ANY WAY TO THE PARTIES' AGREEMENT, THE WORK THAT WE PERFORM FOR YOU OR YOUR CUSTOMER OR THE PROPERTY WHERE WE PERFORM OUR SERVICES, WE EXCLUDE AND DISCLAIM, AND SHALL NOT BE LIABLE UNDER ANY CIRCUMSTANCES (WHETHER IN CONTRACT, TORT OR OTHER GROUNDS FOR A CLAIM) FOR DAMAGES THAT ARE CONSEQUENTIAL, INCIDENTAL, INDIRECT, SPECIAL, EXEMPLARY OR PUNITIVE.

10. INDEMNIFICATION BY SELLER/SUPPLIER/OTHER PARTY. You agree to indemnify, defend and hold harmless (including the payment of attorneys' fees, litigation expenses and costs) us and our officers, directors, employees and representatives (collectively, "Our Parties") from and against any claims, lawsuits, demands, damages, liability, causes of action, costs and expenses (collectively, "Claims") arising out of or related to our agreement, the work we perform for you or your Customer, the property where we perform our services, or the work you performed for your Customer, to the extent such Claims assert that or arose because of (a) your actual or alleged strict liability, negligence, gross negligence, or reckless, intentional or willful misconduct, (b) your actual or alleged failure of your goods or services to meet applicable law or standards, or (c) your goods or services were actually or allegedly defective or (d) because any of your express or implied representations were actually or allegedly inaccurate or false. No indemnified claims may be settled without our written consent, which shall not be unreasonably withheld. For purposes of this paragraph, "you" or "your" includes you, your officers, directors, employees, agents and representatives, and independent contractors that you have hired.

11. ARBITRATION/ALTERNATIVE DISPUTE RESOLUTION. We reject any provision requiring the parties to engage in arbitration, mediation or any other alternative dispute resolution procedures in connection with any dispute.

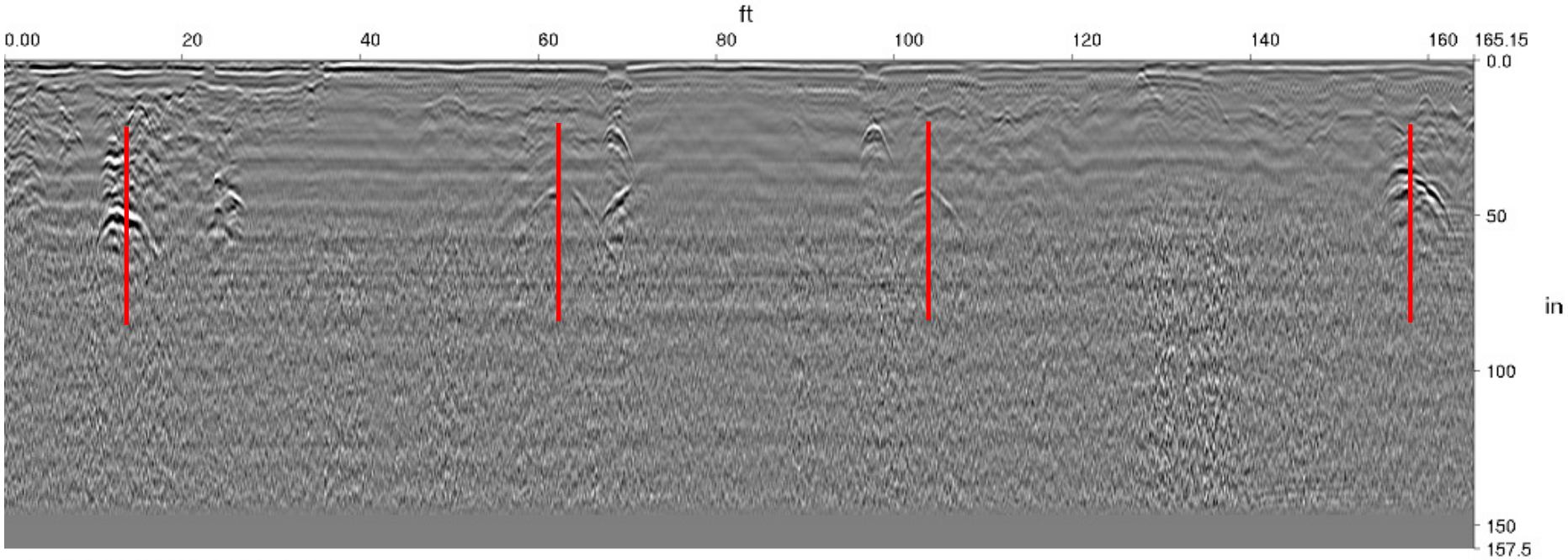
12. DISPUTE PROCEDURES. In the event you believe we are liable for damage to any property or person for any reason, you agree to: (a) promptly notify us to allow us to assess the damage and investigate the worksite prior to changes being made and/or corrective action occurring, and (b) allow us to access to assess the damage and investigate the worksite prior to changes being made and/or corrective action occurring, or (c) in the event that, due to the exigencies of the circumstances, you cannot provide us with an opportunity to assess the damage and investigate the worksite, take video and/or photographs of the site sufficient to determine who is responsible for the damage (this evidence must include, among other things, the markings that we made). If you fail to comply with this provision, then you waive the right to assert that we are responsible and/or liable for damages of any kind.

13. SET-OFF AND RECOUPMENT. We retain all rights to recoup and/or set-off any amounts owed by you against any amounts we owe or will owe you now or in the future, whether mutuality exists, whether the amounts we withhold are related to this transaction or to any other transaction, and whether the amounts owed are liquidated or unliquidated.

By signing this document, you are acknowledging acceptance and understanding of the work completed by Lucky Locators, Inc. In the event a customer does not have an employee on site to sign the document, an email communication providing the work order will be sent, which will be considered the acceptance. Lucky Locators, Inc. will not be held liable for any damages incurred due to failure of following any notes provided by the Technician that performed the work as noted above.

15th and Main

Rockford

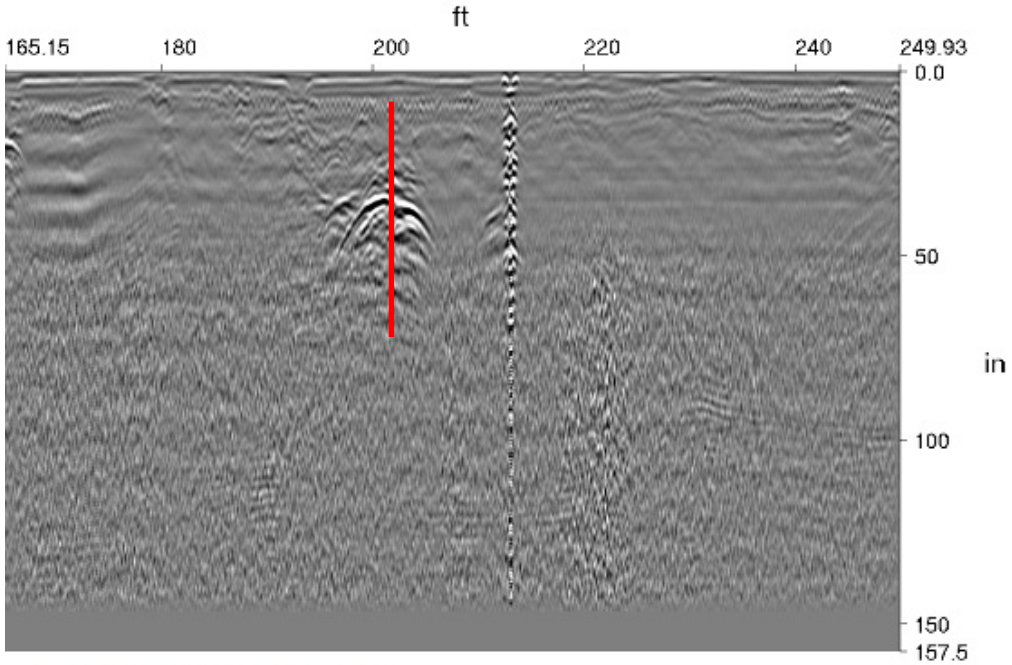


Propagation velocity: 3.9 in/ns
v: propagation velocity of marker

Red Lines indicate center of Anomaly

15th and Main

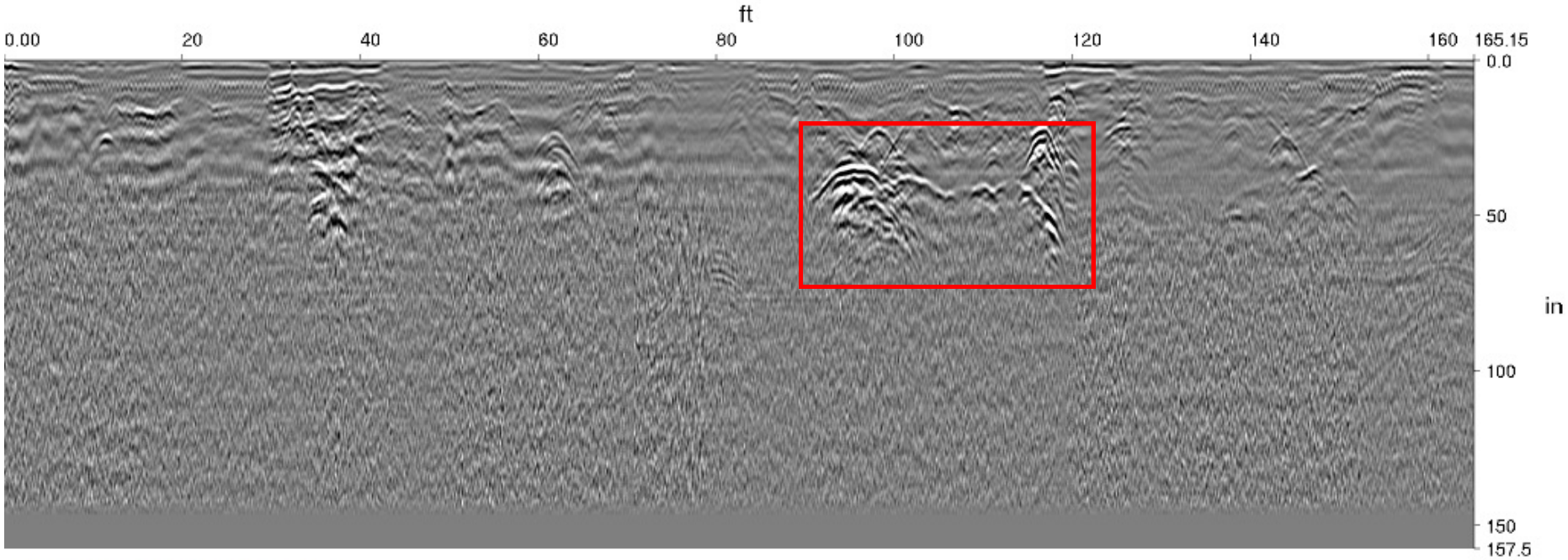
Rockford



Propagation velocity: 3.9 in/ns
v: propagation velocity of marker

15th and Main

Rockford



Propagation velocity: 3.9 in/ns
v: propagation velocity of marker

Length of anomaly when scanned on center. Indicates excavation. Potential UST present.



Photograph 1:	Lucky Locators conducting the GPR scan of site 4013-2. Photo taken from site 4013-4 facing east.



Photograph 2:	Lucky Locators conducting the GPR scan of site 4013-4. Photo taken facing southeast.

Huff & Huff incorporated A Subsidiary of GZA GeoEnvironmental, Inc.	***IDOT PTB 207-054 (HH-3)*** ***Work Order 025***	***15th Avenue and Marchesano Drive,*** ***West Street to Orange Street*** ***Rockford, Winnebago County, Illinois***



Photograph 3:	Spray paint marking the extents of the anomaly identified in the parking lot of site 4013-4, facing east. The anomaly does not extend further east or west of the demarcated area.



Photograph 4:	Spray paint marking the extents of the anomaly identified in the parking lot of site 4013-4 and the proximity to the intersection, facing southeast.

APPENDIX C

SOIL BORING LOGS

GZA GeoEnvironmental, Inc.
915 Harger Road, Suite 330
Oak Brook, IL 60523
630-684-9100

BORING NUMBER 4013-2-01

CLIENT IDOT - Bureau of Design & Environment
PROJECT NAME IDOT 207-054 WO25 15th Ave Rockford PSI
PROJECT NUMBER 81.0220784.25
PROJECT LOCATION Rockford, Winnebago County, IL
DATE STARTED 7/17/25 **COMPLETED** 7/17/25
GROUND ELEVATION ~716 +/- 2' **HOLE SIZE** 3-1/4" inches
DRILLING CONTRACTOR None
DRILLING METHOD Hand Auger
LOGGED BY MR **CHECKED BY** JJR
DRILL RIG None

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	DEPTH INTERVAL (ft)	PID RESULTS	RECOVERY (ft)
0		SILTY CLAY (CL-ML/TOPSOIL); low plasticity; trace Root; some Gravel; dark brown, moist	1	S-1 (0-2)	0.0	2
1						
2		SILTY CLAY (CL-ML); low plasticity; trace Gravel; dark brown, moist				

End of boring at ~2' BGS. Boring immediately backfilled with remaining soil.

REMARKS

1. Sample Collected

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/13/25 16:37 - \\GZACHICAGOJOBS\81.0220766.00 TO 81.022079\81.0220784.25 IDOT 207-054 WO 25 15TH AVE ROCKFORD PSI\REPORTS\PSI\DRAFT\FIELD WORK\WO25.GPJ

GZA GeoEnvironmental, Inc.
915 Harger Road, Suite 330
Oak Brook, IL 60523
630-684-9100

BORING NUMBER 4013-2-02

CLIENT IDOT - Bureau of Design & Environment
PROJECT NAME IDOT 207-054 WO25 15th Ave Rockford PSI
PROJECT NUMBER 81.0220784.25
PROJECT LOCATION Rockford, Winnebago County, IL
DATE STARTED 7/17/25 **COMPLETED** 7/17/25
GROUND ELEVATION ~715 +/- 2' **HOLE SIZE** 3-1/4" inches
DRILLING CONTRACTOR None
DRILLING METHOD Hand Auger
LOGGED BY MR **CHECKED BY** JJR
DRILL RIG None

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	DEPTH INTERVAL (ft)	PID RESULTS	RECOVERY (ft)
0		Well-graded SANDY GRAVEL (GWS/URBAN FILL: Coal); brown and gray	1	S-1 (0-2)	0.0	2
1		SANDY CLAY (CLS); low plasticity; very-fine Sand; some Gravel; brown and dark brown, moist				
2		End of boring at ~2' BGS. Boring immediately backfilled with remaining soil.				

REMARKS

1. Sample Collected

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/13/25 16:37 - \\GZACHICAGOJOBS\81.0220766.00 TO 81.022079\81.0220784.25 IDOT 207-054 WO 25 15TH AVE ROCKFORD PSI\REPORTS\PSI\DRAFT\FIELD WORK\WO25.GPJ

GZA GeoEnvironmental, Inc.
915 Harger Road, Suite 330
Oak Brook, IL 60523
630-684-9100

BORING NUMBER 4013-4-01

CLIENT IDOT - Bureau of Design & Environment
PROJECT NAME IDOT 207-054 WO25 15th Ave Rockford PSI
PROJECT NUMBER 81.0220784.25
PROJECT LOCATION Rockford, Winnebago County, IL
DATE STARTED 7/17/25 **COMPLETED** 7/17/25
GROUND ELEVATION ~717 +/- 2' **HOLE SIZE** 3-1/4" inches
DRILLING CONTRACTOR None
DRILLING METHOD Hand Auger
LOGGED BY MR **CHECKED BY** JJR
DRILL RIG None

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	DEPTH INTERVAL (ft)	PID RESULTS	RECOVERY (ft)
0		SANDY CLAY (CLS/TOPSOIL); low plasticity; fine Sand; trace Root; some Gravel; brown, moist	1	S-1 (0-2)	0.0	2
1		SILTY CLAY (CL-ML); low plasticity; trace Gravel; dark brown, moist				
2		End of boring at ~2' BGS. Boring immediately backfilled with remaining soil.				

REMARKS

1. Sample Collected

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/13/25 16:37 - \\GZACHICAGOJOBS\81.0220766.00 TO 81.022079\81.0220784.25 IDOT 207-054 WO 25 15TH AVE ROCKFORD PSI\REPORTS\PSI\DRAFT\FIELD WORK\WO25.GPJ

GZA GeoEnvironmental, Inc.
915 Harger Road, Suite 330
Oak Brook, IL 60523
630-684-9100

BORING NUMBER 4013-6-01

CLIENT IDOT - Bureau of Design & Environment
PROJECT NAME IDOT 207-054 WO25 15th Ave Rockford PSI
PROJECT NUMBER 81.0220784.25
PROJECT LOCATION Rockford, Winnebago County, IL
DATE STARTED 7/17/25 **COMPLETED** 7/17/25
GROUND ELEVATION ~717 +/- 2' **HOLE SIZE** 3-1/4" inches
DRILLING CONTRACTOR None
DRILLING METHOD Hand Auger
LOGGED BY MR **CHECKED BY** JJR
DRILL RIG None

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	DEPTH INTERVAL (ft)	PID RESULTS	RECOVERY (ft)
0		SILTY CLAY (CL-ML/TOPSOIL); low plasticity; trace Root and Gravel; brown, moist	1	S-1 (0-2)	0.0	2
1		SILTY CLAY (CL-ML); low plasticity; trace Gravel; brown, moist				
2		End of boring at ~2' BGS. Boring immediately backfilled with remaining soil.				

REMARKS

1. Sample Collected

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/13/25 16:37 - \\GZACHICAGOJOBS\81.0220766.00 TO 81.0220799\81.0220784.25 IDOT 207-054 WO 25 15TH AVE ROCKFORD PSI\REPORTS\PSI\DRAFT\FIELD WORK\WO25.GPJ

GZA GeoEnvironmental, Inc.
915 Harger Road, Suite 330
Oak Brook, IL 60523
630-684-9100

BORING NUMBER 4013-7-01

CLIENT IDOT - Bureau of Design & Environment
PROJECT NAME IDOT 207-054 WO25 15th Ave Rockford PSI
PROJECT NUMBER 81.0220784.25
PROJECT LOCATION Rockford, Winnebago County, IL
DATE STARTED 7/17/25 **COMPLETED** 7/17/25
GROUND ELEVATION ~715 +/- 2' **HOLE SIZE** 3-1/4" inches
DRILLING CONTRACTOR None
DRILLING METHOD Hand Auger
LOGGED BY MR **CHECKED BY** JJR
DRILL RIG None

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	DEPTH INTERVAL (ft)	PID RESULTS	RECOVERY (ft)
0		SILTY CLAY (CL-ML/TOPSOIL); low plasticity; trace Root and Gravel; brown, moist	1	S-1 (0-2)	0.0	2
		SILTY CLAY (CL-ML); low plasticity; trace Gravel; brown, moist				
1						
2		End of boring at ~2' BGS. Boring immediately backfilled with remaining soil.				

REMARKS

1. Sample Collected

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/13/25 16:37 - \\GZACHICAGOJOBS\81.0220766.00 TO 81.0220799\81.0220784.25 IDOT 207-054 WO 25 15TH AVE ROCKFORD PSI\REPORTS\PSI\DRAFT\FIELD WORK\WO25.GPJ

GZA GeoEnvironmental, Inc.
915 Harger Road, Suite 330
Oak Brook, IL 60523
630-684-9100

BORING NUMBER 4013-7-02

CLIENT IDOT - Bureau of Design & Environment
PROJECT NAME IDOT 207-054 WO25 15th Ave Rockford PSI
PROJECT NUMBER 81.0220784.25
PROJECT LOCATION Rockford, Winnebago County, IL
DATE STARTED 7/17/25 **COMPLETED** 7/17/25
GROUND ELEVATION ~714 +/- 2' **HOLE SIZE** 3-1/4" inches
DRILLING CONTRACTOR None
DRILLING METHOD Hand Auger
LOGGED BY MR **CHECKED BY** JJR
DRILL RIG None

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	DEPTH INTERVAL (ft)	PID RESULTS	RECOVERY (ft)
0		SILTY CLAY (CL-ML/TOPSOIL); low plasticity; trace Root; some Gravel; brown, moist	1	S-1 (0-2)	0.0	2
1		SILTY CLAY (CL-ML); low plasticity; some Gravel; brown, moist				
2		End of boring at ~2' BGS. Boring immediately backfilled with remaining soil.				

REMARKS

1. Sample Collected

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/13/25 16:38 - \\GZACHICAGOJOBS\81.0220766.00 TO 81.0220799\81.0220784.25 IDOT 207-054 WO 25 15TH AVE ROCKFORD PSI\REPORTS\PSI\DRAFT\FIELD WORK\WO25.GPJ

GZA GeoEnvironmental, Inc.
915 Harger Road, Suite 330
Oak Brook, IL 60523
630-684-9100

BORING NUMBER 4013-7-03

CLIENT IDOT - Bureau of Design & Environment
PROJECT NAME IDOT 207-054 WO25 15th Ave Rockford PSI
PROJECT NUMBER 81.0220784.25
PROJECT LOCATION Rockford, Winnebago County, IL
DATE STARTED 7/17/25 **COMPLETED** 7/17/25
GROUND ELEVATION ~708 +/- 2' **HOLE SIZE** 3-1/4" inches
DRILLING CONTRACTOR None
DRILLING METHOD Hand Auger
LOGGED BY MR **CHECKED BY** JJR
DRILL RIG None

GROUND WATER LEVELS (ft, bgs):

DATE	TIME	DEPTH	CASING	STAB

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS	DEPTH INTERVAL (ft)	PID RESULTS	RECOVERY (ft)
0		SILTY CLAY (CL-ML/TOPSOIL); low plasticity; trace Root and Gravel; brown, moist	1	S-1 (0-2)	0.0	2
1		SILTY CLAY (CL-ML); low plasticity; trace Gravel; brown, moist				
2		End of boring at ~2' BGS. Boring immediately backfilled with remaining soil.				

REMARKS

1. Sample Collected

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/13/25 16:38 - \\GZACHICAGOJOBS\81.0220766.00 TO 81.0220799\81.0220784.25 IDOT 207-054 WO 25 15TH AVE ROCKFORD PSI\REPORTS\PSI\DRAFT\FIELD WORK\WO25.GPJ

APPENDIX D

LABORATORY ANALYTICAL REPORT

First Environmental Laboratories, Inc

IL ELAP / NELAC Certification # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • FirstEnv.com

August 13, 2025

Ms. Emily McGonigle
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
First Environmental File ID: 25-6401
Date Received: July 17, 2025

Dear Ms. Emily McGonigle:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number:

1002922025-14: effective 01/16/25 through 02/28/2026.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager

First
Environmental
Laboratories, Inc

IL ELAP / NELAC Certification # 100292

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Case Narrative

HUFF & HUFF INC.

Lab File ID: **25-6401**

Project ID: **IDOT 207-054 WO25 15thAve 81-0220784.**

Date Received: **July 17, 2025**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time Collected
25-6401-001	4013-2-01 (0-1)	7/17/2025 8:25
25-6401-002	4013-2-02 (0-1)	7/17/2025 9:40
25-6401-003	4013-4-01 (0-1)	7/17/2025 9:20
25-6401-004	4013-6-01 (0-1)	7/17/2025 8:32
25-6401-005	4013-7-01 (0-1)	7/17/2025 9:03
25-6401-006	4013-7-02 (0-1)	7/17/2025 10:30
25-6401-007	4013-7-03 (0-1)	7/17/2025 10:02
25-6401-008	Trip Blank	

Sample Batch Comments:

Sample acceptance criteria were met.

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Case Narrative

HUFF & HUFF INC.

Lab File ID: **25-6401**

Project ID: **IDOT 207-054 WO25 15thAve 81-0220784.**

Date Received: **July 17, 2025**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
I	ICVS % rec outside 95-105% but within 90-110%		
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-2-01 (0-1)
Sample No: 25-6401-001

Date Collected: 07/17/25
Time Collected: 8:25
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 07/18/25				
Total Solids	89.66		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 07/24/25				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,2-Dibromo-3-chloropropane	< 2.0	10.0	ug/kg	J J
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-2-01 (0-1)
Sample No: 25-6401-001

Date Collected: 07/17/25
Time Collected: 8:25
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 07/24/25				
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 07/22/25		Preparation Date: 07/21/25		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	489	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	1,760	330	ug/kg	
Benzo(a)pyrene	1,740	90	ug/kg	
Benzo(b)fluoranthene	2,520	330	ug/kg	
Benzo(k)fluoranthene	789	330	ug/kg	
Benzo(ghi)perylene	1,400	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
2,2'-oxybis(1-chloropropane)	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	1,800	330	ug/kg	
Dibenzo(a,h)anthracene	326	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-2-01 (0-1)
Sample No: 25-6401-001

Date Collected: 07/17/25
Time Collected: 8:25
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 07/22/25		**Preparation Method 3540C** Preparation Date: 07/21/25		
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	4,270	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	1,550	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-2-01 (0-1)
Sample No: 25-6401-001

Date Collected: 07/17/25
Time Collected: 8:25
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 07/22/25		**Preparation Method 3540C** Preparation Date: 07/21/25		
Phenanthrene	2,400	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	3,080	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
2,2'-Dichlorodiisopropyl ether	< 330	330	ug/kg	
Total Metals **Method: 6010C** Analysis Date: 07/23/25		**Preparation Method 3050B** Preparation Date: 07/21/25		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.1	1.0	mg/kg	
Boron	6.7	5.0	mg/kg	
Barium	74.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	20.7	0.5	mg/kg	
Cobalt	3.8	0.5	mg/kg	
Copper	40.1	0.5	mg/kg	
Iron	16,100	5.0	mg/kg	
Lead	93.9	0.5	mg/kg	
Magnesium	19,100	50	mg/kg	
Manganese	667	0.5	mg/kg	
Nickel	16.2	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.0	1.0	mg/kg	
Zinc	123	1.0	mg/kg	
Total Mercury **Method: 7471B** Analysis Date: 07/22/25				
Mercury	0.19	0.05	mg/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-2-01 (0-1)
Sample No: 25-6401-001

Date Collected: 07/17/25
Time Collected: 8:25
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Cyanide, Total **Method: 9010B/9014**				
Analysis Date: 07/22/25				
Cyanide, Total	< 0.10	0.10	mg/kg	
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 07/18/25 10:50				
pH @ 25°C, 1:2	8.71		Units	
TCLP Extraction **Method: 1311**				
Analysis Date: 07/21/25				
TCLP Extraction	Complete			
SPLP Extraction **Method: 1312**				
Analysis Date: 07/21/25				
SPLP Metals Extraction	Complete			

Sample QC Summary: ***Surrogate Recovery***

Method	*Analyte*	*QC Result*	*%R Limits Low*	*High*
5035A/8260B	*4-Bromofluorobenzene (Surr)*	*%R: 100.1*	*86*	*117*
5035A/8260B	*d8-Toluene (Surr)*	*%R: 105.3*	*90*	*110*
5035A/8260B	*Dibromofluoromethane (Surr)*	*%R: 105.2*	*77*	*120*
8270C	*2,4,6-Tribromophenol (Surr)*	*%R: 88*	*59*	*131*
8270C	*2-Fluorobiphenyl (Surr)*	*%R: 92*	*45*	*112*
8270C	*2-Fluorophenol (Surr)*	*%R: 71*	*41*	*84*
8270C	*d14-Terphenyl (Surr)*	*%R: 96*	*56*	*120*
8270C	*d5-Nitrobenzene (Surr)*	*%R: 82*	*35*	*105*
8270C	*Phenol-d5 (surr)*	*%R: 81.5*	*50*	*100*

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-2-02 (0-1)
Sample No: 25-6401-002

Date Collected: 07/17/25
Time Collected: 9:40
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 07/18/25				
Total Solids	86.56		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 07/22/25				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,2-Dibromo-3-chloropropane	< 2.0	10.0	ug/kg	J J
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	17.3	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-2-02 (0-1)
Sample No: 25-6401-002

Date Collected: 07/17/25
Time Collected: 9:40
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 07/22/25				
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 07/22/25		Preparation Date: 07/21/25		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	599	330	ug/kg	
Benzo(a)pyrene	604	90	ug/kg	
Benzo(b)fluoranthene	841	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	480	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
2,2'-oxybis(1-chloropropane)	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	263,000	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	613	330	ug/kg	
Dibenzo(a,h)anthracene	118	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-2-02 (0-1)
Sample No: 25-6401-002

Date Collected: 07/17/25
Time Collected: 9:40
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 07/22/25		**Preparation Method 3540C** Preparation Date: 07/21/25		
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	1,210	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	527	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-2-02 (0-1)
Sample No: 25-6401-002

Date Collected: 07/17/25
Time Collected: 9:40
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 07/22/25		Preparation Date: 07/21/25		
Phenanthrene	484	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	953	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
2,2'-Dichlorodiisopropyl ether	< 330	330	ug/kg	
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/23/25		Preparation Date: 07/21/25		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.9	1.0	mg/kg	
Boron	< 5.0	5.0	mg/kg	
Barium	104	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.2	0.5	mg/kg	
Chromium	11.9	0.5	mg/kg	
Cobalt	3.7	0.5	mg/kg	
Copper	62.5	0.5	mg/kg	
Iron	9,340	5.0	mg/kg	
Lead	90.0	0.5	mg/kg	
Magnesium	18,400	50	mg/kg	
Manganese	362	0.5	mg/kg	
Nickel	10.3	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	1.5	0.2	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	14.5	1.0	mg/kg	
Zinc	123	1.0	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 07/22/25				
Mercury	0.14	0.05	mg/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-2-02 (0-1)
Sample No: 25-6401-002

Date Collected: 07/17/25
Time Collected: 9:40
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Cyanide, Total **Method: 9010B/9014**				
Analysis Date: 07/22/25				
Cyanide, Total	< 0.10	0.10	mg/kg	
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 07/18/25 10:50				
pH @ 25°C, 1:2	8.79		Units	
TCLP Extraction **Method: 1311**				
Analysis Date: 07/21/25				
TCLP Extraction	Complete			
SPLP Extraction **Method: 1312**				
Analysis Date: 07/21/25				
SPLP Metals Extraction	Complete			

Sample QC Summary: ***Surrogate Recovery***

Method	*Analyte*	*QC Result*		*%R Limits Low*	*High*
5035A/8260B	*4-Bromofluorobenzene (Surr)*	*%R: 132.3*	*	*86*	*117*
5035A/8260B	*d8-Toluene (Surr)*	*%R: 103.8*		*90*	*110*
5035A/8260B	*Dibromofluoromethane (Surr)*	*%R: 95.4*		*77*	*120*
8270C	*2,4,6-Tribromophenol (Surr)*	*%R: 76.5*		*59*	*131*
8270C	*2-Fluorobiphenyl (Surr)*	*%R: 76*		*45*	*112*
8270C	*2-Fluorophenol (Surr)*	*%R: 53*		*41*	*84*
8270C	*d14-Terphenyl (Surr)*	*%R: 80*		*56*	*120*
8270C	*d5-Nitrobenzene (Surr)*	*%R: 68*		*35*	*105*
8270C	*Phenol-d5 (surr)*	*%R: 62.5*		*50*	*100*

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-4-01 (0-1)
Sample No: 25-6401-003

Date Collected: 07/17/25
Time Collected: 9:20
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 07/18/25				
Total Solids	83.57		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 07/24/25				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,2-Dibromo-3-chloropropane	< 2.0	10.0	ug/kg	J J
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-4-01 (0-1)
Sample No: 25-6401-003

Date Collected: 07/17/25
Time Collected: 9:20
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 07/24/25				
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 07/22/25		Preparation Date: 07/21/25		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	625	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	2,220	330	ug/kg	
Benzo(a)pyrene	2,050	90	ug/kg	
Benzo(b)fluoranthene	2,710	330	ug/kg	
Benzo(k)fluoranthene	964	330	ug/kg	
Benzo(ghi)perylene	1,510	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
2,2'-oxybis(1-chloropropane)	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	2,200	330	ug/kg	
Dibenzo(a,h)anthracene	374	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-4-01 (0-1)
Sample No: 25-6401-003

Date Collected: 07/17/25
Time Collected: 9:20
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 07/22/25		**Preparation Method 3540C** Preparation Date: 07/21/25		
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	4,800	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	1,700	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-4-01 (0-1)
Sample No: 25-6401-003

Date Collected: 07/17/25
Time Collected: 9:20
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 07/22/25		Preparation Date: 07/21/25		
Phenanthrene	2,410	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	3,720	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
2,2'-Dichlorodiisopropyl ether	< 330	330	ug/kg	
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 07/23/25		Preparation Date: 07/21/25		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.5	1.0	mg/kg	
Boron	7.1	5.0	mg/kg	
Barium	110	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	9.5	0.5	mg/kg	
Cobalt	5.5	0.5	mg/kg	
Copper	10.4	0.5	mg/kg	
Iron	12,000	5.0	mg/kg	
Lead	40.7	0.5	mg/kg	
Magnesium	13,700	50	mg/kg	
Manganese	659	0.5	mg/kg	
Nickel	11.0	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.5	1.0	mg/kg	
Zinc	75.7	1.0	mg/kg	
Total Mercury **Method: 7471B**				
Analysis Date: 07/22/25				
Mercury	< 0.05	0.05	mg/kg	

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Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-4-01 (0-1)
Sample No: 25-6401-003

Date Collected: 07/17/25
Time Collected: 9:20
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Cyanide, Total **Method: 9010B/9014**				
Analysis Date: 07/22/25				
Cyanide, Total	< 0.10	0.10	mg/kg	
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 07/18/25 10:50				
pH @ 25°C, 1:2	8.04		Units	
TCLP Extraction **Method: 1311**				
Analysis Date: 07/21/25				
TCLP Extraction	Complete			
SPLP Extraction **Method: 1312**				
Analysis Date: 07/21/25				
SPLP Metals Extraction	Complete			

Sample QC Summary: ***Surrogate Recovery***

Method	*Analyte*	*QC Result*	*%R Limits Low*	*High*
5035A/8260B	*4-Bromofluorobenzene (Surr)*	*%R: 99.5*	*86*	*117*
5035A/8260B	*d8-Toluene (Surr)*	*%R: 98.4*	*90*	*110*
5035A/8260B	*Dibromofluoromethane (Surr)*	*%R: 96.7*	*77*	*120*
8270C	*2,4,6-Tribromophenol (Surr)*	*%R: 76.5*	*59*	*131*
8270C	*2-Fluorobiphenyl (Surr)*	*%R: 81*	*45*	*112*
8270C	*2-Fluorophenol (Surr)*	*%R: 60.5*	*41*	*84*
8270C	*d14-Terphenyl (Surr)*	*%R: 85*	*56*	*120*
8270C	*d5-Nitrobenzene (Surr)*	*%R: 75*	*35*	*105*
8270C	*Phenol-d5 (surr)*	*%R: 72.5*	*50*	*100*

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-6-01 (0-1)
Sample No: 25-6401-004

Date Collected: 07/17/25
Time Collected: 8:32
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 07/18/25				
Total Solids	86.37		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 07/22/25				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,2-Dibromo-3-chloropropane	< 2.0	10.0	ug/kg	J J
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-6-01 (0-1)
Sample No: 25-6401-004

Date Collected: 07/17/25
Time Collected: 8:32
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 07/22/25				
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 07/22/25		Preparation Date: 07/21/25		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	389	330	ug/kg	
Benzo(a)pyrene	484	90	ug/kg	
Benzo(b)fluoranthene	741	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	463	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
2,2'-oxybis(1-chloropropane)	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	497	330	ug/kg	
Dibenzo(a,h)anthracene	104	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-6-01 (0-1)
Sample No: 25-6401-004

Date Collected: 07/17/25
Time Collected: 8:32
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 07/22/25		**Preparation Method 3540C** Preparation Date: 07/21/25		
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	863	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	503	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-6-01 (0-1)
Sample No: 25-6401-004

Date Collected: 07/17/25
Time Collected: 8:32
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 07/22/25		**Preparation Method 3540C** Preparation Date: 07/21/25		
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	662	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
2,2'-Dichlorodiisopropyl ether	< 330	330	ug/kg	
Total Metals **Method: 6010C** Analysis Date: 07/23/25		**Preparation Method 3050B** Preparation Date: 07/21/25		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.1	1.0	mg/kg	
Boron	< 5.0	5.0	mg/kg	
Barium	106	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	13.0	0.5	mg/kg	
Cobalt	7.9	0.5	mg/kg	
Copper	10.6	0.5	mg/kg	
Iron	14,000	5.0	mg/kg	
Lead	26.2	0.5	mg/kg	
Magnesium	10,200	50	mg/kg	
Manganese	661	0.5	mg/kg	
Nickel	12.2	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.8	1.0	mg/kg	
Zinc	44.0	1.0	mg/kg	
Total Mercury **Method: 7471B** Analysis Date: 07/22/25				
Mercury	< 0.05	0.05	mg/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-6-01 (0-1)
Sample No: 25-6401-004

Date Collected: 07/17/25
Time Collected: 8:32
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Cyanide, Total **Method: 9010B/9014**				
Analysis Date: 07/22/25				
Cyanide, Total	< 0.10	0.10	mg/kg	
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 07/18/25 10:50				
pH @ 25°C, 1:2	7.99		Units	
TCLP Extraction **Method: 1311**				
Analysis Date: 07/21/25				
TCLP Extraction	Complete			
SPLP Extraction **Method: 1312**				
Analysis Date: 07/21/25				
SPLP Metals Extraction	Complete			

Sample QC Summary: ***Surrogate Recovery***

Method	*Analyte*	*QC Result*	*%R Limits Low*	*High*
5035A/8260B	*4-Bromofluorobenzene (Surr)*	*%R: 112.2*	*86*	*117*
5035A/8260B	*d8-Toluene (Surr)*	*%R: 103.9*	*90*	*110*
5035A/8260B	*Dibromofluoromethane (Surr)*	*%R: 99.7*	*77*	*120*
8270C	*2,4,6-Tribromophenol (Surr)*	*%R: 77.5*	*59*	*131*
8270C	*2-Fluorobiphenyl (Surr)*	*%R: 83*	*45*	*112*
8270C	*2-Fluorophenol (Surr)*	*%R: 62.5*	*41*	*84*
8270C	*d14-Terphenyl (Surr)*	*%R: 86*	*56*	*120*
8270C	*d5-Nitrobenzene (Surr)*	*%R: 72*	*35*	*105*
8270C	*Phenol-d5 (surr)*	*%R: 70.5*	*50*	*100*

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-7-01 (0-1)
Sample No: 25-6401-005

Date Collected: 07/17/25
Time Collected: 9:03
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 07/18/25				
Total Solids	85.21		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 07/24/25				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,2-Dibromo-3-chloropropane	< 2.0	10.0	ug/kg	J J
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-7-01 (0-1)
Sample No: 25-6401-005

Date Collected: 07/17/25
Time Collected: 9:03
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 07/24/25				
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 07/22/25		Preparation Date: 07/21/25		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
2,2'-oxybis(1-chloropropane)	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-7-01 (0-1)
Sample No: 25-6401-005

Date Collected: 07/17/25
Time Collected: 9:03
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 07/22/25		**Preparation Method 3540C** Preparation Date: 07/21/25		
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-7-01 (0-1)
Sample No: 25-6401-005

Date Collected: 07/17/25
Time Collected: 9:03
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 07/22/25		**Preparation Method 3540C** Preparation Date: 07/21/25		
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
2,2'-Dichlorodiisopropyl ether	< 330	330	ug/kg	
Total Metals **Method: 6010C** Analysis Date: 07/23/25		**Preparation Method 3050B** Preparation Date: 07/21/25		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.5	1.0	mg/kg	
Boron	< 5.0	5.0	mg/kg	
Barium	188	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	13.2	0.5	mg/kg	
Cobalt	8.1	0.5	mg/kg	
Copper	10.9	0.5	mg/kg	
Iron	13,700	5.0	mg/kg	
Lead	13.3	0.5	mg/kg	
Magnesium	2,900	50	mg/kg	
Manganese	979	0.5	mg/kg	
Nickel	11.7	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.6	1.0	mg/kg	
Zinc	55.1	1.0	mg/kg	
Total Mercury **Method: 7471B** Analysis Date: 07/22/25				
Mercury	0.07	0.05	mg/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-7-01 (0-1)
Sample No: 25-6401-005

Date Collected: 07/17/25
Time Collected: 9:03
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Cyanide, Total **Method: 9010B/9014**				
Analysis Date: 07/22/25				
Cyanide, Total	0.14	0.10	mg/kg	
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 07/18/25 10:50				
pH @ 25°C, 1:2	8.48		Units	
TCLP Extraction **Method: 1311**				
Analysis Date: 07/21/25				
TCLP Extraction	Complete			
SPLP Extraction **Method: 1312**				
Analysis Date: 07/21/25				
SPLP Metals Extraction	Complete			

Sample QC Summary: ***Surrogate Recovery***

Method	*Analyte*	*QC Result*	*%R Limits Low*	*High*
5035A/8260B	*4-Bromofluorobenzene (Surr)*	*%R: 99.4*	*86*	*117*
5035A/8260B	*d8-Toluene (Surr)*	*%R: 98.4*	*90*	*110*
5035A/8260B	*Dibromofluoromethane (Surr)*	*%R: 100*	*77*	*120*
8270C	*2,4,6-Tribromophenol (Surr)*	*%R: 83.5*	*59*	*131*
8270C	*2-Fluorobiphenyl (Surr)*	*%R: 84*	*45*	*112*
8270C	*2-Fluorophenol (Surr)*	*%R: 53*	*41*	*84*
8270C	*d14-Terphenyl (Surr)*	*%R: 88*	*56*	*120*
8270C	*d5-Nitrobenzene (Surr)*	*%R: 68*	*35*	*105*
8270C	*Phenol-d5 (surr)*	*%R: 68.5*	*50*	*100*

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-7-02 (0-1)
Sample No: 25-6401-006

Date Collected: 07/17/25
Time Collected: 10:30
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 07/18/25				
Total Solids	88.29		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 07/24/25				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,2-Dibromo-3-chloropropane	< 2.0	10.0	ug/kg	J J
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-7-02 (0-1)
Sample No: 25-6401-006

Date Collected: 07/17/25
Time Collected: 10:30
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 07/24/25				
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 07/22/25		Preparation Date: 07/21/25		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
2,2'-oxybis(1-chloropropane)	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-7-02 (0-1)
Sample No: 25-6401-006

Date Collected: 07/17/25
Time Collected: 10:30
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 07/22/25		**Preparation Method 3540C** Preparation Date: 07/21/25		
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-7-02 (0-1)
Sample No: 25-6401-006

Date Collected: 07/17/25
Time Collected: 10:30
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 07/22/25		**Preparation Method 3540C** Preparation Date: 07/21/25		
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
2,2'-Dichlorodiisopropyl ether	< 330	330	ug/kg	
Total Metals **Method: 6010C** Analysis Date: 07/23/25		**Preparation Method 3050B** Preparation Date: 07/21/25		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.8	1.0	mg/kg	
Boron	< 5.0	5.0	mg/kg	
Barium	132	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	12.5	0.5	mg/kg	
Cobalt	7.2	0.5	mg/kg	
Copper	9.4	0.5	mg/kg	
Iron	14,500	5.0	mg/kg	
Lead	13.9	0.5	mg/kg	
Magnesium	1,820	50	mg/kg	
Manganese	716	0.5	mg/kg	
Nickel	10.9	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.6	1.0	mg/kg	
Zinc	48.1	1.0	mg/kg	
Total Mercury **Method: 7471B** Analysis Date: 07/23/25				
Mercury	< 0.05	0.05	mg/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-7-02 (0-1)
Sample No: 25-6401-006

Date Collected: 07/17/25
Time Collected: 10:30
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Cyanide, Total **Method: 9010B/9014**				
Analysis Date: 07/22/25				
Cyanide, Total	< 0.10	0.10	mg/kg	
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 07/18/25 10:50				
pH @ 25°C, 1:2	8.65		Units	
TCLP Extraction **Method: 1311**				
Analysis Date: 07/21/25				
TCLP Extraction	Complete			
SPLP Extraction **Method: 1312**				
Analysis Date: 07/21/25				
SPLP Metals Extraction	Complete			

Sample QC Summary: ***Surrogate Recovery***

Method	*Analyte*	*QC Result*	*%R Limits Low*	*High*
5035A/8260B	*4-Bromofluorobenzene (Surr)*	*%R: 99.5*	*86*	*117*
5035A/8260B	*d8-Toluene (Surr)*	*%R: 99*	*90*	*110*
5035A/8260B	*Dibromofluoromethane (Surr)*	*%R: 99.8*	*77*	*120*
8270C	*2,4,6-Tribromophenol (Surr)*	*%R: 67*	*59*	*131*
8270C	*2-Fluorobiphenyl (Surr)*	*%R: 64*	*45*	*112*
8270C	*2-Fluorophenol (Surr)*	*%R: 48.5*	*41*	*84*
8270C	*d14-Terphenyl (Surr)*	*%R: 70*	*56*	*120*
8270C	*d5-Nitrobenzene (Surr)*	*%R: 53*	*35*	*105*
8270C	*Phenol-d5 (surr)*	*%R: 55*	*50*	*100*

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-7-03 (0-1)
Sample No: 25-6401-007

Date Collected: 07/17/25
Time Collected: 10:02
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 07/18/25				
Total Solids	92.71		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 07/24/25				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,2-Dibromo-3-chloropropane	< 2.0	10.0	ug/kg	J J
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-7-03 (0-1)
Sample No: 25-6401-007

Date Collected: 07/17/25
Time Collected: 10:02
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 07/24/25				
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 07/22/25		Preparation Date: 07/21/25		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	188	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
2,2'-oxybis(1-chloropropane)	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-7-03 (0-1)
Sample No: 25-6401-007

Date Collected: 07/17/25
Time Collected: 10:02
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 07/22/25		**Preparation Method 3540C** Preparation Date: 07/21/25		
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	422	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-7-03 (0-1)
Sample No: 25-6401-007

Date Collected: 07/17/25
Time Collected: 10:02
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 07/22/25		**Preparation Method 3540C** Preparation Date: 07/21/25		
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
2,2'-Dichlorodiisopropyl ether	< 330	330	ug/kg	
Total Metals **Method: 6010C** Analysis Date: 07/23/25		**Preparation Method 3050B** Preparation Date: 07/21/25		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.4	1.0	mg/kg	
Boron	< 5.0	5.0	mg/kg	
Barium	38.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Chromium	7.0	0.5	mg/kg	
Cobalt	2.2	0.5	mg/kg	
Copper	11.0	0.5	mg/kg	
Iron	8,330	5.0	mg/kg	
Lead	29.1	0.5	mg/kg	
Magnesium	45,600	50	mg/kg	
Manganese	269	0.5	mg/kg	
Nickel	6.5	0.5	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	10.3	1.0	mg/kg	
Zinc	32.3	1.0	mg/kg	
Total Mercury **Method: 7471B** Analysis Date: 07/23/25				
Mercury	< 0.05	0.05	mg/kg	

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: 4013-7-03 (0-1)
Sample No: 25-6401-007

Date Collected: 07/17/25
Time Collected: 10:02
Date Received: 07/17/25
Date Reported: 07/25/25

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Cyanide, Total **Method: 9010B/9014**				
Analysis Date: 07/22/25				
Cyanide, Total	< 0.10	0.10	mg/kg	
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 07/18/25 10:50				
pH @ 25°C, 1:2	8.29		Units	
TCLP Extraction **Method: 1311**				
Analysis Date: 07/21/25				
TCLP Extraction	Complete			
SPLP Extraction **Method: 1312**				
Analysis Date: 07/21/25				
SPLP Metals Extraction	Complete			

Sample QC Summary: ***Surrogate Recovery***

Method	*Analyte*	*QC Result*	*%R Limits Low*	*High*
5035A/8260B	*4-Bromofluorobenzene (Surr)*	*%R: 98.7*	*86*	*117*
5035A/8260B	*d8-Toluene (Surr)*	*%R: 99.5*	*90*	*110*
5035A/8260B	*Dibromofluoromethane (Surr)*	*%R: 99.1*	*77*	*120*
8270C	*2,4,6-Tribromophenol (Surr)*	*%R: 86*	*59*	*131*
8270C	*2-Fluorobiphenyl (Surr)*	*%R: 94*	*45*	*112*
8270C	*2-Fluorophenol (Surr)*	*%R: 71*	*41*	*84*
8270C	*d14-Terphenyl (Surr)*	*%R: 94*	*56*	*120*
8270C	*d5-Nitrobenzene (Surr)*	*%R: 81*	*35*	*105*
8270C	*Phenol-d5 (surr)*	*%R: 79.5*	*50*	*100*

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25
Sample ID: Trip Blank
Sample No: 25-6401-008

Date Collected:
Time Collected:
Date Received: 07/17/25
Date Reported: 07/25/25

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5030B/8260B** Analysis Date: 07/18/25				
Acetone	< 100	100	ug/L	
Benzene	< 5.0	5.0	ug/L	
Bromodichloromethane	< 1.0	1.0	ug/L	
Bromoform	< 1.0	1.0	ug/L	
Bromomethane	< 5.0	5.0	ug/L	
2-Butanone (MEK)	< 10.0	10.0	ug/L	
Carbon disulfide	< 5.0	5.0	ug/L	
Carbon tetrachloride	< 5.0	5.0	ug/L	
Chlorobenzene	< 5.0	5.0	ug/L	
Chlorodibromomethane	< 1.0	1.0	ug/L	
Chloroethane	< 10.0	10.0	ug/L	
Chloroform	< 1.0	1.0	ug/L	
Chloromethane	< 10.0	10.0	ug/L	
1,1-Dichloroethane	< 5.0	5.0	ug/L	
1,2-Dichloroethane	< 5.0	5.0	ug/L	
1,1-Dichloroethene	< 5.0	5.0	ug/L	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/L	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/L	
1,2-Dichloropropane	< 5.0	5.0	ug/L	
cis-1,3-Dichloropropene	< 1.0	1.0	ug/L	
trans-1,3-Dichloropropene	< 1.0	5.0	ug/L	J
Ethylbenzene	< 5.0	5.0	ug/L	
2-Hexanone	< 10.0	10.0	ug/L	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/L	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/L	
Methylene chloride	< 5.0	5.0	ug/L	
Styrene	< 5.0	5.0	ug/L	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/L	
Tetrachloroethene	< 5.0	5.0	ug/L	
Toluene	< 5.0	5.0	ug/L	
1,1,1-Trichloroethane	< 5.0	5.0	ug/L	
1,1,2-Trichloroethane	< 5.0	5.0	ug/L	
Trichloroethene	< 5.0	5.0	ug/L	
Vinyl acetate	< 10.0	10.0	ug/L	
Vinyl chloride	< 2.0	2.0	ug/L	

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Analytical Report

Client:	HUFF & HUFF INC.	**Date Collected:**	
Project ID:	IDOT 207-054 WO25 15thAve 81-0220784.25	**Time Collected:**	
Sample ID:	Trip Blank	**Date Received:**	07/17/25
Sample No:	25-6401-008	**Date Reported:**	07/25/25

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5030B/8260B**				
Analysis Date: 07/18/25				
Xylene, Total	< 5.0	5.0	ug/L	

Sample QC Summary: ***Surrogate Recovery***

Method	*Analyte*	*QC Result*	*%R Limits Low*	*High*
5030B/8260B	*4-Bromofluorobenzene (Surr)*	*%R: 95.6*	*70*	*124*
5030B/8260B	*d8-Toluene (Surr)*	*%R: 99.6*	*90*	*112*
5030B/8260B	*Dibromofluoromethane (Surr)*	*%R: 105*	*85*	*118*

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Quality Control Summary

Client: HUFF & HUFF INC. **Lab File ID:** 25-6401

Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25

QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD	RPD Limit
Parameter: Cyanide, Total		**Analytical Method:** 9010B/9014			**Analytical WS #:** 260768		**Analysis Date:** 7/22/2025		
25-6401-001MS	MS	Cyanide, Total	3.38	mg/kg	%R: 86.7	75	125		
25-6401-001MSD	MSD	Cyanide, Total	4.07	mg/kg	%R: 104.4	75	125	RPD: 19	20
CCB972408	CB	Cyanide, Total	< 0.005	mg/L	0	-			
CCB972409	CB	Cyanide, Total	< 0.005	mg/L	0	-			
CCB972410	CB	Cyanide, Total	< 0.005	mg/L	0	-			
CCVS972411	CCVS	Cyanide, Total	0.483	mg/L	%R: 96.6	90	110		
CCVS972412	CCVS	Cyanide, Total	0.481	mg/L	%R: 96.2	90	110		
CCVS972413	CCVS	Cyanide, Total	0.480	mg/L	%R: 96	90	110		
LCS972414	LCS	Cyanide, Total	0.456	mg/L	%R: 91.2	80	120		
PB972417	PB	Cyanide, Total	< 0.005	mg/L	0	-			

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

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Quality Control Summary

Client: HUFF & HUFF INC. **Lab File ID:** 25-6401

Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25

QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD Limit
Parameter:	pH @ 25°C, 1:2	**Analytical Method:**	9045D		**Analytical WS #:** 260647	**Analysis Date:**	7/18/2025	
25-6314-001DUP	DUP	pH @ 25°C	8.04	Units	RPD: 0.6	-		20
25-6330-001DUP	DUP	pH @ 25°C	7.52	Units	RPD: 0.3	-		20
25-6386-001DUP	DUP	pH @ 25°C	8.28	Units	RPD: 0.4	-		20
25-6401-003DUP	DUP	pH @ 25°C	8.12	Units	RPD: 1	-		20
25-6403-001DUP	DUP	pH @ 25°C	7.57	Units	RPD: 0.5	-		20
CCVS971888	CCVS	pH @ 25°C	6.93	Units	%R: 99	98.6 -	101.4	
CCVS971889	CCVS	pH @ 25°C	7.00	Units	%R: 100	98.6 -	101.4	
ICVS971891	ICVS	pH @ 25°C	6.98	Units	%R: 99.7	98.6 -	101.4	
ICVS971892	ICVS	pH @ 25°C	6.97	Units	%R: 99.6	98.6 -	101.4	

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

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Quality Control Summary

Client: HUFF & HUFF INC. **Lab File ID:** 25-6401

Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25

QC Lab#	QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low High	RPD Limit
Parameter: Total Metals		**Analytical Method:** 6010C		**Analytical WS #:** 260846		**Analysis Date:** 7/23/2025	
		Prep Method: 3050B		**Prep WS#:** 45356		**Prep Date:** 7/21/2025	
25-6401-003MS	MS	Antimony	0.1272	mg/L	%R: 50.9 *	75 - 125	
		Matrix spike recovery outside control limits; LCS acceptable.					
	MS	Arsenic	0.2523	mg/L	%R: 85.8	75 - 125	
	MS	Barium	1.2050	mg/L	%R: 113.9	75 - 125	
	MS	Beryllium	0.2355	mg/L	%R: 92.6	75 - 125	
	MS	Boron	0.2553	mg/L	%R: 78.5	75 - 125	
	MS	Cadmium	0.2147	mg/L	%R: 84.6	75 - 125	
	MS	Chromium	0.3187	mg/L	%R: 95.8	75 - 125	
	MS	Cobalt	0.2731	mg/L	%R: 91	75 - 125	
	MS	Copper	0.3973	mg/L	%R: 124.3	75 - 125	
	MS	Iron	110	mg/L	%R: 100.5	75 - 125	
	MS	Lead	0.7185	mg/L	%R: 151.4 *	75 - 125	
		Matrix spike recovery outside control limits; LCS acceptable.					
	MS	Magnesium	58.71	mg/L	%R: -223.2 *	75 - 125	
		Matrix spike recovery outside control limits; LCS acceptable.					
	MS	Manganese	6.3570	mg/L	%R: 339.6 *	75 - 125	
		Matrix spike recovery outside control limits; LCS acceptable.					
	MS	Nickel	0.3309	mg/L	%R: 95.7	75 - 125	
	MS	Selenium	0.2287	mg/L	%R: 91.6	75 - 125	
	MS	Silver	0.2607	mg/L	%R: 104.1	75 - 125	
	MS	Thallium	0.1846	mg/L	%R: 72.8 *	75 - 125	
		Matrix spike recovery outside control limits; LCS acceptable.					

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

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Quality Control Summary

Client: HUFF & HUFF INC. **Lab File ID:** 25-6401

Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25

QC Lab#	QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD Limit
25-6401-003MS	MS	Vanadium	0.3964	mg/L	%R: 93.4	75	125	
	MS	Zinc	0.8884	mg/L	%R: 102.4	75	125	
25-6401-003MSD	MSD	Antimony	0.1284	mg/L	%R: 51.4 *	75	125	RPD: 1
		Matrix spike recovery outside control limits; LCS acceptable.						
	MSD	Arsenic	0.2522	mg/L	%R: 85.7	75	125	RPD: 0
	MSD	Barium	1.3370	mg/L	%R: 166.7 *	75	125	RPD: 10
		Matrix spike recovery outside control limits; LCS acceptable.						
	MSD	Beryllium	0.2415	mg/L	%R: 95	75	125	RPD: 3
	MSD	Boron	0.2431	mg/L	%R: 73.6 *	75	125	RPD: 5
		Matrix spike recovery outside control limits; LCS acceptable.						
	MSD	Cadmium	0.2180	mg/L	%R: 85.9	75	125	RPD: 2
	MSD	Chromium	0.3272	mg/L	%R: 99.2	75	125	RPD: 3
	MSD	Cobalt	0.2723	mg/L	%R: 90.7	75	125	RPD: 0
	MSD	Copper	0.3435	mg/L	%R: 102.8	75	125	RPD: 15
	MSD	Iron	114	mg/L	%R: 139.9 *	75	125	RPD: 4
		Matrix spike recovery outside control limits; LCS acceptable.						
	MSD	Lead	0.5638	mg/L	%R: 89.5	75	125	RPD: 24
		RPD outside control limits.						
	MSD	Magnesium	55.85	mg/L	%R: -234.6 *	75	125	RPD: 5
		Matrix spike recovery outside control limits; LCS acceptable.						
	MSD	Manganese	4.6650	mg/L	%R: -337.2 *	75	125	RPD: 31
		Matrix spike recovery outside control limits; LCS acceptable.						
	MSD	Nickel	0.3209	mg/L	%R: 91.7	75	125	RPD: 3
	MSD	Selenium	0.2338	mg/L	%R: 93.6	75	125	RPD: 2
	MSD	Silver	0.2667	mg/L	%R: 106.5	75	125	RPD: 2

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

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Quality Control Summary

Client: HUFF & HUFF INC. **Lab File ID:** 25-6401

Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25

QC Lab#	QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD Limit
25-6401-003MSD	MSD	Thallium	0.1898	mg/L	%R: 74.9 *	75	125	RPD: 3
		Matrix spike recovery outside control limits; LCS acceptable.						
	MSD	Vanadium	0.4226	mg/L	%R: 103.9	75	125	RPD: 6
	MSD	Zinc	0.8640	mg/L	%R: 92.7	75	125	RPD: 3
LCS972599	LCS	Antimony	0.2404	mg/L	%R: 96.2	80	120	
	LCS	Arsenic	0.2406	mg/L	%R: 96.2	80	120	
	LCS	Barium	0.2348	mg/L	%R: 93.9	80	120	
	LCS	Beryllium	0.2467	mg/L	%R: 98.7	80	120	
	LCS	Boron	0.2389	mg/L	%R: 95.6	80	120	
	LCS	Cadmium	0.2254	mg/L	%R: 90.2	80	120	
	LCS	Chromium	0.2355	mg/L	%R: 94.2	80	120	
	LCS	Cobalt	0.2276	mg/L	%R: 91	80	120	
	LCS	Copper	0.2369	mg/L	%R: 94.8	80	120	
	LCS	Iron	9.6080	mg/L	%R: 94.7	80	120	
	LCS	Lead	0.2305	mg/L	%R: 92.2	80	120	
	LCS	Magnesium	23.19	mg/L	%R: 92.8	80	120	
	LCS	Manganese	0.2347	mg/L	%R: 93.9	80	120	
	LCS	Nickel	0.2316	mg/L	%R: 92.6	80	120	
	LCS	Selenium	0.2472	mg/L	%R: 98.9	80	120	
	LCS	Silver	0.2655	mg/L	%R: 106.2	80	120	

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

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Quality Control Summary

Client: HUFF & HUFF INC. **Lab File ID:** 25-6401

Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25

QC Lab#	QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD Limit
LCS972599	LCS	Thallium	0.2321	mg/L	%R: 92.8	80	120	
	LCS	Vanadium	0.2332	mg/L	%R: 93.3	80	120	
	LCS	Zinc	0.2530	mg/L	%R: 101.2	80	120	
PB972602	PB	Antimony	< 0.0060	mg/L	0	-		
	PB	Arsenic	< 0.0100	mg/L	0	-		
	PB	Barium	< 0.0050	mg/L	0	-		
	PB	Beryllium	< 0.0040	mg/L	0	-		
	PB	Boron	< 0.0500	mg/L	0	-		
	PB	Cadmium	< 0.0050	mg/L	0	-		
	PB	Chromium	< 0.0050	mg/L	0	-		
	PB	Cobalt	< 0.0050	mg/L	0	-		
	PB	Copper	< 0.0050	mg/L	0	-		
	PB	Iron	< 0.0500	mg/L	0	-		
	PB	Lead	< 0.0050	mg/L	0	-		
	PB	Magnesium	< 0.50	mg/L	0	-		
	PB	Manganese	< 0.0050	mg/L	0	-		
	PB	Nickel	< 0.0050	mg/L	0	-		
	PB	Selenium	< 0.0100	mg/L	0	-		
	PB	Silver	< 0.0050	mg/L	0	-		

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

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Quality Control Summary

Client: HUFF & HUFF INC. **Lab File ID:** 25-6401

Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25

QC Lab#	QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD	RPD Limit
PB972602	PB	Thallium	< 0.0100	mg/L	0	-			
	PB	Vanadium	< 0.0100	mg/L	0	-			
	PB	Zinc	< 0.0100	mg/L	0	-			
Parameter: Total Mercury		**Analytical Method:** 7471B			**Analytical WS #:** 260773		**Analysis Date:** 7/22/2025		
25-6299-002MS	MS	Mercury	0.130	mg/kg	%R: 104.7	75 - 125			
25-6299-002MSD	MSD	Mercury	0.128	mg/kg	%R: 102.9	75 - 125		RPD: 1	20
LCS972430	LCS	Mercury	0.00514	mg/L	%R: 102.8	80 - 120			
PB972433	PB	Mercury	< 0.00050	mg/L	0	-			
Parameter: Total Mercury		**Analytical Method:** 7471B			**Analytical WS #:** 260802		**Analysis Date:** 7/23/2025		
25-6401-006MS	MS	Mercury	0.128	mg/kg	%R: 109.8	75 - 125			
25-6401-006MSD	MSD	Mercury	0.128	mg/kg	%R: 109.9	75 - 125		RPD: 0	20
LCS972556	LCS	Mercury	0.00531	mg/L	%R: 106.2	80 - 120			
PB972559	PB	Mercury	< 0.00050	mg/L	0	-			

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

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Quality Control Summary

Client: HUFF & HUFF INC. **Lab File ID:** 25-6401

Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25

QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result		%R Limits Low High	RPD	RPD Limit
Parameter:	Semi-Volatile Compounds	**Analytical Method:**	8270C		**Analytical WS #:**	260878	**Analysis Date:**	7/22/2025	
		Prep Method:	3540C		**Prep WS#:**	45359	**Prep Date:**	7/21/2025	
25-6401-005MS	MS	1,2,4-Trichlorobenzene	55	ug/kg	%R: 55		53 - 91		
	MS	1,4-Dichlorobenzene MS/MSD and LCS are outside control limits.	45	ug/kg	%R: 45	*	51 - 83		
	MS	2,4-Dinitrotoluene	86	ug/kg	%R: 86		67 - 110		
	MS	2-Chlorophenol	70	ug/kg	%R: 70		53 - 90		
	MS	4-Chloro-3-methylphenol	80	ug/kg	%R: 80		54 - 111		
	MS	4-Nitrophenol	72	ug/kg	%R: 72		28 - 153		
	MS	Acenaphthene	77	ug/kg	%R: 77		62 - 101		
	MS	n-Nitrosodi-n-propylamine	61	ug/kg	%R: 61		46 - 99		
	MS	Pentachlorophenol	54	ug/kg	%R: 54		48 - 128		
	MS	Phenol	66	ug/kg	%R: 66		48 - 92		
	MS	Pyrene	73	ug/kg	%R: 73		49 - 114		
25-6401-005MSD	MSD	1,2,4-Trichlorobenzene Matrix spike recovery outside control limits low bias; LCS acceptable.	34	ug/kg	%R: 34	*	53 - 91	RPD: 47 *	38
	MSD	1,4-Dichlorobenzene MS/MSD and LCS are outside control limits.	18	ug/kg	%R: 18	*	51 - 83	RPD: 86 *	27
	MSD	2,4-Dinitrotoluene	83	ug/kg	%R: 83		67 - 110	RPD: 4	47
	MSD	2-Chlorophenol Matrix spike recovery outside control limits low bias; LCS acceptable.	40	ug/kg	%R: 40	*	53 - 90	RPD: 55 *	50
	MSD	4-Chloro-3-methylphenol	72	ug/kg	%R: 72		54 - 111	RPD: 11	33
	MSD	4-Nitrophenol	72	ug/kg	%R: 72		28 - 153	RPD: 0	50
	MSD	Acenaphthene	69	ug/kg	%R: 69		62 - 101	RPD: 11	19
	MSD	n-Nitrosodi-n-propylamine Matrix spike recovery outside control limits low bias; LCS acceptable.	43	ug/kg	%R: 43	*	46 - 99	RPD: 35	38

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

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Quality Control Summary

Client: HUFF & HUFF INC. **Lab File ID:** 25-6401

Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25

QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result		%R Limits Low High	RPD	RPD Limit
25-6401-005MSD	MSD	Pentachlorophenol	49	ug/kg	%R: 49		48 - 128	RPD: 10	47
	MSD	Phenol Matrix spike recovery outside control limits low bias; LCS acceptable.	43	ug/kg	%R: 43	*	48 - 92	RPD: 42 *	35
	MSD	Pyrene	69	ug/kg	%R: 69		49 - 114	RPD: 6	36
LCS85637	LCS	1,2,4-Trichlorobenzene	55	ug/kg	%R: 55		53 - 91		
	LCS	1,4-Dichlorobenzene MS/MSD and LCS are outside control limits.	50	ug/kg	%R: 50	*	51 - 83		
	LCS	1,4-Dioxane	41	ug/kg	%R: 41		20 - 120		
	LCS	2,4-Dinitrotoluene	94	ug/kg	%R: 94		67 - 110		
	LCS	2-Chlorophenol	65	ug/kg	%R: 65		53 - 90		
	LCS	4-Chloro-3-methylphenol	86	ug/kg	%R: 86		54 - 111		
	LCS	4-Nitrophenol	80	ug/kg	%R: 80		28 - 153		
	LCS	Acenaphthene	82	ug/kg	%R: 82		62 - 101		
	LCS	n-Nitrosodi-n-propylamine	60	ug/kg	%R: 60		46 - 99		
	LCS	Pentachlorophenol	53	ug/kg	%R: 53		48 - 128		
	LCS	Phenol	63	ug/kg	%R: 63		48 - 92		
	LCS	Pyrene	81	ug/kg	%R: 81		49 - 114		
Method Blank8564	BLK	1,2,4-Trichlorobenzene	< 330	ug/kg	0		-		
	BLK	1,2-Dichlorobenzene	< 330	ug/kg	0		-		
	BLK	1,2-Diphenylhydrazine (as Azobenzene)	< 330	ug/kg	0		-		
	BLK	1,3-Dichlorobenzene	< 330	ug/kg	0		-		
	BLK	1,4-Dichlorobenzene	< 330	ug/kg	0		-		

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Quality Control Summary

Client: HUFF & HUFF INC. **Lab File ID:** 25-6401

Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25

QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD Limit
Method Blank8564	BLK	2,2'-Dichlorodiisopropyl ether	< 330	ug/kg	0	-		
	BLK	2,4,5-Trichlorophenol	< 330	ug/kg	0	-		
	BLK	2,4,6-Trichlorophenol	< 330	ug/kg	0	-		
	BLK	2,4-Dichlorophenol	< 330	ug/kg	0	-		
	BLK	2,4-Dimethylphenol	< 330	ug/kg	0	-		
	BLK	2,4-Dinitrophenol	< 1600	ug/kg	0	-		
	BLK	2,4-Dinitrotoluene	< 250	ug/kg	0	-		
	BLK	2,6-Dichlorophenol	< 330	ug/kg	0	-		
	BLK	2,6-Dinitrotoluene		ug/kg	0	-		
	BLK	2-Chloronaphthalene	< 330	ug/kg	0	-		
	BLK	2-Chlorophenol	< 330	ug/kg	0	-		
	BLK	2-Methylnaphthalene	< 330	ug/kg	0	-		
	BLK	2-Methylphenol	< 330	ug/kg	0	-		
	BLK	2-Nitroaniline	< 1600	ug/kg	0	-		
	BLK	2-Nitrophenol	< 1600	ug/kg	0	-		
	BLK	3 & 4-Methylphenol	< 330	ug/kg	0	-		
	BLK	3,3'-Dichlorobenzidine	< 660	ug/kg	0	-		
	BLK	3-Nitroaniline	< 1600	ug/kg	0	-		
	BLK	4,6-Dinitro-2-methylphenol	< 1600	ug/kg	0	-		
	BLK	4,6-Dinitro-o-Cresol	< 1600	ug/kg	0	-		
	BLK	4-Bromophenyl phenyl ether	< 330	ug/kg	0	-		

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Quality Control Summary

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Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25

QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD Limit
Method Blank8564	BLK	4-Chloro-3-methylphenol	< 330	ug/kg	0	-		
	BLK	4-Chloroaniline	< 330	ug/kg	0	-		
	BLK	4-Chlorophenyl phenyl ether	< 330	ug/kg	0	-		
	BLK	4-Nitroaniline	< 1600	ug/kg	0	-		
	BLK	4-Nitrophenol	< 1600	ug/kg	0	-		
	BLK	Acenaphthene	< 330	ug/kg	0	-		
	BLK	Acenaphthylene	< 330	ug/kg	0	-		
	BLK	Aniline	< 330	ug/kg	0	-		
	BLK	Anthracene	< 330	ug/kg	0	-		
	BLK	Benzidine	< 330	ug/kg	0	-		
	BLK	Benzo(a)anthracene	< 330	ug/kg	0	-		
	BLK	Benzo(a)pyrene	< 90	ug/kg	0	-		
	BLK	Benzo(b)fluoranthene	< 330	ug/kg	0	-		
	BLK	Benzo(ghi)perylene	< 330	ug/kg	0	-		
	BLK	Benzo(k)fluoranthene	< 330	ug/kg	0	-		
	BLK	Benzoic acid	< 330	ug/kg	0	-		
	BLK	Benzyl alcohol	< 330	ug/kg	0	-		
	BLK	bis(2-Chloroethoxy)methane	< 330	ug/kg	0	-		
	BLK	bis(2-Chloroethyl)ether	< 330	ug/kg	0	-		
	BLK	bis(2-Chloroisopropyl)ether	< 330	ug/kg	0	-		
	BLK	bis(2-Ethylhexyl)phthalate	< 330	ug/kg	0	-		

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QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD Limit
Method Blank8564	BLK	bis(Chloromethyl)ether	0	ug/kg	0	-		
	BLK	Butyl benzyl phthalate	< 330	ug/kg	0	-		
	BLK	Carbazole	< 330	ug/kg	0	-		
	BLK	Chrysene	< 330	ug/kg	0	-		
	BLK	Dibenzo(a,h)anthracene	< 90	ug/kg	0	-		
	BLK	Dibenzofuran	< 330	ug/kg	0	-		
	BLK	Diethyl phthalate	< 330	ug/kg	0	-		
	BLK	Dimethyl phthalate	< 330	ug/kg	0	-		
	BLK	Di-n-butyl phthalate	< 330	ug/kg	0	-		
	BLK	Di-n-octylphthalate	< 330	ug/kg	0	-		
	BLK	Dinoseb	< 660	ug/kg	0	-		
	BLK	Diphenylamine	< 660	ug/kg	0	-		
	BLK	Disulfoton	< 330	ug/kg	0	-		
	BLK	Fluoranthene	< 330	ug/kg	0	-		
	BLK	Fluorene	< 330	ug/kg	0	-		
	BLK	Hexachlorobenzene	< 330	ug/kg	0	-		
	BLK	Hexachlorobutadiene	< 330	ug/kg	0	-		
	BLK	Hexachlorocyclopentadiene	< 330	ug/kg	0	-		
	BLK	Hexachloroethane	< 330	ug/kg	0	-		
	BLK	Indeno(1,2,3-cd)pyrene	< 330	ug/kg	0	-		
	BLK	Isophorone	< 330	ug/kg	0	-		

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CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
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PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

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Quality Control Summary

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QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD Limit
Method Blank8564	BLK	Naphthalene	< 330	ug/kg	0	-		
	BLK	Nitrobenzene	< 260	ug/kg	0	-		
	BLK	n-Nitrosodimethylamine	< 330	ug/kg	0	-		
	BLK	n-Nitrosodi-n-propylamine	< 90	ug/kg	0	-		
	BLK	n-Nitrosodiphenylamine	< 330	ug/kg	0	-		
	BLK	Pentachlorophenol	< 330	ug/kg	0	-		
	BLK	Phenanthrene	< 330	ug/kg	0	-		
	BLK	Phenol	< 330	ug/kg	0	-		
	BLK	Pyrene	< 330	ug/kg	0	-		
	BLK	Pyridine	< 330	ug/kg	0	-		

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CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
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Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25

QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low High	RPD Limit
Parameter:	Volatile Organic Compounds	**Analytical Method:**	5035A/8260B		**Analytical WS #:** 260850	**Analysis Date:** 7/22/2025	
LCS972641	LCS	1,1-Dichloroethene	45.9	ug/kg	%R: 91.8	65 - 136	
	LCS	Benzene LCS recovery outside control limits; high bias.	78.3	ug/kg	%R: 156.5 *	75 - 118	
	LCS	Chlorobenzene	52.1	ug/kg	%R: 104.2	81 - 116	
	LCS	Toluene	47.4	ug/kg	%R: 94.8	75 - 118	
	LCS	Trichloroethene	51.0	ug/kg	%R: 102	76 - 119	
	LCS	Vinyl chloride	41.7	ug/kg	%R: 83.5	63 - 143	
LCSD972642	LCSD	1,1-Dichloroethene	47.8	ug/kg	%R: 95.6	65 - 136	
	LCSD	Benzene	50.2	ug/kg	%R: 100.5	75 - 118	
	LCSD	Chlorobenzene	51.3	ug/kg	%R: 102.7	81 - 116	
	LCSD	Toluene LCS recovery outside control limits; high bias.	69.7	ug/kg	%R: 139.3 *	75 - 118	
	LCSD	Trichloroethene	49.8	ug/kg	%R: 99.5	76 - 119	
	LCSD	Vinyl chloride	37.3	ug/kg	%R: 74.6	63 - 143	
Method Blank9726	BLK	1,1,1-Trichloroethane	< 5.0	ug/kg	0	-	
	BLK	1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	0	-	
	BLK	1,1,2-Trichloroethane	< 5.0	ug/kg	0	-	
	BLK	1,1-Dichloroethane	< 5.0	ug/kg	0	-	
	BLK	1,1-Dichloroethene	< 5.0	ug/kg	0	-	
	BLK	1,2-Dibromo-3-chloropropane	< 2.0	ug/kg	0	-	
	BLK	1,2-Dichloroethane	< 5.0	ug/kg	0	-	

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CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

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Quality Control Summary

Client: HUFF & HUFF INC. **Lab File ID:** 25-6401

Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25

QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD Limit
Method Blank9726	BLK	1,2-Dichloropropane	< 5.0	ug/kg	0	-		
	BLK	2-Butanone (MEK)	< 100	ug/kg	0	-		
	BLK	2-Hexanone	< 10.0	ug/kg	0	-		
	BLK	4-Methyl-2-pentanone (MIBK)	< 10.0	ug/kg	0	-		
	BLK	Acetone	< 100	ug/kg	0	-		
	BLK	Benzene	< 5.0	ug/kg	0	-		
	BLK	Bromodichloromethane	< 5.0	ug/kg	0	-		
	BLK	Bromoform	< 5.0	ug/kg	0	-		
	BLK	Bromomethane	< 10.0	ug/kg	0	-		
	BLK	Carbon disulfide	< 5.0	ug/kg	0	-		
	BLK	Carbon tetrachloride	< 5.0	ug/kg	0	-		
	BLK	Chlorobenzene	< 5.0	ug/kg	0	-		
	BLK	Chlorodibromomethane	< 5.0	ug/kg	0	-		
	BLK	Chloroethane	< 10.0	ug/kg	0	-		
	BLK	Chloroform	< 5.0	ug/kg	0	-		
	BLK	Chloromethane	< 10.0	ug/kg	0	-		
	BLK	cis-1,2-Dichloroethene	< 5.0	ug/kg	0	-		
	BLK	cis-1,3-Dichloropropene	< 4.0	ug/kg	0	-		
	BLK	Ethylbenzene	< 5.0	ug/kg	0	-		
	BLK	Methylene chloride	< 20.0	ug/kg	0	-		
	BLK	Methyl-tert-butylether (MTBE)	< 5.0	ug/kg	0	-		

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QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD Limit
Method Blank9726	BLK	Styrene	< 5.0	ug/kg	0	-		
	BLK	Tetrachloroethene	< 5.0	ug/kg	0	-		
	BLK	Toluene	< 5.0	ug/kg	0	-		
	BLK	trans-1,2-Dichloroethene	< 5.0	ug/kg	0	-		
	BLK	trans-1,3-Dichloropropene	< 4.0	ug/kg	0	-		
	BLK	Trichloroethene	< 5.0	ug/kg	0	-		
	BLK	Vinyl acetate	< 10.0	ug/kg	0	-		
	BLK	Vinyl chloride	< 10.0	ug/kg	0	-		
	BLK	Xylene, Total	< 5.0	ug/kg	0	-		

Parameter: Volatile Organic Compounds **Analytical Method:** 5035A/8260B **Analytical WS #:** 260944 **Analysis Date:** 7/24/2025

LCS973022	LCS	1,1-Dichloroethene	55.7	ug/kg	%R: 111.5	65	136	
	LCS	Benzene	53.2	ug/kg	%R: 106.3	75	118	
	LCS	Chlorobenzene	50.5	ug/kg	%R: 101	81	116	
	LCS	Toluene	52.1	ug/kg	%R: 104.1	75	118	
	LCS	Trichloroethene	48.9	ug/kg	%R: 97.9	76	119	
	LCS	Vinyl chloride	45.8	ug/kg	%R: 91.7	63	143	
LCSD973023	LCSD	1,1-Dichloroethene	53.7	ug/kg	%R: 107.4	65	136	
	LCSD	Benzene	51.5	ug/kg	%R: 103	75	118	
	LCSD	Chlorobenzene	49.4	ug/kg	%R: 98.8	81	116	
	LCSD	Toluene	50.6	ug/kg	%R: 101.1	75	118	
	LCSD	Trichloroethene	48.0	ug/kg	%R: 96.1	76	119	

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MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
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QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD Limit
LCSD973023	LCSD	Vinyl chloride	44.0	ug/kg	%R: 87.9	63	143	
Method Blank9730	BLK	1,1,1-Trichloroethane	< 5.0	ug/kg	0	-		
	BLK	1,1,2,2-Tetrachloroethane	< 5.0	ug/kg	0	-		
	BLK	1,1,2-Trichloroethane	< 5.0	ug/kg	0	-		
	BLK	1,1-Dichloroethane	< 5.0	ug/kg	0	-		
	BLK	1,1-Dichloroethene	< 5.0	ug/kg	0	-		
	BLK	1,2-Dibromo-3-chloropropane	< 2.0	ug/kg	0	-		
	BLK	1,2-Dichloroethane	< 5.0	ug/kg	0	-		
	BLK	1,2-Dichloropropane	< 5.0	ug/kg	0	-		
	BLK	2-Butanone (MEK)	< 100	ug/kg	0	-		
	BLK	2-Hexanone	< 10.0	ug/kg	0	-		
	BLK	4-Methyl-2-pentanone (MIBK)	< 10.0	ug/kg	0	-		
	BLK	Acetone	< 100	ug/kg	0	-		
	BLK	Benzene	< 5.0	ug/kg	0	-		
	BLK	Bromodichloromethane	< 5.0	ug/kg	0	-		
	BLK	Bromoform	< 5.0	ug/kg	0	-		
	BLK	Bromomethane	< 10.0	ug/kg	0	-		
	BLK	Carbon disulfide	< 5.0	ug/kg	0	-		
	BLK	Carbon tetrachloride	< 5.0	ug/kg	0	-		
	BLK	Chlorobenzene	< 5.0	ug/kg	0	-		
	BLK	Chlorodibromomethane	< 5.0	ug/kg	0	-		

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QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD Limit
Method Blank9730	BLK	Chloroethane	< 10.0	ug/kg	0	-		
	BLK	Chloroform	< 5.0	ug/kg	0	-		
	BLK	Chloromethane	< 10.0	ug/kg	0	-		
	BLK	cis-1,2-Dichloroethene	< 5.0	ug/kg	0	-		
	BLK	cis-1,3-Dichloropropene	< 4.0	ug/kg	0	-		
	BLK	Ethylbenzene	< 5.0	ug/kg	0	-		
	BLK	Methylene chloride	< 20.0	ug/kg	0	-		
	BLK	Methyl-tert-butylether (MTBE)	< 5.0	ug/kg	0	-		
	BLK	Styrene	< 5.0	ug/kg	0	-		
	BLK	Tetrachloroethene	< 5.0	ug/kg	0	-		
	BLK	Toluene	< 5.0	ug/kg	0	-		
	BLK	trans-1,2-Dichloroethene	< 5.0	ug/kg	0	-		
	BLK	trans-1,3-Dichloropropene	< 4.0	ug/kg	0	-		
	BLK	Trichloroethene	< 5.0	ug/kg	0	-		
	BLK	Vinyl acetate	< 10.0	ug/kg	0	-		
	BLK	Vinyl chloride	< 10.0	ug/kg	0	-		
	BLK	Xylene, Total	< 5.0	ug/kg	0	-		

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

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IL ELAP / NELAC Certification # 100292
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Quality Control Summary

Client: HUFF & HUFF INC. **Lab File ID:** 25-6401

Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25

QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low High	RPD Limit
Parameter:	Volatile Organic Compounds	**Analytical Method:**	5030B/8260B		**Analytical WS #:** 260742	**Analysis Date:** 7/18/2025	
LCS971929	LCS	1,1-Dichloroethene	52.0	ug/L	%R: 103.9	65 - 144	
	LCS	Benzene	50.8	ug/L	%R: 101.6	73 - 123	
	LCS	Chlorobenzene	48.3	ug/L	%R: 96.6	79 - 117	
	LCS	Toluene	49.8	ug/L	%R: 99.5	74 - 118	
	LCS	Trichloroethene	45.6	ug/L	%R: 91.1	78 - 121	
	LCS	Vinyl chloride	48.1	ug/L	%R: 96.3	51 - 166	
LCSD972157	LCSD	1,1-Dichloroethene	52.7	ug/L	%R: 105.3	65 - 144	
	LCSD	Benzene	49.7	ug/L	%R: 99.3	73 - 123	
	LCSD	Chlorobenzene	47.2	ug/L	%R: 94.4	79 - 117	
	LCSD	Toluene	48.7	ug/L	%R: 97.3	74 - 118	
	LCSD	Trichloroethene	44.9	ug/L	%R: 89.7	78 - 121	
	LCSD	Vinyl chloride	45.8	ug/L	%R: 91.7	51 - 166	
Method Blank9721	BLK	1,1,1-Trichloroethane	< 5.0	ug/L	0	-	
	BLK	1,1,2,2-Tetrachloroethane	< 5.0	ug/L	0	-	
	BLK	1,1,2-Trichloroethane	< 5.0	ug/L	0	-	
	BLK	1,1-Dichloroethane	< 5.0	ug/L	0	-	
	BLK	1,1-Dichloroethene	< 5.0	ug/L	0	-	
	BLK	1,2-Dichloroethane	< 5.0	ug/L	0	-	
	BLK	1,2-Dichloropropane	< 5.0	ug/L	0	-	

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

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Quality Control Summary

Client: HUFF & HUFF INC. **Lab File ID:** 25-6401

Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25

QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD Limit
Method Blank9721	BLK	2-Butanone (MEK)	< 10.0	ug/L	0	-		
	BLK	2-Hexanone	< 10.0	ug/L	0	-		
	BLK	4-Methyl-2-pentanone (MIBK)	< 10.0	ug/L	0	-		
	BLK	Acetone	< 100	ug/L	0	-		
	BLK	Benzene	< 5.0	ug/L	0	-		
	BLK	Bromodichloromethane	< 1.0	ug/L	0	-		
	BLK	Bromoform	< 1.0	ug/L	0	-		
	BLK	Bromomethane	< 5.0	ug/L	0	-		
	BLK	Carbon disulfide	< 5.0	ug/L	0	-		
	BLK	Carbon tetrachloride	< 5.0	ug/L	0	-		
	BLK	Chlorobenzene	< 5.0	ug/L	0	-		
	BLK	Chlorodibromomethane	< 1.0	ug/L	0	-		
	BLK	Chloroethane	< 10.0	ug/L	0	-		
	BLK	Chloroform	< 1.0	ug/L	0	-		
	BLK	Chloromethane	< 10.0	ug/L	0	-		
	BLK	cis-1,2-Dichloroethene	< 5.0	ug/L	0	-		
	BLK	cis-1,3-Dichloropropene	< 1.0	ug/L	0	-		
	BLK	Ethylbenzene	< 5.0	ug/L	0	-		
	BLK	Methylene chloride	< 5.0	ug/L	0	-		
	BLK	Methyl-tert-butylether (MTBE)	< 5.0	ug/L	0	-		
	BLK	Styrene	< 5.0	ug/L	0	-		

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

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Quality Control Summary

Client: HUFF & HUFF INC. **Lab File ID:** 25-6401

Project ID: IDOT 207-054 WO25 15thAve 81-0220784.25

QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD Limit
Method Blank9721	BLK	Tetrachloroethene	< 5.0	ug/L	0	-		
	BLK	Toluene	< 5.0	ug/L	0	-		
	BLK	trans-1,2-Dichloroethene	< 5.0	ug/L	0	-		
	BLK	trans-1,3-Dichloropropene	< 1.0	ug/L	0	-		
	BLK	Trichloroethene	< 5.0	ug/L	0	-		
	BLK	Vinyl acetate	< 10.0	ug/L	0	-		
	BLK	Vinyl chloride	< 2.0	ug/L	0	-		
	BLK	Xylene, Total	< 5.0	ug/L	0	-		

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

First Environmental Laboratories, Inc.

First Environmental Laboratories
1600 Shore Road, Suite D
Naperville, Illinois 60563
Phone: (630) 778-1200 • Fax: (630) 778-1233
E-mail: firstinfo@firstenv.com • www.firstenv.com
IEPA Certification #100292

CHAIN OF CUSTODY RECORD

Company Name: GZA / Huff n' Huff
Street Address: 915 Harger Rd, Suite 330
City: Oak Brook State: IL Zip: 60523
Phone: 630-684-4405 e-mail: emily.mcgonigle@gza.com
Send Report To: Emily McGonigle
Sampled By: Matt Roth, Jack Brown

Project I.D.: IDOT 207-054 WO 25 15th Ave
P.O. #: 81.0220784.25

Date/Time Taken	Sample Description	Matrix	Parameter(s): IDOT List V2*	VOCs	Hold – Do Not Analyze	Comments	Lab I.D. (25-6401)
7/17/25 8:25	4013-2-01 (0-1)	S	X				001
8:40	4013-2-02 (0-1)						002
9:20	4013-4-01 (0-1)						003
8:32	4013-6-01 (0-1)						004
9:03	4013-7-01 (0-1)						005
10:30	4013-7-02 (0-1)						006
10:02	4013-7-03 (0-1)						007
	Trip Blank			X			

FOR LAB USE ONLY:
Cooler Temperature: 0.1-6°C Yes ✓ No__ 3.5 °C
Received within 6 hrs of collection: ✓
Ice Present: Yes ✓ No__

LAB COURIER USE ONLY:
Sample Refrigerated: Yes__ No__
Refrigerator Temperature:_____°C

Program: ☐ TACO/SRP ☐ CCDD ☐ NPDES ☐ LUST ☐ SDWA

***Matrix Code Key:** **S**-Soil **SL**-Sludge **DW**-Drinking Water **WW**-Wastewater **GW**-Groundwater **WIPE**-Wipe **O**-Other

Notes and Special Instructions: Please provide QA/QC Summary package with results

IDOT List V2* see Attached

Relinquished By: Matthew J Roth Date/Time 7/17/25 1622 Received By: MJ Date/Time 7/17/25 1622
Relinquished By: _____ Date/Time _____ Received By: _____ Date/Time _____

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August 04, 2025

Ms. Emily McGonigle
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: 81.0220754.25 IDOT 2070-054 WO25
First Environmental File ID: 25-6742
Date Received: July 17, 2025

Dear Ms. Emily McGonigle:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number:

1002922025-14: effective 01/16/25 through 02/28/2026.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager

First
Environmental
Laboratories, Inc

IL ELAP / NELAC Certification # 100292

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Case Narrative

HUFF & HUFF INC.

Lab File ID: **25-6742**

Project ID: **81.0220754.25 IDOT 2070-054 WO25**

Date Received: **July 17, 2025**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time Collected
25-6742-001	40B-6-01 (0-1)	7/17/2025 8:32
25-6742-002	40B-7-01 (0-1)	7/17/2025 9:03
25-6742-003	40B-7-02 (0-1)	7/17/2025 10:30

Sample Batch Comments:

Sample acceptance criteria were met.

First Environmental Laboratories, Inc

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Case Narrative

HUFF & HUFF INC.

Lab File ID: **25-6742**

Project ID: **81.0220754.25 IDOT 2070-054 WO25**

Date Received: **July 17, 2025**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
I	ICVS % rec outside 95-105% but within 90-110%		
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.

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Analytical Report

Client:	HUFF & HUFF INC.	**Date Collected:**	07/17/25
Project ID:	81.0220754.25 IDOT 2070-054 WO25	**Time Collected:**	8:32
Sample ID:	40B-6-01 (0-1)	**Date Received:**	07/17/25
Sample No:	25-6742-001	**Date Reported:**	08/04/25

Analyte		Result	R.L.	Units	Flags
TCLP Metals Method 1311	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 08/01/25			Preparation Date: 08/01/25		
Manganese		0.17	0.10	mg/L	
SPLP Metals Method 1312	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 08/04/25			Preparation Date: 08/04/25		
Manganese		0.31	0.10	mg/L	

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Analytical Report

Client:	HUFF & HUFF INC.	**Date Collected:**	07/17/25
Project ID:	81.0220754.25 IDOT 2070-054 WO25	**Time Collected:**	9:03
Sample ID:	40B-7-01 (0-1)	**Date Received:**	07/17/25
Sample No:	25-6742-002	**Date Reported:**	08/04/25

Analyte		Result	R.L.	Units	Flags
TCLP Metals Method 1311	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 08/01/25			Preparation Date: 08/01/25		
Manganese		< 0.10	0.10	mg/L	
SPLP Metals Method 1312	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 08/04/25			Preparation Date: 08/04/25		
Manganese		0.50	0.10	mg/L	

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Analytical Report

Client:	HUFF & HUFF INC.	**Date Collected:**	07/17/25
Project ID:	81.0220754.25 IDOT 2070-054 WO25	**Time Collected:**	10:30
Sample ID:	40B-7-02 (0-1)	**Date Received:**	07/17/25
Sample No:	25-6742-003	**Date Reported:**	08/04/25

Analyte		Result	R.L.	Units	Flags
TCLP Metals Method 1311	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 08/01/25			Preparation Date: 08/01/25		
Manganese		0.15	0.10	mg/L	
SPLP Metals Method 1312	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 08/04/25			Preparation Date: 08/04/25		
Manganese		0.71	0.10	mg/L	

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IL ELAP / NELAC Certification # 100292
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Quality Control Summary

Client: HUFF & HUFF INC. **Lab File ID:** 25-6742

Project ID: 81.0220754.25 IDOT 2070-054 WO25

QC Lab#	QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD Limit
Parameter:	SPLP Metals Method 1312	**Analytical Method:**	6010C		**Analytical WS #:**	261348	**Analysis Date:**	8/4/2025
		Prep Method:	3010A		**Prep WS#:**	45484	**Prep Date:**	8/4/2025
LCS975346	LCS	Manganese	0.0985	mg/L	%R: 98.5	80	120	
PB975349	PB	Manganese	< 0.0050	mg/L	0	-		
Parameter:	TCLP Metals Method 1311	**Analytical Method:**	6010C		**Analytical WS #:**	261271	**Analysis Date:**	8/1/2025
		Prep Method:	3010A		**Prep WS#:**	45472	**Prep Date:**	8/1/2025
LCS974846	LCS	Manganese	0.0949	mg/L	%R: 94.9	80	120	
PB974849	PB	Manganese	< 0.0050	mg/L	0	-		

* The QC indicator is outside control limits. %R = percent recovery; RPD = Relative percent difference
CB = Calibration Blank; CCVS = Continuing Calibration Verification Standard; MS = Matrix Spike;
MSD = Matrix Spike Duplicate; LCS = Laboratory Control Spike; SURR = Surrogate Spiking Compound;
PB = Procedure Blank; BLK = Method Blank; D = QCI diluted out.

CHAIN OF CUSTODY RECORD

Page 1 of 1 pgs

First Environmental Laboratories, Inc.

First Environmental Laboratories
1600 Shore Road, Suite D
Naperville, Illinois 60563
Phone: (630) 778-1200 • Fax: (630) 778-1233
E-mail: firstinfo@firstenv.com • www.firstenv.com
IEPA Certification #100292

Company Name: GZA / Huff n' Huff
Street Address: 915 Harger Rd, Suite 330
City: Oak Brook State: IL Zip: 60523
Phone: 630-684-4405 e-mail: emily.mcgonigle@gza.com
Send Report To: Emily McGonigle
Sampled By: Matt Roth, Jack Brown

Project I.D.: IDOT 207-054 WO 25 15th Ave
P.O. #: SL.0220784.25

Date/Time Taken	Sample Description	Matrix	IDOT List V2*	VOCs	TCLP Mn	SPLP Mn	Hold – Do Not Analyze	Comments	Lab I.D.
7/17/25 8:25	4013-2-01 (0-1)	S	X						001
9:40	4013-2-02 (0-1)								002
9:20	4013-4-01 (0-1)								003
8:32	4013-6-01 (0-1)			X	X			25-6742-001	004
9:03	4013-7-01 (0-1)			X	X			002	005
10:30	4013-7-02 (0-1)			X	X			003	006
10:02	4013-7-03 (0-1)								007
	Trip Blank		X						

27-6401

FOR LAB USE ONLY:
Cooler Temperature: 0.1-6°C Yes ✓ No__ 3.5 °C
Received within 6 hrs of collection: ✓
Ice Present: Yes ✓ No__

LAB COURIER USE ONLY:
Sample Refrigerated: Yes__ No__
Refrigerator Temperature:_____°C

Program: ☐ TACO/SRP ☐ CCDD ☐ NPDES ☐ LUST ☐ SDWA

*Matrix Code Key: **S**-Soil **SL**-Sludge **DW**-Drinking Water **WW**-Wastewater **GW**-Groundwater **WIPE**-Wipe **O**-Other

Notes and Special Instructions: Please provide QA/QC Summary package with results

IDOT List V2* See Attached

Relinquished By: Matthew Roth Date/Time 7/17/25 1622 Received By: MJ Date/Time 7/17/25 1622

Relinquished By: _____ Date/Time _____ Received By: _____ Date/Time _____

Rev. 6/19

APPENDIX E

LPC 663 PACKAGE

Illinois Environmental Protection Agency

2520 West Iles Avenue • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: PTB 207-054-025 / Seq: 23305 Office Phone Number, if available:

Physical Site Location (address, including number and street):

Site 4013-COV-7 - Vacant Land, 2100-2200 blocks of S. Main Street, Rockford, Winnebago County, Illinois

City: Rockford State: IL Zip Code: 61102

County: Winnebago Township: Rockford

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 42.2507 (Decimal Degrees) Longitude: - 89.10448 (-Decimal Degrees)

Identify how the lat/long data were determined:

◯ GPS ⊘ Map Interpolation ◯ Photo Interpolation ◯ Survey ◯ Other

IEPA Site Number(s), if assigned: BOL: BOW: BOA:

Approximate Start Date (mm/dd/yyyy): Approximate End Date (mm/dd/yyyy):

Estimated Volume of debris (cu. Yd.): 71

II. Owner/Operator Information for Source Site

Site Owner

Name: IDOT District 2

Street Address: 819 Depot Avenue

PO Box:

City: Dixon State: IL

Zip Code: 61021 Phone: (815)284-2271

Contact: Heath Jordan

Email, if available: Heath.Jordan@illinois.gov

Site Operator

Name: IDOT District 2

Street Address: 819 Depot Avenue

PO Box:

City: Dixon State: IL

Zip Code: 61021 Phone: (815)284-2271

Contact: Heath Jordan

Email, if available: Heath.Jordan@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: PTB 207-054-025 / Seq: 23305 Latitude: 42.25070 Longitude: - 89.10448

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

Soil samples 4013-7-01 (0-1), 4013-7-02 (0-1), and 4013-7-03 (0-1) collected from PESA Site 4013-COV-7 - Vacant Land.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0,including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

Analytical results from First Environmental Laboratories, Inc. confirm the results of CCDD eligibility for the soil samples listed above.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Jeremy J. Reynolds (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name:	Huff and Huff
Street Address:	915 Harger Road, Suite 330
City:	Oak Brook State: IL Zip Code: 60523
Phone:	(630) 684-4405

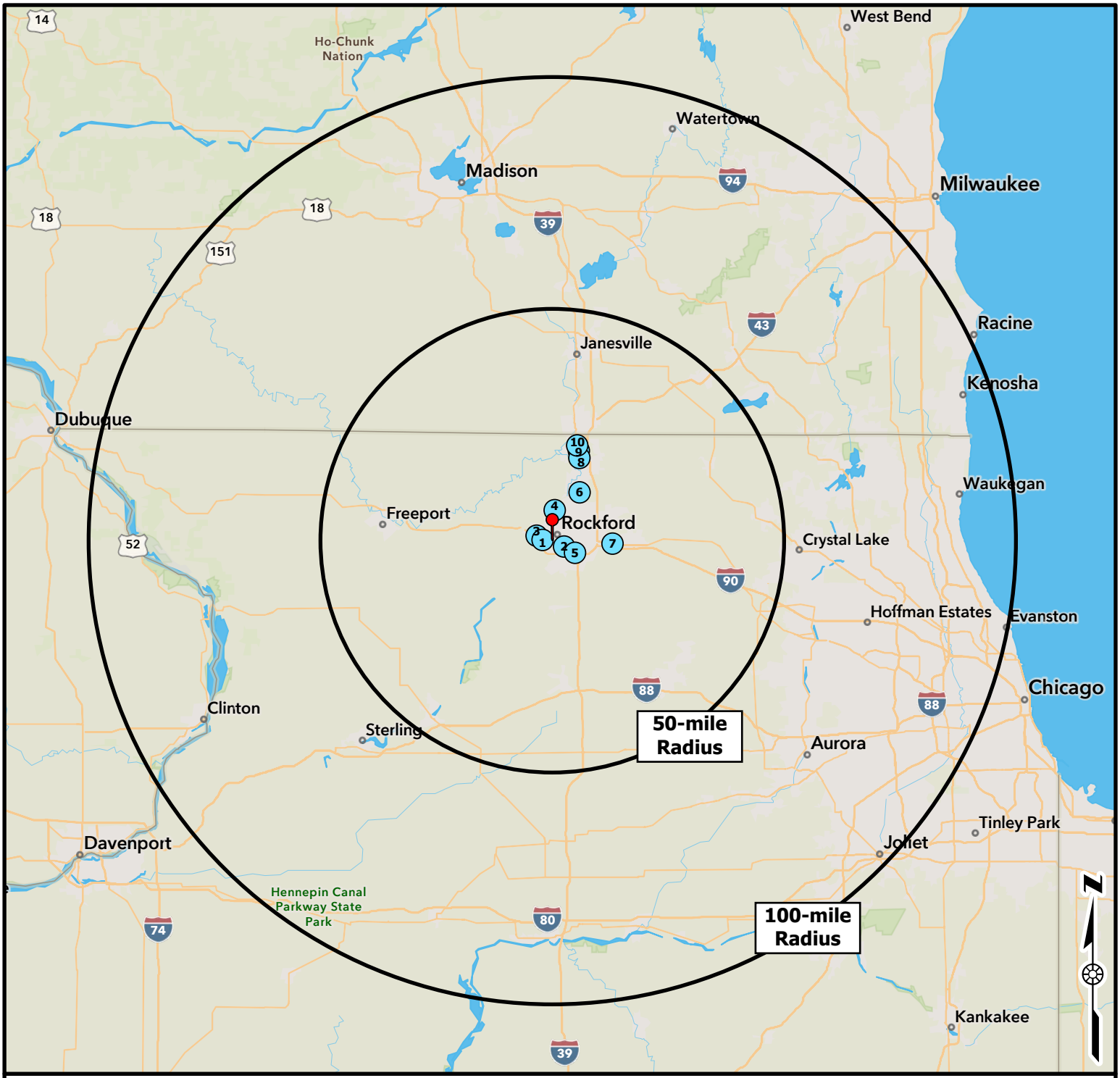
Jeremy J. Reynolds
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

8/15/25
Date:



P.E or L.P.G. Seal:



Site #	Name	CCDD/USFO	Physical Address	Approx Driving Distance From Project	Accepts		Confirmed Date and By
					Concrete/ Asphalt	Soil	
1	Pierpont CCDD BOL Number: 2010306479	CCDD/USFO	1900 S Pierpont Ave, Rockford, IL 61102	2 mi	Yes	Yes	8/8/2025 - EM IEPA/ISATS website
2	Northern IL Svc Auburn CCDD BOL Number: 2010306610	CCDD/USFO	1901 Harrison Ave, Rockford, IL 61104	3 mi	Yes	Yes	8/8/2025 - EM IEPA/ISATS website
3	Stokes Sand & Gravel Inc BOL Number: 2010300007	CCDD Only	903 Daisyfield Rd, Rockford, IL 61102	4 mi	Yes	No	8/8/2025 - EM IEPA/ISATS website
4	Johns Stone CCDD Facility BOL Number: 2018095004	CCDD/USFO	4145 N Rockton Ave, Rockford, IL 61103	5 mi	Yes	Yes	8/8/2025 - EM IEPA/ISATS website
5	Sandy Hollow CCDD Facility BOL Number: 2010306481	CCDD/USFO	3801 Sandy Hollow Rd, Rockford, IL 61109	6 mi	Yes	Yes	8/8/2025 - EM IEPA/ISATS website
6	Speedway Quarry CCDD BOL Number: 2010506331	CCDD Only	4996 Contractors Dr, Loves Park, IL 61111	10 mi	Yes	Yes	8/8/2025 - EM IEPA/ISATS website
7	Ipsen Rd CCDD BOL Number: 0078005009	CCDD Only	1050 ECS Way, Belvidere, IL 61008	14 mi	No	Yes	8/8/2025 - EM IEPA/ISATS website
8	Roscoe Rock & Sand CCDD BOL Number: 2018105003	CCDD/USFO	5029 McCurry Rd, Roscoe, IL 61073	15 mi	Yes	Yes	8/8/2025 - EM IEPA/ISATS website
9	Northern Illinois Svc Co BOL Number: 2010405051	CCDD/USFO	4950 E Rockton Rd, Roscoe, IL 61073	17 mi	Yes	Yes	8/8/2025 - EM IEPA/ISATS website
10	Bluff City - South Beloit CCDD BOL Number: 2010455010	CCDD/USFO	4633 Prairie Hill Rd, South Beloit, IL 61080	18 mi	Yes	Yes	8/8/2025 - EM IEPA/ISATS website

*These are the 10 facilities closest to the site. Additional facilities are located within 100 miles of the site beyond the 10 sites listed above.

0 15 30 60

Miles

Notes:
1. Sites confirmed by H&H staff noted above
2. This table and figure illustrate the seven closest CCDD/USFO locations. There may be more.

Legend

Site Location

CCDD Facilities

CCDD FACILITIES MAP

Location: 15th Avenue and Marchesano Drive, West Street to Orange Street
Rockford, Winnebago County, IL

BDE Sequence No: 23305	Contract No: Not Listed
IDOT Job No: Not Listed	ISGS PESA No: 4013-COV
Route: FAU 5082	City / County: Rockford / Winnebago

PTB 207-054 (H&H-3) / WO No. 25

DESIGNED	EM
DRAWN	EM
CHECKED	SC
APPROVED	SC
DATE	08/08/25

Huff & Huff incorporated
A Subsidiary of CIZA Civil/Environmental, Inc.
915 HARGER RD, SUITE 330
OAK BROOK, IL 60523
PH: (630) 684-9100

Table 4-2. Detected Soil Analytes and Comparison to Applicable Criteria
207-054 WO #025
15th Avenue and Marchesano Drive, Rockford, Winnebago County, IL

Sample ID	4013-2-01 (0-1)	4013-2-02 (0-1)	4013-4-01 (0-1)	4013-6-01 (0-1)	4013-7-01 (0-1)	4013-7-02 (0-1)	4013-7-03 (0-1)	CCDD Maximum Allowable Concentrations							TACO Remediation Objectives	
Sample Depth (ft)	0-1	0-1	0-1	0-1	0-1	0-1	0-1									
Sample Date	7/17/2025	7/17/2025	7/17/2025	7/17/2025	7/17/2025	7/17/2025	7/17/2025									
PID	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
Sample pH	8.71	8.79	8.04	7.99	8.48	8.65	8.29									
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil									
IDOT 669 Designation	669.05(a)(5)	669.05(a)(5)	669.05(a)(5)	669.05(a)(1)	Unrestricted	Unrestricted	669.05(a)(3)	Most Stringent Maximum Allowable Concentration[1]	Within Chicago Corporate Limits[2]	Within a Populated Area[2] in an MSA County[3] (excl. Chicago)	Within a MSA County[3]	Within a Populated Area[2] a non-MSA County[3]	Outside a Populated Area[2]	Within a non-MSA County[3]	Most Stringent TACO Tier 1 Construction Worker Exposure Objective[4]	Most Stringent TACO Tier 1 Residential Objective[5] and Groundwater Protection (TCLP/SPLP)[6]
VOCs (mg/kg)																
Tetrachloroethene	<0.005	**0.0173**	<0.005	<0.005	<0.005	<0.005	<0.005	0.06	NA	NA	NA	NA	NA	NA	28	11
SVOCs (mg/kg)																
Anthracene	**0.489**	<0.33	**0.625**	<0.33	<0.33	<0.33	<0.33	12,000	NA	NA	NA	NA	NA	NA	610,000	23,000
Benzo(a)anthracene	**1.76**	**0.599**	**2.22**	**0.389**	<0.33	<0.33	<0.33	0.9	1.1	1.8	NA	0.9	0.9	NA	170	0.9
Benzo(a)pyrene	**1.74**	**0.604**	**2.05**	**0.484**	<0.09	<0.09	**0.188**	0.09	1.3	2.1	NA	0.98	0.09	NA	17	0.09
Benzo(b)fluoranthene	**2.52**	**0.841**	**2.71**	**0.741**	<0.33	<0.33	<0.33	0.9	1.5	2.1	NA	0.9	0.9	NA	170	0.9
Benzo(k)fluoranthene	**0.789**	<0.33	**0.964**	<0.33	<0.33	<0.33	<0.33	9	NA	NA	NA	NA	NA	NA	1,700	9
Benzo(ghi)perylene	**1.4**	**0.48**	**1.51**	**0.463**	<0.33	<0.33	<0.33	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	<0.33	**263**	<0.33	<0.33	<0.33	<0.33	<0.33	46	NA	NA	NA	NA	NA	NA	410	46
Chrysene	**1.8**	**0.613**	**2.2**	**0.497**	<0.33	<0.33	<0.33	88	NA	NA	NA	NA	NA	NA	17,000	88
Dibenzo(a,h)anthracene	**0.326**	**0.118**	**0.374**	**0.104**	<0.09	<0.09	<0.09	0.09	0.2	0.42	NA	0.15	0.09	NA	17	0.09
Fluoranthene	**4.27**	**1.21**	**4.8**	**0.863**	<0.33	<0.33	**0.422**	3,100	NA	NA	NA	NA	NA	NA	82,000	3,100
Indeno(1,2,3-cd)pyrene	**1.55**	**0.527**	**1.7**	**0.503**	<0.33	<0.33	<0.33	0.9	0.9	1.6	NA	0.9	0.9	NA	170	0.9
Phenanthrene	**2.4**	**0.484**	**2.41**	<0.33	<0.33	<0.33	<0.33	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	**3.08**	**0.953**	**3.72**	**0.662**	<0.33	<0.33	<0.33	2,300	NA	NA	NA	NA	NA	NA	61,000	2,300
Inorganics (mg/kg)																
Arsenic	**3.1**	**2.9**	**4.5**	**4.1**	**3.5**	**4.8**	**2.4**	11.3	NA	NA	13	NA	NA	11.3	61	13
Boron	**6.7**	<5.0	**7.1**	<5.0	<5.0	<5.0	<5.0	40	NA	NA	NA	NA	NA	NA	41,000	16,000
Barium	**74.7**	**104**	**110**	**106**	**188**	**132**	**38**	1,500	NA	NA	NA	NA	NA	NA	14,000	5,500
Cadmium	<0.5	**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	5.2	NA	NA	NA	NA	NA	NA	200	78
Chromium	**20.7**	**11.9**	**9.5**	**13**	**13.2**	**12.5**	**7.0**	21	NA	NA	NA	NA	NA	NA	690	230
Cobalt	**3.8**	**3.7**	**5.5**	**7.9**	**8.1**	**7.2**	**2.2**	20	NA	NA	NA	NA	NA	NA	12,000	4,700
Copper	**40.1**	**62.5**	**10.4**	**10.6**	**10.9**	**9.4**	**11**	2,900	NA	NA	NA	NA	NA	NA	8,200	2,900
Cyanide	<0.10	<0.10	<0.10	<0.10	**0.14**	<0.10	<0.10	40	NA	NA	NA	NA	NA	NA	4,100	1,600
Iron	**16,100**	**9,340**	**12,000**	**14,000**	**13,700**	**14,500**	**8,330**	15,000	NA	NA	15,900	NA	NA	15,000	NA	NA
Lead	**93.9**	**90**	**40.7**	**26.2**	**13.3**	**13.9**	**29.1**	107	NA	NA	NA	NA	NA	NA	700	400
Magnesium	**19,100**	**18,400**	**13,700**	**10,200**	**2,900**	**1,820**	**45,600**	325,000	NA	NA	NA	NA	NA	NA	730,000	325,000
Manganese	**667**	**362**	**659**	**661**	**979**	**716**	**269**	630	NA	NA	636	NA	NA	630	4,100	1,600
Mercury	**0.19**	**0.14**	<0.05	<0.05	**0.07**	<0.05	<0.05	0.89	NA	NA	NA	NA	NA	NA	0.1	10
Nickel	**16.2**	**10.3**	**11**	**12.2**	**11.7**	**10.9**	**6.5**	100	NA	NA	NA	NA	NA	NA	4,100	1,600
Silver	<0.2	**1.5**	<0.2	<0.2	<0.2	<0.2	<0.2	4.4	NA	NA	NA	NA	NA	NA	1,000	390
Vanadium	**15**	**14.5**	**19.5**	**25.8**	**24.6**	**25.6**	**10.3**	550	NA	NA	NA	NA	NA	NA	1,400	550
Zinc	**123**	**123**	**75.7**	**44**	**55.1**	**48.1**	**32.3**	5,100	NA	NA	NA	NA	NA	NA	61,000	23,000
TCLP Inorganics (mg/L)																
Manganese	NA	NA	NA	**0.17**	<0.10	**0.15**	NA	0.15								
SPLP Inorganics (mg/kg)																
Manganese	NA	NA	NA	**0.31**	**0.5**	**0.71**	NA	0.15								

Notes:

NA = Not available

ND = Not detected above laboratory reporting limit

NT = Not tested

mg/kg = Milligrams per kilogram

mg/L = Milligrams per liter

TCLP = Toxicity Characteristic Leaching Procedure

SPLP = Synthetic Precipitation Leaching Procedure

MAC = Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill Material at Regulated Fill Operations (35 IAC 1100. Subpart F).

TACO = Tiered Approach to Corrective Action Objectives (35 IAC 742)

Metals exceed Totals but not TCLP and SPLP; or metals exceed TCLP or SPLP but not both

Metals exceed TCLP and SPLP but not Totals; or Arsenic is above 11.3 but below 13

VOCs or SVOCs exceedances; limited CCDD disposal availability

Greater than TACO Construction Worker Exposure Objectives

Non-special Waste - Greater than all MACs, Greater than most stringent TACO Tier 1 Criteria; Metals exceed Totals, TCLP, and SPLP; Metals exceed TACO Residential and not considered background; pH outside of the acceptable range (6.25 to 9.0)

Greater than TACO Residential Limit

Classification	General Use (Refer to Article 669.05 for full descriptions)
(a)(1)	ROW or off-site as non-special waste
(a)(2)	ROW or CCDD eligible within an MSA County
(a)(3)	ROW or CCDD eligible within an MSA County excluding Chicago or Chicago corporate limits
(a)(4)	ROW or CCDD eligible within an MSA County excluding te City of Chicago
(a)(5)	Non-special waste only, dispose off-site only
(a)(6)	Special and/or Hazardous waste (per analytical results), dispose off-site only
(b)(1)	ROW or off-site via Article 202.03
(b)(2)	ROW or off-site via Article 202.03
(c)	ROW or off-site via Article 202.03
Unrestricted	ROW or off-site without restrictions
Unrestricted	ROW or off-site without restrictions

Applicable Screening Criteria

[1] Most stringent MAC value (35 IAC (1100.605(e))

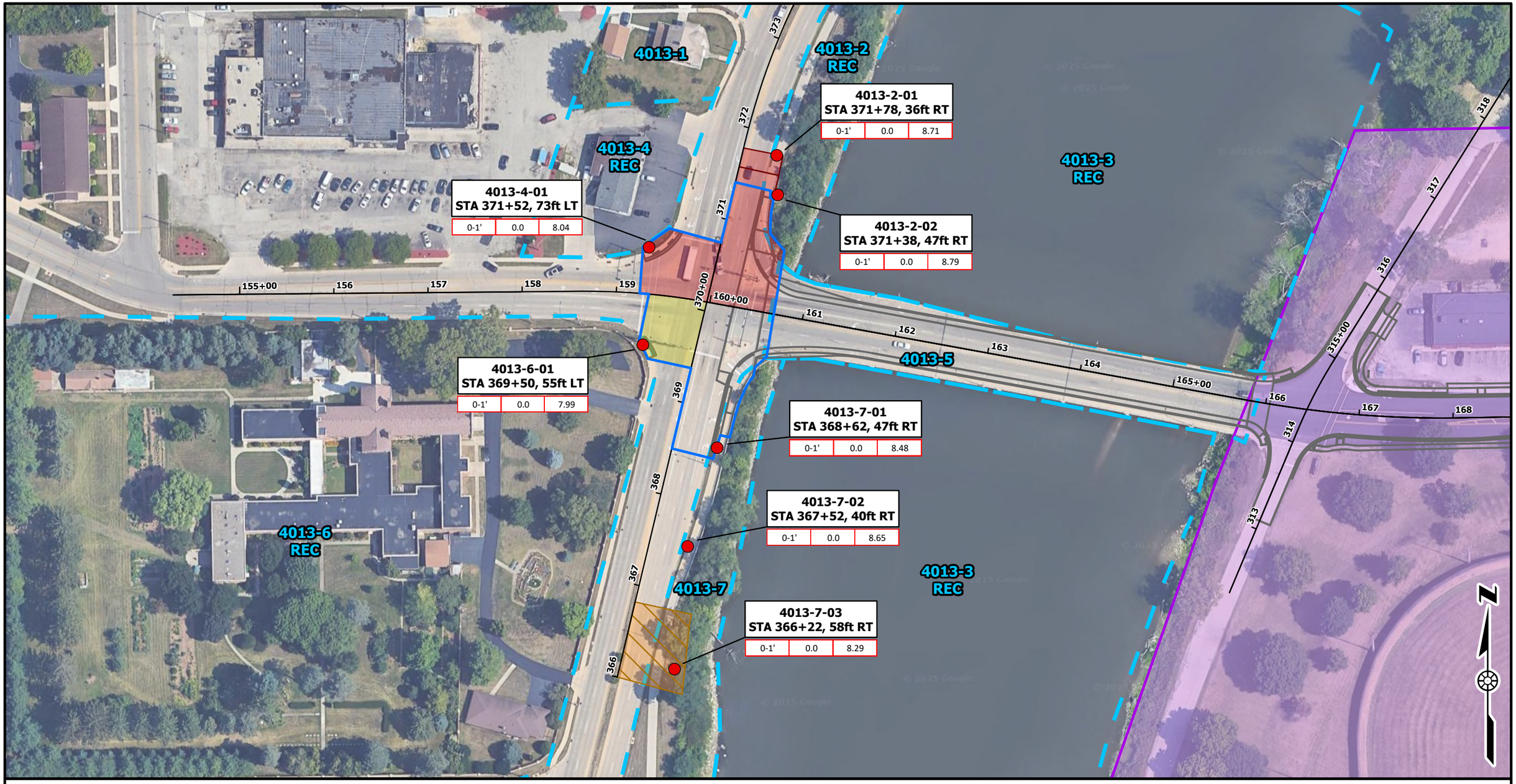
[2] Metropolitan Statistical Areas (MSA) as defined in 35 IAC 742, Appendix A, Table G.

[3] Populated Area as defined in 35 IAC 742.200.

[4] Most Stringent TACO Tier 1 Construction Worker Exposure Objective (35 IAC 742. Appendix B. Table B)

[5] Most Stringent TACO Tier 1 Residential Objective (35 IAC 742. Appendix B. Table A)

[6] TACO Tier 1 Soil to Groundwater TCLP/SPLP Objective (35 IAC 742. Appendix B. Table A)



Legend

- Project Area
- PESA Sites
- Design Plans
- Approximate Superfund Site Boundaries
- Boring Location
- 669.05(a)(1)
- 669.05(a)(3)
- 669.05(a)(5)

PID	pH
Depth	PID	pH

PID Exceeds background value or pH is outside acceptable range for CCDD disposal

0 50 100 200 Feet

DESIGNED	EM
DRAWN	EM
CHECKED	SC
APPROVED	SC
DATE	08/13/25

Huff & Huff incorporated
A Subsidiary of GZA GeoEnvironmental, Inc.

915 HARGER RD
SUITE 330
OAK BROOK, IL 60523
PH: (630) 684-9100

EXHIBIT 2
REGULATED SUBSTANCE MANAGEMENT AREAS

Location: 15th Avenue and Marchesano Drive, West Street to Orange Street
Rockford, Winnebago County, IL

BDE Sequence No: 23305	Contract No: Not Listed
IDOT Job No: Not Listed	ISGS PESA No: 4013-COV
Route: FAU 5082	City / County: Rockford / Winnebago

PTB 207-054 (H&H-3) / WO No. 25

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