SITE INVESTIGATION REPORT

Former Stout Battery
3005 West 8th Street
Muncie, Delaware County, Indiana 47302
BFD #4060050
USEPA CERCLA Section 128(a) Funding
SES Project No.: 2024-0085

June 12, 2024

Prepared for:

Muncie Redevelopment Commission
City of Muncie
300 North High Street
Muncie, Delaware County, Indiana

Indiana Brownfields Program
Indiana Finance Authority
100 North Senate Avenue, Room 1275
Indianapolis, Indiana 46204

EXECUTIVE SUMMARY

This document serves as a site investigation report for the vacant lot (aka former Stout Battery) located at 3005 West 8th Street in Muncie, Delaware County, Indiana (herein after referred to as the "site"). Site investigation was conducted in April 2024 to confirm or refute the presence of lead in soil; to assess the extent of the lead in soil; to confirm or refute the presence of certain contaminants of concern (COCs) in groundwater; and to determine if remediation may be necessary with respect to the Indiana Department of Environmental Management (IDEM) *Risk-based Closure Guide (R2)* or Environmental Protection Agency (EPA) criteria.

Investigation consisted of positioning borings and collecting samples on a 50-ft grid pattern, where accessible, across the entire site. Fifty soil borings, identified as SB1 through SB50, were advanced and soil samples collected to assess lead concentrations in soil. The sample locations are depicted as SB1 through SB50 on Figure 3. Groundwater samples were collected at five locations, identified as SB8, SB11, SB15, SB34, and SB45. Ponded water and dense vegetation prevented probe access for groundwater sampling at SB41 and groundwater did not accumulate at SB23 and SB6. The April 2024 testing results are summarized as follows:

- Surface soil samples from intervals between 0-12 inches were retained at each sampling location for lead testing. A deeper sample interval from borings SB15 through SB50 was also selected to assess the vertical extent of lead. Six samples identified as SB8, SB16, SB18, SB30, SB40 and SB50 and exhibiting the highest lead concentrations were analyzed for TCLP lead.
    - Lead concentrations in soil at SB2, SB5, SB8, SB16, SB18, SB27, SB30, SB40, SB42, SB46, and SB50 exceed a 200 mg/kg criteria proposed by EPA.
    - The lead soil contamination appears to be concentrated within the upper two feet, but also occurs at depths up to six feet beneath the south and west portions of the site. Potential areas of concern by soil depth horizon are depicted on Figures 5 through 8.
    - TCLP lead concentrations exceeding 5 mg/l were not detected, inferring the soil at these six sampling locations are not characteristic hazardous.
- Groundwater samples were collected at five locations, identified as SB8, SB11, SB15, SB34, and SB45, and analyzed for VOC, total and dissolved lead and chromium, and hexavalent chromium. The groundwater samples were turbid with suspended solids; and therefore, dissolved and total lead and chromium testing were conducted. Hexavalent chromium was analyzed in accordance with EPA Method 218.6 and this method specifies filtered samples.
    - Laboratory groundwater testing found no detectable concentrations of VOCs or dissolved lead or chromium, except dissolved chromium at SB15. The dissolved chromium concentration was well below *IDEM's groundwater published level.*
    - Hexavalent chromium was detected in groundwater but a concentrations at or below the *groundwater published level,* except at SB11 and SB15. Hexavalent chromium concentrations at SB11 and SB15 exceeded *IDEM's groundwater published level.*

In review, site investigation conducted in April 2024 confirmed the presence of lead in soil; identified lead contamination in surface and near surface soils across portions of the site; and identified the presence of hexavalent chromium in groundwater. Based on lead concentrations in soil exceeding the proposed EPA residential criteria and representing an exposure risk; remediation would be required before residential development. SES recommends at a minimum conducting additional investigation to finish defining the extent of lead in soil and further assessment of groundwater conditions.

ENVIRONMENTAL PROFESSIONAL STATEMENT

I certify, under penalty of law, that this document and all appendices and attachments as applicable were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience.

Glen A. Howard, CHMM
Senior Project Manager

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1.0 INTRODUCTION

This document serves as a site investigation report for the vacant lot (aka former Stout Battery) located at 3005 West 8th Street in Muncie, Delaware County, Indiana (herein after referred to as the "site"). Site investigation was conducted in April 2024 to confirm or refute the presence of lead in soil; to assess the extent of the lead in soil; to confirm or refute the presence of certain contaminants of concern (COCs) in groundwater; and to determine if remediation may be necessary with respect to the Indiana Department of Environmental Management (IDEM) *Risk-based Closure Guide (R2)* and/or Environmental Protection Agency (EPA) criteria.

The investigation was completed in general accordance with an approved *Sampling and Analysis Plan for Environmental Assessment* dated January 19, 2024, as well as SES's *Proposal for Environmental Assessment Services* (Proposal) dated December 20, 2023. The Proposal was incorporated within *a Professional Services Contract, Amendment #7* between the Indiana Finance Authority and SES, which was executed on January 10, 2024.

The report details the site investigation and begins by summarizing general background information pertaining to the site, surrounding area, and a previous assessment. Investigation methods and test results are then presented. The report concludes with a summary of the results of the investigation. Supporting documentation including figures, soil boring logs, and laboratory testing reports are provided in the appendices.

2.0 BACKGROUND

2.1 Site Location and Surrounding Area

The site is comprised of 3.24 acres of undeveloped grass and tree covered land. Geographically, the site area is generally located at approximately 40.1700350° north latitude and 85.3755710° west longitude. The elevation of this site area ranges from approximately 945 to 965 feet above mean sea level as shown on the Muncie east and Muncie West, Indiana USGS 7.5-Minute Quadrangle Map (Figure 1).

Surrounding property usage consists of a commercial facility beyond West 8th Street to the north followed by railroad tracks, residences to the east and west, and a trailer home park to the south and west.

2.2 Current Site Conditions

The property is undeveloped land. The north and east portions of the site property is covered with grass, as shown below, and the south and west portions are wooded. A former fire sprinkler connection (photograph below) was observed on the north portion. Ponded water is present at the site as shown below. However, significant surface water features are not present. Significant surface water features in the area include the White River and Buck Creek, which flow through the site area.

Grass Covered Portion of Site

Sprinkler Connection and Ponded Water at Site

Typical Scrub Vegetation and Trees Across West Portion, and Ponding at Central Portion

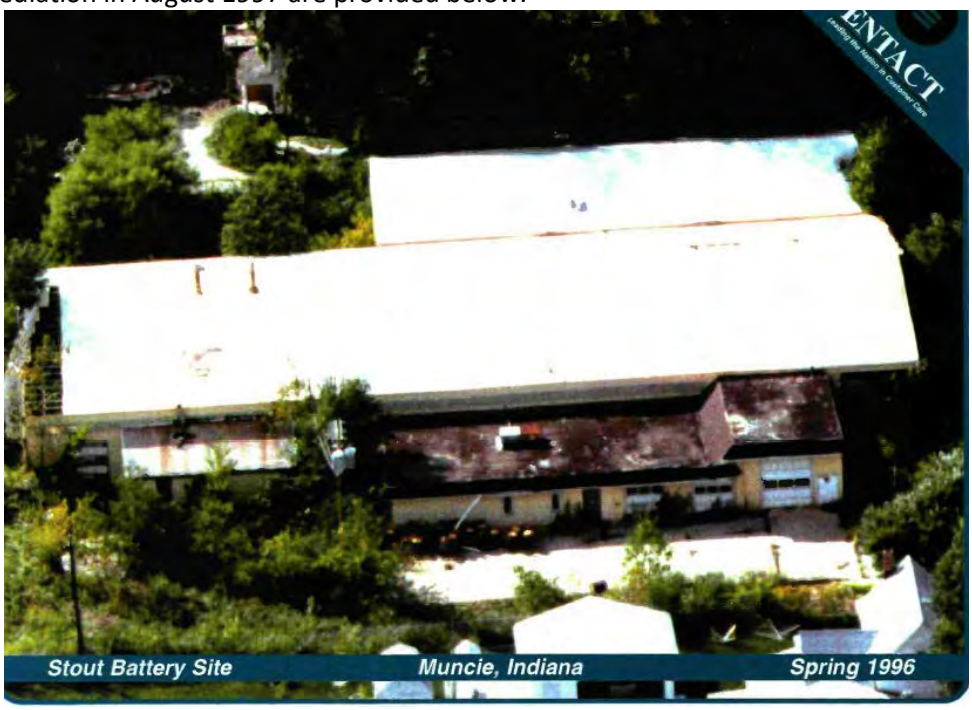
Natural gas is provided to the site area by Vectren Energy, electricity is supplied to the area by American Electric Power (AEP); Indiana American Water provides water to the site area, and the City of Muncie provides sanitary sewer service to the area.

2.3 Site History

Review of historical aerial photographs for 3005 West 8th Street indicates a small non-residential building was located on the southeast portion of the property from 1941 to 1967. The building was expanded between 1967 and 1979 and a possible lagoon is shown on the southwest portion of the property as early as 1967. Review of IDEM VFC records indicates this facility was occupied by Stout Storage Battery Corp, which acquired the property in 1957 and manufactured lead-acid batteries at the property from 1968 to 1984. The building was demolished, and remediation of lead-impacted soil was completed in 1997. The property has been undeveloped grass-covered land since 1997.

According to Entact's "Final Report for Site Activities" dated November 12, 1997 'the site has been remediated, graded, grass planted, and watered. The project totals were 1,680 cubic yards of decontaminated debris, 465 cubic yards of decontaminated concrete, 845 cubic yards of untreated soil, and 4,765 cubic yards of treated soil all of which was disposed at Randolph Farms Landfill in Modoc, Indiana. In 2016, IDEM conducted an inspection at the property as part of a RCRA Facility Assessment. The purpose of the inspection was to verify there were no ongoing operations that would create releases that should be addressed under RCRA Corrective Action. IDEM concluded that extensive work had been conducted at the property under the oversite of IDEM's State Cleanup Program and no additional investigation or corrective action is needed. In correspondence dated February 4, 2021, IDEM stated that monitoring wells at the site should be abandoned. After confirmation that all wells have been properly abandoned, a Statement of Basis will be prepared to document IDEM's recommendation for a Corrective Action Completion determination.'

Aerial photographs in the Entact report showing the Stout Battery site before demolition in Spring 1996 and soil excavation remediation in August 1997 are provided below.



2.4 Phase II Environmental Site Assessment Report – June 2022

SES Environmental completed an environmental investigation at the site in June 2022. The investigation consisted of advancing 39 soil borings. Sampling locations were identified as GP1 through GP39, which are depicted on Figure 2 (attached). Groundwater samples were obtained at GP-9, GP-19, GP-26, GP-31, and GP-36. Investigation results were summarized as follows.

- Field staff found no evidence of any previously installed monitoring wells or production wells at the site.
- Dry sandy clay and clay was encountered at each boring location. Sand was only occasionally encountered. Field staff indicated a mixture of sand and clay fill material was present at GP7 through GP15, GP17, GP20, GP27 through GP29, GP32 through GP35, and GP37 through GP39. This surface fill extended to depths of approximately 0.5 to 1 foot.
- Field evidence of contamination (as elevated PID responses, staining or odor) was not apparent at any boring, except an odor was noted at GP7 and GP9. Groundwater flow direction was not assessed.
- Lead concentrations in soil exceeding the *residential direct contact screening level* of 400 mg/kg were reported at GP-4 (3-4'), GP-11 (0-6"), GP-14 (0-6"), GP-15 (0-6"), GP-17 (0-6"), GP-19 (0-6"), GP-20 (0-6"), GP-23 (0-6"), GP-26 (0-6"), GP-27 (0-6"), GP-29 (0-6"), GP-31 (0-6"), and GP-32 (0-6").
- TCLP testing results found lead concentrations exceeding 5 mg/l at GP-32 (0-6"), but not at the other two locations that were tested.
- Trichloroethene (TCE) evidenced by concentrations exceeding the *migration to groundwater screening level* was detected in soil at GP31. The TCE soil concentration did not exceed the *residential direct contact screening level.*

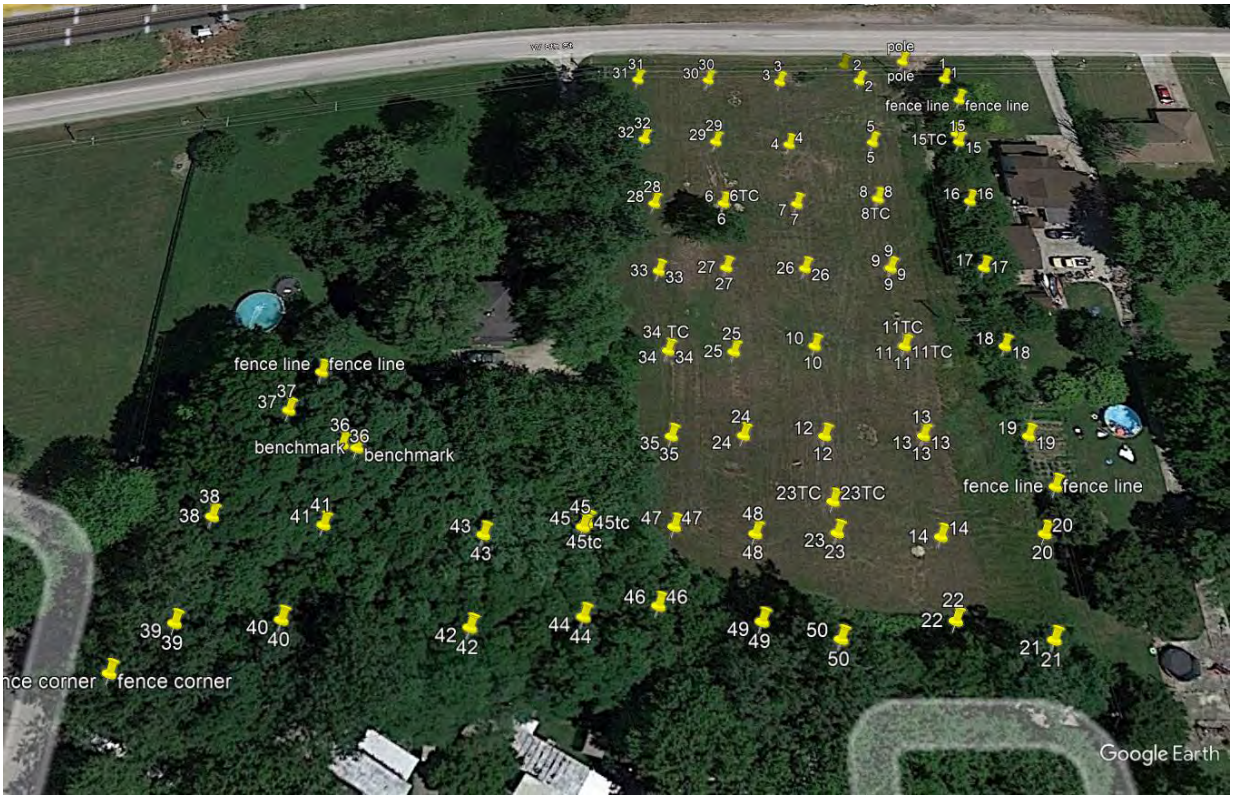
- Soil sampling and testing found no evidence of significant PAH and hexavalent concentrations in soil, nor significant RCRA 8 metals and VOC concentrations in soil, except for the noted lead and TCE.

- Groundwater testing found no detectable concentrations of VOCs, PAHs, or dissolved RCRA 8 metals. Total barium, total chromium, and hexavalent chromium were detected in groundwater; however, concentrations were at or below *tap water screening levels.* More specifically, samples GP-19 and GP-26 exhibited hexavalent chromium concentrations of 0.36 and 0.37 ug/l, respectively. The *tap water screening level* for hexavalent chromium is 0.35 ug/l.

In summary, the June 2022 investigation found evidence of lead soil contamination across the north, east, and south-central portions of the site.

3.0 SITE INVESTIGATION

Site investigation was conducted in April 2024 to confirm or refute the presence of lead in soil; to assess the extent of the lead in soil; to confirm or refute the presence of certain COCs in groundwater; and to determine if a remediation work plan is necessary. More specifically, investigation consisted of positioning borings and collecting samples on a 50-ft grid pattern, where accessible, across the entire site. Fifty soil borings, identified as SB1 through SB50, were advanced and soil samples collected to assess lead concentrations in soil. In addition, groundwater samples were collected at five locations, identified as SB8, SB11, SB15, SB34, and SB45. Ponded water and dense vegetation prevented probe access for groundwater sampling at SB41 and groundwater did not accumulate at SB23 and SB6. And, the probe unit was unable to extend sampling equipment beyond a depth of 12 feet at SB23; and shallow groundwater was not encountered at SB23. The sampling locations are depicted as SB1 through SB50 on Figure 2 and as points 1 through 50 in the aerial photograph below.



Aerial Mapping Provided through American Locating (Google 11/7/2020 imagery)

Pursuant to the approved SAP, 14 borings (within the north identified lead soil contamination area documented in the Phase II ESA) were extended to a depth of approximately 2 feet and these borings were identified as SB1 through SB14. Per the SAP, 25 borings (outward of identified lead soil contamination areas identified in the Phase II ESA) were extended to a depth of approximately 4 feet and these borings were identified as SB15 through SB39. And finally, per the SAP, 11 borings (within the south lead soil contamination area identified in the Phase II ESA) were extended to a depth of approximately 12 feet or refusal and these borings are identified as SB40 through SB50.

3.1 Geophysical Survey

A geophysical survey was conducted by American Locating on April 22, 2024. The geophysical survey included ground penetrating radar (GPR). In addition, SES notified Indiana811 to have public utilities identified. Buried utilities were not identified within the scanned areas. However, a municipal water line was identified in the West 8th Street right of way, extending east to west, south of the travel lanes, and a geophysical anomaly as depicted on Figure 2 was also identified by GPR. An excavation or 'pit like' area was reported by America Locating staff.

3.2 Soil Boring / Sampling Methods

Acronyms
PAH = polycyclic aromatic hydrocarbons
PID = photoionization detector
ppmv = parts per million by volume
RCRA = Resource Conservation Recovery Act
s.u. = standard unit
SVOCs = semi volatile organic compounds
VOC = volatile organic compounds

Soil borings were advanced using track mounted direct-push Geoprobe™ 7822DT equipment and/or using a hand auger equipped with a stainless steel bucket. Soil samples were collected continuously at the boring locations from the surface to depths ranging from 2 to 24 feet (depth of direct push technology refusal). Samples retained using direct push technology were collected in accordance with ASTM D6282 methodology using a dual-tube sample retrieval system or a macro-core. A new inner acetate sleeve was used for each sample interval. Hand auger samples were collected in accordance with ASTM 1452-80 methodology at locations SB21, SB36 through SB44, SB46, SB49, and SB50, as access with probe unit was not possible.

Sampling equipment that contacted soil was decontaminated with an Alconox® detergent wash and tap water rinse before initiating investigative activities and between sampling locations to reduce the possibility of cross-contamination between locations and boreholes.

Soil samples were handled, visually inspected, screened, and preserved for laboratory analysis in accordance with industry standard practices as follows:

- Soil samples were removed from the sampling device and split into two parts. The first part was processed for possible laboratory analysis. The second part was placed into a plastic, sealable container for field headspace screening.
- Samples retained for lead testing were packaged into Envision provided 4-ounce, laboratory-supplied, glass sample containers; then labeled, and placed in a cooler containing ice pending transport to Envision.
- All samples were handled with minimum contact and gloved hands. New, disposable, nitrile gloves were used to handle each sample.
- Following infield preservation, all soil samples were visually inspected in the field by an SES geologist and classified according to color, texture, and relative moisture content in accordance with ASTM Standard D 2488. Visual evidence of staining and/or distinct odors was also noted, if present. Results of the visual examination were recorded on standard boring logs (Appendix A).

- Following the completion of each boring, the portion of each sample retained for headspace screening was analyzed by inserting the probe of a PID into the container. The highest observed PID measurement was recorded as total volatile organic compounds in parts per million by volume (ppmv). Prior to sample screening, the PID was field-calibrated with a 100 ppmv isobutylene standard according to the manufacturer's specifications. PID measurement was completed for screening purposes and not for selection of samples for lead testing.
- In accordance with the SAP, one soil sample was obtained from borings extended to two feet (14 locations and identified as SB1 through SB14). Two soil sample depth intervals were retained from each of the remaining borings (36 locations and identified as SB15 through SB50). In accordance with the SAP, one soil sample was retained at the surface (0-12 inches) and a second sample was retained from the bottom of the boring.
- Soil samples were selected for laboratory lead testing (Method 6010) on the above described rationale. Test results were presented in dry weight (dry weight/percent solids in accordance with EPA Method 1684).

Quality control samples included blind duplicates and matrix spike/matrix spike duplicate (MS/MSD) samples. Equipment blank samples were not retained nor specified in the SAP as dedicated single use equipment were specified. Four duplicate samples were collected as detailed above by filling additional laboratory containers. Extra sample volumes were obtained at SB2 (0-1'), SB25 (0-1'), SB38 (0-1') and SB46 (0-1') to evaluate matrix effects. Samples were labeled, entered into chain-of-custody, placed into a cooler filled with ice, and transported to Envision.

Duplicate Samples
SB 5 0-1 FD Duplicate SB5 (0-1')
SB 24 0-1 FD Duplicate SB24 (0-1')
SB 37 0-1 FD Duplicate SB37 (0-1')
SB 45 0-1 FD Duplicate SB45 (0-1')

Investigation derived soil was contained within a 55-gallon drum pending off-site disposal. Sampling and testing for waste profiling purposes included six samples for TCLP lead, and a representative sample of the drummed soil for VOC, Phenol, RCRA 8 metals, and SVOC testing. A representative sample was manually collected from the drummed material. Six samples, identified as SB8, SB16, SB18, SB30, SB40 and SB50, exhibited the highest lead concentrations and were then analyzed for TCLP lead for profiling purposes.

3.3 Groundwater Sampling

As previously noted, groundwater samples were collected at five locations, identified as SB8, SB11, SB15, SB34, and SB45. Ponded water and dense vegetation prevented probe access for groundwater sampling at SB41 and groundwater did not accumulate at SB23 and SB6. Temporary groundwater sampling points were installed using small diameter PVC casing and machine slotted screen. The screened interval was positioned to intercept potential water bearing soils – based on visual inspection of soil samples. Sample point soil boring logs are provided in Appendix A. The samples were collected using conventional purging and sampling methods in accordance with industry standard practices as follows:

- Purging and sampling was conducted using a disposal single use bailer.
- Samples were discharged directly into laboratory-provided sample containers.
- Each sample was discharged directly into Envision provided, two, 40-ml glass sample vials containing HCl acid preservative, leaving no headspace. These samples were analyzed for VOCs in accordance with SW846 Method 8260.
- Groundwater was then discharged into Eurofins provided sample bottles and filters for hexavalent chromium testing. Envision subcontracted Eurofin to complete testing in accordance with EPA Method 218.6.
- The final samples portions included one 250-ml plastic container with HNO3 preservative for total lead and chromium metals testing and one unpreserved 250-ml plastic container for dissolved lead and chromium testing. The dissolved lead and chromium samples were filtered at and by the laboratory (0.45 µm membrane) and preserved by the laboratory.

- Samples were labeled, entered chain-of-custody, placed into a cooler filled with ice, and transported to Envision. Samples were transported to Envision by their own courier/staff member. As noted, samples retained for hexavalent chromium testing were then transported to Eurofins South Bend, Indiana, under subcontract to Envision.
- A laboratory provided trip blank accompanied samples. In addition, a blind duplicate groundwater sample was collected at SB45 and identified as SB45 FD. Extra sample volume was retained at SB34 for matrix interference testing purposes.

3.4 Surveying and Gauging

Elevations were established for the top of casing by American Locating. Elevations were established to an accuracy of at least 0.01 feet. Measurement was conducted to locate the position of each point relative to significant site features. American also established global positioning system (GPS) coordinates for the temp wells and sampling points.

Table 1. American Locating Data
Former Stout Battery, 3005 West 8th Street
Muncie, Delaware County, Indiana 47302
BFD #4060050

Boring/Temp Well	Easting	Northing	Elevation (feet)	Longitude	Latitude
SB1	396761.569	1797003.618	946.229	-85.42087186	40.18174915
SB 2	396710.644	1797002.163	946.513	-85.42105413	40.18174555
SB 3	396663.115	1797000.892	946.863	-85.42122424	40.18174242
SB 4	396664.861	1796951.408	946.175	-85.42121848	40.18160657
SB 5	396712.874	1796953.461	946.131	-85.42104663	40.18161184
SB 6	396625.315	1796908.025	945.832	-85.42136045	40.18148778
6 TC (top of casing)	396625.344	1796908.345	946.523	-85.42136034	40.18148866
SB 7	396665.756	1796907.952	945.791	-85.42121571	40.18148727
SB 8	396710.960	1796911.804	945.306	-85.42105389	40.18149750
8TC	396710.828	1796912.354	946.448	-85.42105436	40.18149901
SB 9	396712.067	1796864.462	945.062	-85.42105040	40.18136754
SB 10	396667.148	1796815.177	945.397	-85.42121165	40.18123259
SB 11	396712.860	1796815.314	944.641	-85.42104804	40.18123262
11TC	396712.828	1796815.868	945.078	-85.42104815	40.18123414
SB 12	396667.262	1796763.503	945.354	-85.42121175	40.18109074
SB 13	396715.097	1796763.917	944.666	-85.42104055	40.18109151
SB 14	396715.631	1796711.654	944.813	-85.42103916	40.18094804
SB 15	396762.328	1796953.852	945.830	-85.42086963	40.18161254
15TC	396761.809	1796959.953	946.928	-85.42087143	40.18162929
SB 16	396761.652	1796910.411	945.497	-85.42087248	40.18149329
SB 17	396761.687	1796865.013	945.258	-85.42087281	40.18136867
SB 18	396763.943	1796815.714	944.792	-85.42086522	40.18123333
SB 19	396766.038	1796764.134	944.465	-85.42085824	40.18109172
SB 20	396763.766	1796713.428	945.131	-85.42086687	40.18095255

Continued next page

Table 1 Continued. American Locating Data
Former Stout Battery, 3005 West 8th Street
Muncie, Delaware County, Indiana 47302
BFD #4060050

Boring/Temp Well	Easting	Northing	Elevation (feet)	Longitude	Latitude
SB 21	396757.842	1796663.655	945.221	-85.42088856	40.18081596
SB 22	396716.159	1796672.016	945.551	-85.42103766	40.18083923
SB 23	396668.223	1796713.275	945.707	-85.42120881	40.18095285
23TC	396667.866	1796729.054	946.555	-85.42120993	40.18099617
SB 24	396627.969	1796763.518	945.587	-85.42135238	40.18109108
SB 25	396625.837	1796811.316	945.305	-85.42135953	40.18122230
SB 26	396666.496	1796863.954	945.888	-85.42121350	40.18136649
SB 27	396624.666	1796864.105	945.538	-85.42136320	40.18136722
SB 28	396587.047	1796906.594	947.082	-85.42149742	40.18148414
SB 29	396622.947	1796953.032	946.251	-85.42136847	40.18161134
SB 30	396620.665	1797001.998	946.833	-85.42137616	40.18174578
SB 31	396578.748	1797001.028	947.783	-85.42152619	40.18174343
SB 32	396582.011	1796953.898	947.314	-85.42151497	40.18161403
SB 33	396588.776	1796861.368	947.829	-85.42149168	40.18135998
SB 34	396592.663	1796811.752	948.025	-85.42147826	40.18122375
34 TC	396592.569	1796812.036	948.650	-85.42147859	40.18122453
SB 35	396593.133	1796763.001	946.436	-85.42147705	40.18108992
SB 36	396435.989	1796756.170	953.051	-85.42203952	40.18107236
SB 37	396407.638	1796774.597	956.016	-85.42214081	40.18112316
SB 38	396380.882	1796719.116	950.586	-85.42223711	40.18097106
SB 39	396374.066	1796669.001	950.329	-85.42226200	40.18083354
SB 40	396420.367	1796670.674	957.238	-85.42209628	40.18083778
SB 41	396432.672	1796715.077	953.001	-85.42205180	40.18095958
SB 42	396502.989	1796667.554	955.428	-85.42180061	40.18082859
SB 43	396506.101	1796710.724	946.472	-85.42178905	40.18094708
SB 44	396552.402	1796672.542	953.391	-85.42162372	40.18084192
SB 45	396551.370	1796714.994	946.626	-85.42162699	40.18095846
45 TC	396553.049	1796716.824	946.721	-85.42162097	40.18096347
SB 46	396585.418	1796677.906	954.495	-85.42150551	40.18085639
SB 47	396593.330	1796715.796	945.241	-85.42147682	40.18096034
SB 48	396630.477	1796712.656	945.013	-85.42134390	40.18095144
SB 49	396630.720	1796671.092	949.702	-85.42134344	40.18083734
SB 50	396664.651	1796663.427	946.190	-85.42122208	40.18081604

NAD83(2011) / Indiana East + EGM2008 height TC: top of casing

The depth to groundwater was gauged on April 25, 2024 (approximately 2 days after piping installation) using an electronic wireline meter. Measurements were recorded to the nearest 0.01 ft. The gauging probe was decontaminated prior to use and between each point location.

3.5 Investigation Results

3.5.1 Soil and Groundwater Conditions

Surface and near surface soil generally consisted of clay and sandy clay. Clay soils also extended to depths of 17 to at least 24 feet at SB6, SB8, SB11, and SB34. In general, clay soils are dominant beneath the site, except for the following observed conditions:

- A mixture of sand, gravel, and clay was noted at depths of 10 to 20 feet and a wet sand seam was noted at depths of 20 to 21 feet at SB11.
- Sand and gravel was noted at depths of 12 to 24 feet at SB15.
- Gravel was noted at depths of 10 to 12.5 feet refusal depth at SB23.
- Sand and gravel were noted at depths of 12 to 24 feet at SB45.

Field evidence of soil contamination, such as staining and odors, was not observed, except at SB48. Petroleum odor and PID responses greater than background of 5 ppmv were noted at depths of 4 to 10 feet at SB48.

Groundwater gauging data is summarized below. Depth to groundwater was approximately 15 to 17 feet, with exception of SB34. Groundwater elevations are shown on Figure 3 and flow to the south or west could be inferred, without using SB34 data. Additional temporal monitoring is recommended.

Table 2. Groundwater Elevations
Former Stout Battery, 3005 West 8th Street
Muncie, Delaware County, Indiana 47302
BFD #4060050

Temp Well	Easting	Northing	Top of Casing Elevations (feet)	Date	Depth to Water (feet)	Groundwater Elevations (feet)
SB6	396625.344	1796908.345	946.52	4/25/2024	9.60 (purged dry)	Dry
SB8	396710.828	1796912.354	946.45	4/25/2024	16.46	929.99
SB11	396712.828	1796815.868	945.08	4/25/2024	14.67	930.41
SB15	396761.809	1796959.953	946.93	4/25/2024	16.46	930.47
SB23	396667.866	1796729.054	946.56	4/25/2024	Dry at 12.55 ft	Dry
SB34	396592.569	1796812.036	948.65	4/25/2024	4.88	943.77
SB45	396553.049	1796716.824	946.72	4/25/2024	17.33	929.39

Elevations were established for the top of casing by American Locating

3.5.2 Soil Testing Results

Surface soil samples from intervals between 0-12 inches were retained at each sampling location for lead testing. A deeper sample interval from borings SB15 through SB50 was also selected to assess the vertical extent of lead. Six samples identified as SB8, SB16, SB18, SB30, SB40 and SB50 and exhibiting the highest lead concentrations were analyzed for TCLP lead. Soil "lead" testing results are summarized in the following table along with previous investigation lead testing results. IDEM's *Residential Human Health Level* for lead is 400 mg/kg. However, EPA is reportedly lowering recommended screening levels and strengthening guidance for investigating and cleaning up lead-contaminated soil in residential areas where children live and play. Based on Program inquiry, SES understands a 200 mg/kg criteria is being considered for this site (Appendix D).

Table 3. Soil Testing for Lead
Former Stout Battery, 3005 West 8th Street
Muncie, Delaware County, Indiana 47302
BFD #4060050

Sample ID (depth interval)	Sample Date	Lead (mg/kg)
GP-1 (0-6″)	6/9/2022	22.9
GP-1 (3-4′)	6/9/2022	11
GP-2 (0-6″)	6/9/2022	22
GP-2 (3-4′)	6/9/2022	6.7
GP-3 (0-6″)	6/9/2022	12
GP-3 (3-4′)	6/9/2022	6.5
GP-4 (0-6″)	6/9/2022	**266**
GP-4 (3-4′)	6/9/2022	**1480**
GP-5 (0-6″)	6/9/2022	17
GP-5 (3-4′)	6/9/2022	6.2
GP-6 (0-6″)	6/9/2022	8.4
GP-6 (3-4′)	6/9/2022	3.4
GP-7 (0-6″)	6/7/2022	12
GP-7 (4-6′)	6/7/2022	<2
GP-8 (0-6″)	6/7/2022	90
GP-8 (2-4′)	6/7/2022	4.7
GP-9 (0-6″)	6/7/2022	36
GP-9 (6-8′)	6/7/2022	2.7
GP-10 (0-6″)	6/8/2022	17
GP-10 (2-4′)	6/8/2022	**366**
GP-11 (0-6″)	6/8/2022	**4490** (TCLP = 0.11 mg/l)
GP-11 (2-4′)	6/8/2022	10
GP-12 (0-6″)	6/8/2022	**234**
GP-12 (2-4′)	6/8/2022	32
GP-13 (0-6″)	6/8/2022	**389**
GP-13 (2-4′)	6/8/2022	3.5
GP-14 (0-6″)	6/8/2022	**429**
GP-14 (2-4′)	6/8/2022	2.2
GP-15 (0-6″)	6/8/2022	**420**
GP-15 (2-4′)	6/8/2022	<2
GP-16 (0-6″)	6/8/2022	95
GP-16 (2-4′)	6/8/2022	6.2
GP-17 (0-6″)	6/8/2022	**781**
GP-17 (2-4′)	6/8/2022	6.6
GP-18 (0-6″)	6/8/2022	**361**
GP-18 (2-4′)	6/8/2022	10
GP-19 (0-6″)	6/7/2022	**1220**
GP-19 (6-8′)	6/7/2022	3.3
GP-20 (0-6″)	6/8/2022	**448**
GP-20 (2-4′)	6/8/2022	14
GP-21 (0-6″)	6/9/2022	60
GP-21 (2-4′)	6/9/2022	8.4
GP-22 (0-6″)	6/9/2022	105
GP-22 (2-4′)	6/9/2022	9.0
GP-23 (0-6″)	6/9/2022	**741**
GP-23 (2-4′)	6/9/2022	<2
GP-24 (0-6″)	6/9/2022	13
GP-24 (2-4′)	6/9/2022	6.4
GP-25 (0-6″)	6/9/2022	**328**
GP-25 (2-4′)	6/9/2022	12
GP-26 (0-6″)	6/7/2022	**916**
GP-26 (10-12′)	6/7/2022	<2
GP-27 (0-6″)	6/8/2022	**3730** (TCLP = <0.01 mg/l)
GP-27 (2-4′)	6/8/2022	<2
GP-28 (0-6″)	6/8/2022	76
GP-28 (2-4′)	6/8/2022	19
GP-29 (0-6″)	6/9/2022	**574**
GP-29 (2-4′)	6/9/2022	8.1
GP-30 (0-6″)	6/8/2022	99
GP-30 (2-4′)	6/8/2022	14
GP-31 (0-6″)	6/7/2022	**1470**
GP-31 (10-12′)	6/7/2022	5.4
GP-32 (0-6″)	6/8/2022	**4640** (TCLP = 23 mg/l)
GP-32 (2-4′)	6/8/2022	<2
GP-33 (0-6″)	6/8/2022	**384**
GP-33 (2-4′)	6/8/2022	6.0
GP-34 (0-6″)	6/8/2022	**257**
GP-34 (2-4′)	6/8/2022	4.6
GP-35 (0-6″)	6/8/2022	**266**
GP-35 (2-4′)	6/8/2022	7.7
GP-36 (0-6″)	6/7/2022	51
GP-36 (6-8′)	6/7/2022	<2
GP-37 (0-6″)	6/8/2022	132
GP-37 (2-4′)	6/8/2022	<2
GP-38 (0-6″)	6/8/2022	**328**
GP-38 (2-4′)	6/8/2022	5.0
GP-39 (0-6″)	6/8/2022	4.8
GP-39 (2-4′)	6/8/2022	3.1

Continued next page

Table 3 Continued. Soil Testing for Lead
Former Stout Battery, 3005 West 8th Street
Muncie, Delaware County, Indiana 47302
BFD #4060050

Sample ID (depth interval)	Sample Date	Lead (mg/kg)
SB 1 0-1	4/22/24	73
SB 2 0-1	4/22/24	**270**
SB 3 0-1	4/22/24	15
SB 4 0-1	4/22/24	17
SB 5 0-1	4/22/24	**375**
SB 5 0-1 FD	4/22/24	**324**
SB 6 0-1	4/22/24	16
SB 7 0-1	4/22/24	15
SB 8 0-1	4/22/24	**8740** (TCLP = 0.72 mg/l)
SB 9 0-1	4/22/24	91
SB 10 0-1	4/22/24	73
SB 11 0-1	4/22/24	54
SB 12 0-1	4/22/24	17
SB 13 0-1	4/22/24	8.3
SB 14 0-1	4/22/24	17
SB 15 0-1	4/22/24	8.5
SB 15 2-4	4/22/24	16
SB 16 0-1	4/22/24	**1160** (TCLP = 0.21 mg/l)
SB 16 2-4	4/22/24	30
SB 17 0-1	4/22/24	65
SB 17 2-4	4/22/24	13
SB 18 0-1	4/22/24	155
SB 18 2-4	4/22/24	**506** (TCLP = 0.22 mg/l)
SB 19 0-1	4/22/24	171
SB 19 2-4	4/22/24	13
SB 20 0-1	4/22/24	16
SB 20 2-4	4/22/24	13
SB 21 0-1	4/23/24	11
SB 21 2-4	4/23/24	17
SB 22 0-1	4/22/24	16
SB 22 2-4	4/22/24	10
SB 23 0-1	4/22/24	7.9
SB 23 2-4	4/22/24	6.1
SB 24 0-1	4/22/24	7.2
SB 24 2-4	4/22/24	4.8
SB 24 0-1 FD	4/22/24	12
SB 25 0-1	4/22/24	12
SB 25 2-4	4/22/24	8.4
SB 26 0-1	4/22/24	16
SB 26 2-4	4/22/24	23
SB 27 0-1	4/22/24	**481**
SB 27 2-4	4/22/24	35
SB 28 0-1	4/23/24	16
SB 28 2-4	4/23/24	7.9
SB 29 0-1	4/22/24	32
SB 29 2-4	4/22/24	22
SB 30 0-1	4/22/24	**580** (TCLP = 0.057 mg/l)
SB 30 2-4	4/22/24	17
SB 31 0-1	4/22/24	37
SB 31 2-4	4/22/24	50
SB 32 0-1	4/22/24	43
SB 32 2-4	4/22/24	13
SB 33 0-1	4/23/24	6.8
SB 33 2-4	4/23/24	6.7
SB 34 0-1	4/23/24	6.7
SB 34 2-4	4/23/24	5.6
SB 35 0-1	4/23/24	6.2
SB 35 2-4	4/23/24	5.6
SB 36 0-1	4/23/24	43
SB 36 2-4	4/23/24	20
SB 37 0-1	4/23/24	11
SB 37 0-1 FD	4/23/24	13
SB 37 2-4	4/23/24	16
SB 38 0-1	4/23/24	49
SB 38 2-4	4/23/24	49
SB 39 0-1	4/23/24	152
SB 39 2-4	4/23/24	48
SB 40 0-1	4/23/24	**269**
SB 40 4-6	4/23/24	**548** (TCLP = 0.017 mg/l)
SB 41 0-1	4/23/24	24
SB 41 4-6	4/23/24	112
SB 42 0-1	4/23/24	**369**
SB 42 4-6	4/23/24	16
SB 43 0-1	4/23/24	19
SB 43 4-6	4/23/24	7.6
SB 44 0-1	4/23/24	73
SB 44 4-6	4/23/24	71
SB 45 0-1	4/23/24	28
SB 45 10-12	4/23/24	6.8
SB 45 0-1 FD	4/23/24	6.7
SB 46 0-1	4/23/24	**207**
SB 46 4-6	4/23/24	10
SB 47 0-1	4/23/24	9
SB 47 10-12	4/23/24	6.5
SB 48 0-1	4/22/24	27
SB 48 10-12	4/22/24	4.7
SB 49 0-1	4/23/24	21
SB 49 4-6	4/23/24	8.8
SB 50 0-1	4/23/24	184
SB 50 2-4	4/23/24	**4580** (TCLP = 4.83 mg/l)

Results reported in mg/kg (milligrams per kilogram; parts per million)
Bold indicates concentration exceeds a 200 mg/kg criteria
TCLP: toxicity characteristic leaching procedure
mg/l: milligrams per liter

As indicated in Table 3, lead was detected in most soil samples. Lead concentrations in soil at GP4, GP10 through GP15, GP17 through GP20, GP23, GP25 through GP27, GP29, GP31 through GP35, GP38, SB2, SB5, SB8, SB16, SB18, SB27, SB30, SB40, SB42, SB46, and SB50 exceed the 200 mg/kg criteria.

TCLP lead concentrations exceeding 5 mg/l were reported at GP-32 (0-6"), but not at the other eight locations.

3.5.3 Groundwater Testing Results

Groundwater samples were collected at five locations, identified as SB8, SB11, SB15, SB34, and SB45, and analyzed for VOC, total and dissolved lead and chromium, and hexavalent chromium. The groundwater samples were turbid with suspended solids; and therefore, dissolved and total lead and chromium testing were conducted. Hexavalent chromium was analyzed in accordance with EPA Method 218.6 and this method specifies filtered samples. Groundwater testing results are summarized in the following table, along with the previous investigation results. IDEM's *groundwater published levels* are included for reference.

Table 4. Groundwater Testing Results
Former Stout Battery, 3005 West 8th Street
Muncie, Delaware County, Indiana 47302
BFD #4060050

Sample ID	Sample Date	Detected Parameter		*Groundwater Published Levels (ug/l)*
		Parameter	Concentration (ug/l)	
GP-9	6/22/2022	No VOCs Detected No PAHs Detected No RCRA Metals Detected Hexavalent Chromium	 0.21	 *0.4*
GP-19	6/22/2022	No VOCs Detected No PAHs Detected No Dissolved RCRA Metals Detected Hexavalent Chromium	 0.36	 *0.4*
GP-26	6/22/2022	No VOCs Detected No PAHs Detected No Dissolved RCRA Metals Detected Hexavalent Chromium	 0.37	 *0.4*
GP-31	6/22/2022	No VOCs Detected No PAHs Detected No Dissolved RCRA Metals Detected Hexavalent Chromium	 0.26	 *0.4*
GP-36	6/22/2022	No VOCs Detected Chrysene No Dissolved RCRA Metals Detected Hexavalent Chromium	 0.230 0.29	 *250* *0.4*
SB-8	4/25/2024	No VOCs Detected No Dissolved Chromium or Lead Detected No Hexavalent Chromium Detected		
SB-11	4/25/2024	No VOCs Detected No Dissolved Chromium or Lead Detected Hexavalent Chromium	 **0.50**	 *0.4*
SB-15	4/25/2024	No VOCs Detected Dissolved Chromium No Dissolved Lead Hexavalent Chromium	 28 **10**	 *100* *0.4*

Continued next page

Table 4 Continued. Groundwater Testing Results
Former Stout Battery, 3005 West 8th Street
Muncie, Delaware County, Indiana 47302
BFD #4060050

Sample ID	Sample Date	Detected Parameter		*Groundwater Published Levels (ug/l)*
		Parameter	Concentration (ug/l)	
SB-34	4/25/2024	No VOCs Detected No Dissolved Chromium or Lead Detected Hexavalent Chromium	0.15	
SB-45	4/25/2024	No VOCs Detected No Dissolved Chromium or Lead Detected Hexavalent Chromium	0.30	*0.4*
Quality Assurance				
FD GP-40 [Duplicate GP-36]	6/22/2022	No VOCs Detected No PAHs Detected No Dissolved RCRA Metals Detected Hexavalent Chromium	0.55	*0.4*
Trip Blank	6/22/2022	No VOCs Detected		
SB-45FD [Duplicated SB-34]	4/25/2024	No VOCs Detected No Dissolved Chromium or Lead Detected Hexavalent Chromium	0.26	*0.4*
Extra sample volume obtained at GP-31 to evaluate matrix effects.				

ug/l: micrograms per liter (parts per billion)
PAH: polycyclic aromatic hydrocarbons
VOC: volatile organic compound

As indicated, laboratory groundwater testing found no detectable concentrations of VOCs, PAHs, or dissolved RCRA 8 metals, except a trace chrysene concentration at GP-36 and dissolved chromium at SB15. Hexavalent chromium was also detected in groundwater at concentrations at or below the *groundwater published level,* except at SB11 and SB15. Hexavalent chromium concentrations at SB11 and SB15 exceeded the *groundwater published level.*

4.0 SUMMARY

Investigation found evidence of lead contamination, with contamination defined as lead concentrations in soil in excess of proposed EPA residential criteria, in soil across large portions of the site. As indicated, lead concentrations in soil at GP4, GP10 through GP15, GP17 through GP20, GP23, GP25 through GP27, GP29, GP31 through GP35, GP38, SB2, SB5, SB8, SB16, SB18, SB27, SB30, SB40, SB42, SB46, and SB50 exceed the 200 mg/kg criteria. The lead soil contamination appears to be concentrated within the upper two feet, but also occurs at depths up to six feet beneath the south and west portions of the site. Potential areas of concern by soil depth horizon are depicted on Figures 5 through 7. For the purpose of area of concern mapping, the most conservative residential soil lead of 100 ppm was selected.

TCLP lead concentrations exceeding 5 mg/l were reported at GP-32 (0-6”), but not at the other eight locations. The TCLP lead concentration at GP-32 has not been confirmed, with repeat sampling and testing. Testing results infer lead concentration in soil at eight sampling locations are not characteristic hazardous.

As noted in Section 2.4, previous soil sampling and testing found no evidence of significant PAH and hexavalent chromium concentrations in soil, nor significant RCRA 8 metals and VOC concentrations in soil, except for the noted lead and TCE. Trichloroethene (TCE) concentrations exceeding the then *migration to groundwater screening level* was detected in soil at GP31; however, the TCE soil concentration did not exceed the then

residential direct contact screening level. A tabulated summary of these soil testing results is provided in Appendix C.

Hexavalent chromium concentrations at SB11 and SB15 exceed the *groundwater published level.* The hexavalent chromium concentrations at these two locations has not been confirmed, with repeat sampling and testing.

Investigation has found no detectable concentrations of VOCs or dissolved RCRA 8 metals in groundwater and no PAH concentrations in groundwater exceeding *groundwater published levels*.

5.0 OPINIONS AND RECOMMENDATIONS

Site investigation conducted in April 2024 confirmed the presence of lead in soil; identified lead contamination in surface and near surface soils across portions the site; and identified the presence of hexavalent chromium in groundwater. Based on lead concentrations in soil exceeding the proposed EPA residential criteria and representing an exposure risk; remediation would be required before residential development.

SES recommends at a minimum conducting additional investigation to finish defining the extent of lead in soil and further assessment of groundwater conditions.

SITE INVESTIGATION REPORT

FIGURES

Former Stout Battery
3005 West 8th Street
Muncie, Delaware County, Indiana 47302
BFD #4060050
USEPA CERCLA Section 128(a) Funding
SES Project No.: 2024-0085

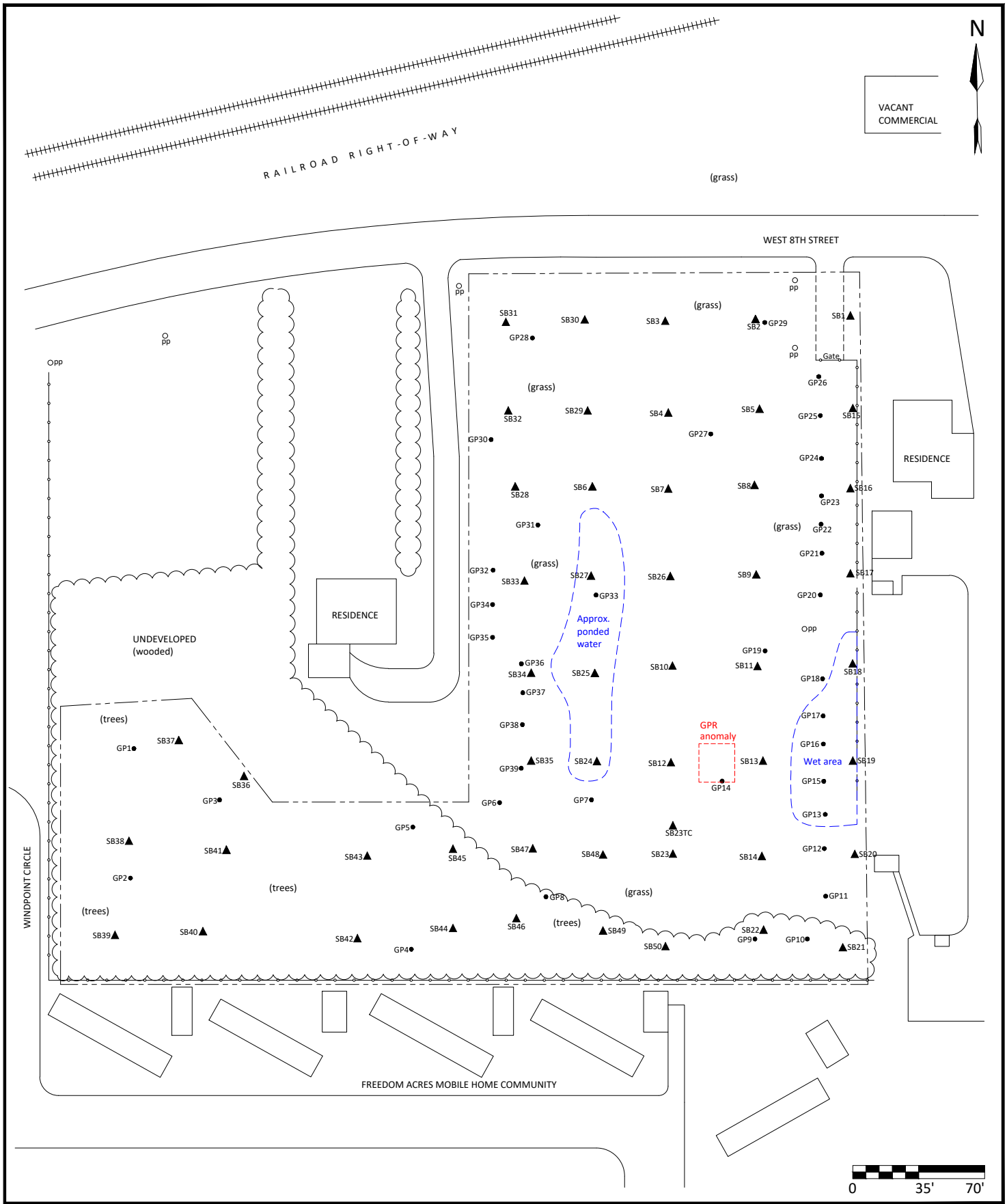
Muncie West, Indiana 7.5 Minute Quadrangle Map
(Published 2013)

CONTOUR INTERVAL 10 FEET
Site Boundaries Shown are Approximate

Topographic Map **Figure 1**

Stout Battery
3005 West 8th Street
Muncie, Delaware County, Indiana
SES Project No.: 2024-0085

SES



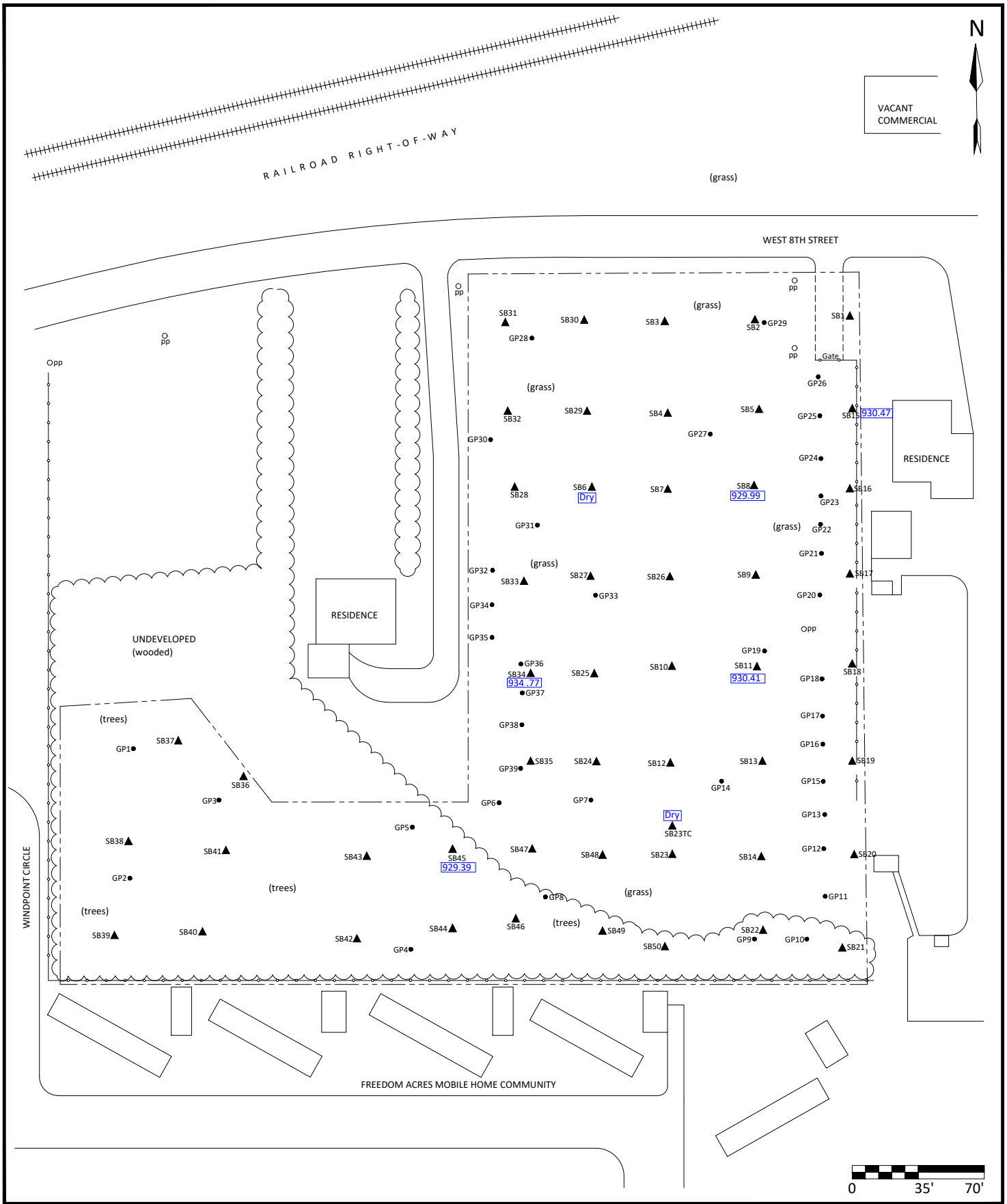
TITLE
SITE MAP

LOCATION
Former Stout Battery
3005 West 8th Street
Muncie, Indiana

LEGEND
APPROX SITE PARCEL BOUNDARY
PP POWER POLE
SOIL BORING - June 2022
SOIL BORING - April 2024

PROJECT	20240085	
SCALE	1"= 70'	DATE 6/10/24
DRAWN	dn	CHECKED gh
FILE	20240085	FIGURE 2

SES



TITLE

GROUNDWATER ELEVATIONS 25-Apr-24

LOCATION

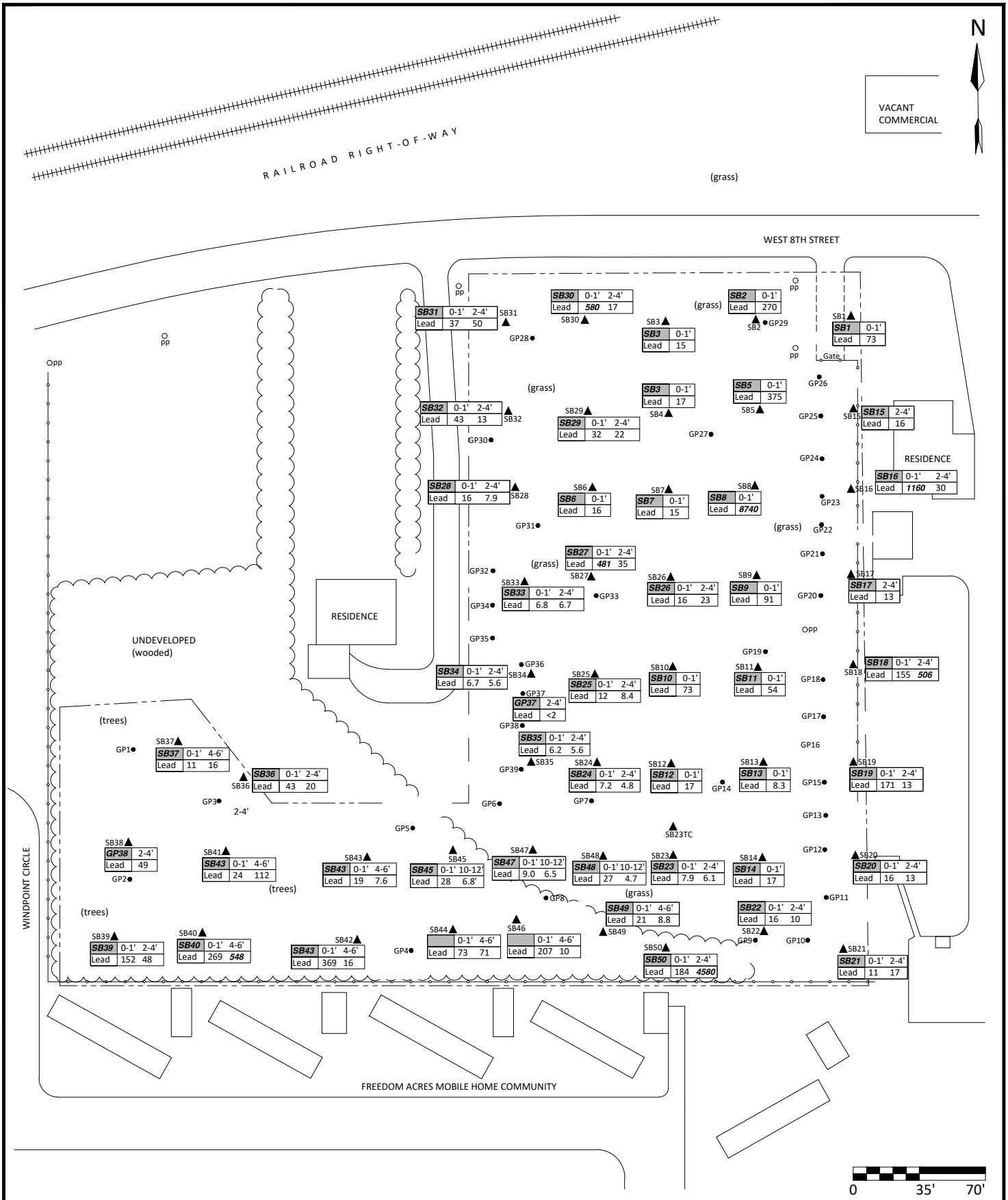
Former Stout Battery
3005 West 8th Street
Muncie, Indiana

LEGEND

APPROX SITE PARCEL BOUNDARY
pp POWER POLE
SOIL BORING - June 2022
SOIL BORING - April 2024
929.39 GROUNDWATER ELEV. (msl)

PROJECT	20240085
SCALE	1"= 70'
DATE	6/10/24
DRAWN	dn
CHECKED	gh
FILE	20240085
FIGURE	3

SES



TITLE

SOIL LEAD CONCENTRATIONS
2024 SAMPLING

LOCATION

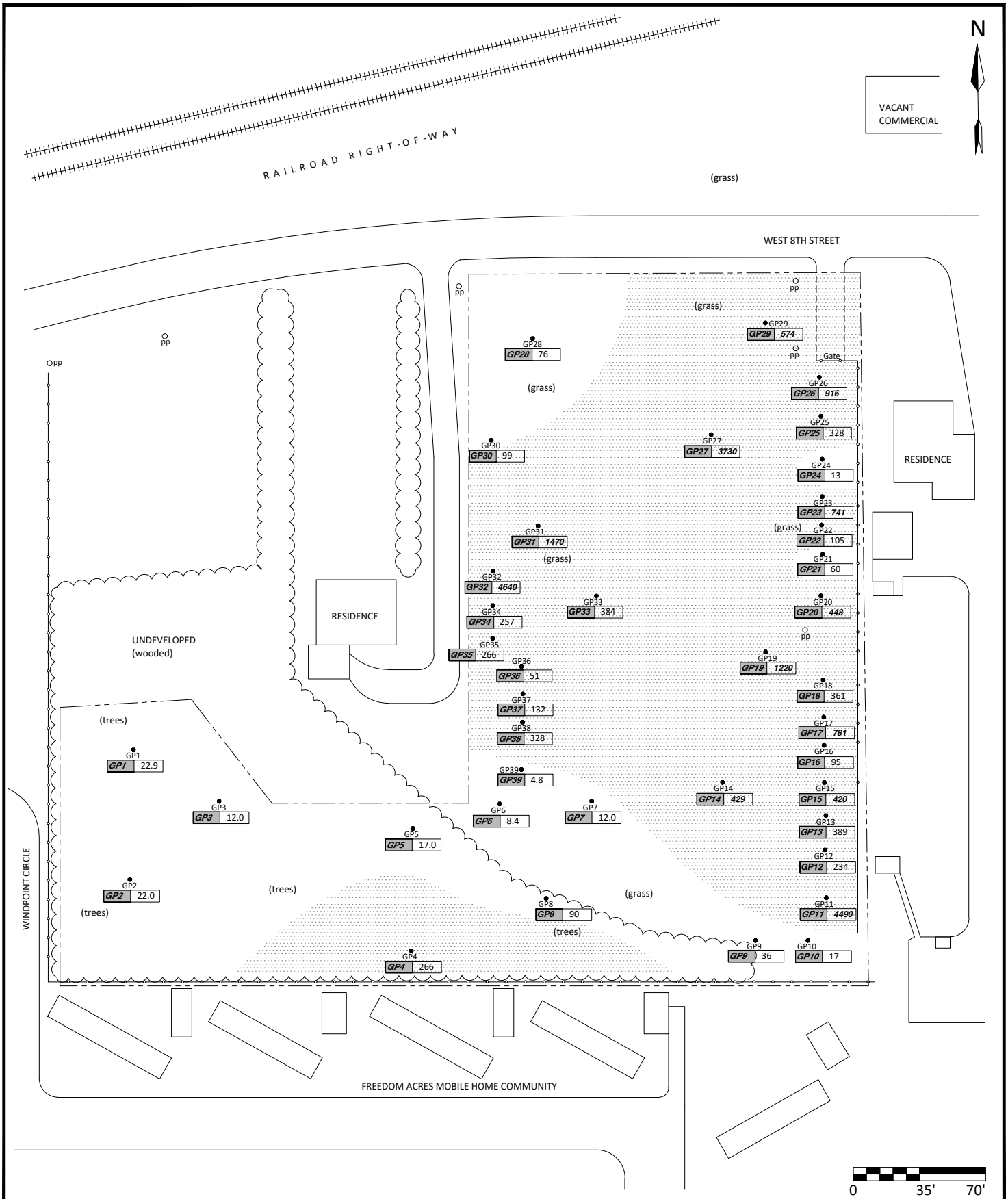
Former Stout Battery
3005 West 8th Street
Muncie, Indiana

LEGEND

APPROX SITE PARCEL BOUNDARY
pp POWER POLE
SOIL BORING - June 2022
SOIL BORING - April 2024

PROJECT	20240085
SCALE	1"= 70'
DATE	5/28/24
DRAWN	dn
CHECKED	gh
FILE	20240085
FIGURE	

SES



TITLE

SOIL LEAD CONCENTRATIONS 0-0.5'

LOCATION

Former Stout Battery
3005 West 8th Street
Muncie, Indiana

LEGEND

APPROX SITE PARCEL BOUNDARY

PP POWER POLE

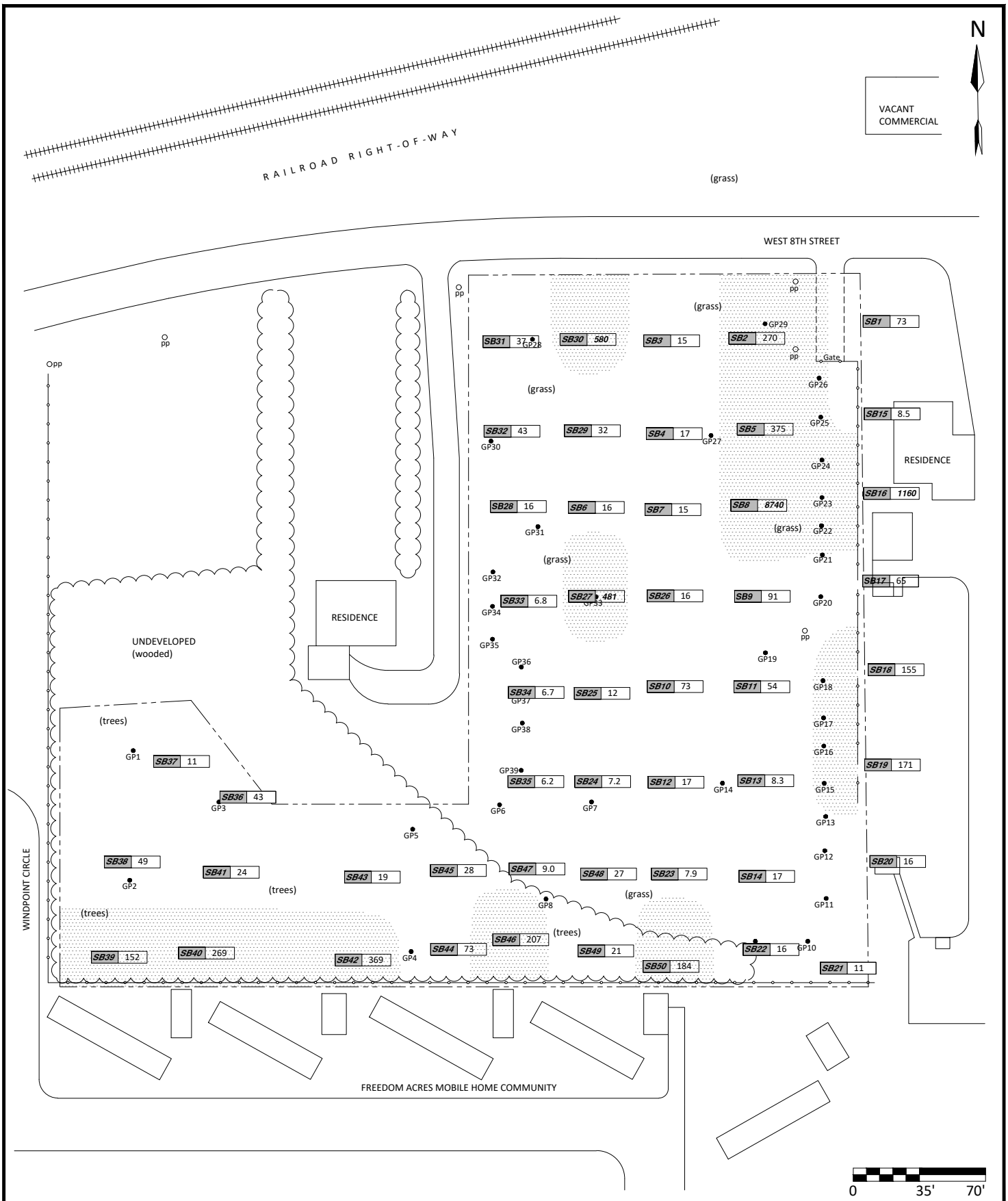
SOIL BORING - June 2022

LEAD CONCENTRATION CONCERN AREA

NOTE: Concentrations reported in mg/kg (ppm)

PROJECT	
20240085	
SCALE: 1"= 70'	DATE: 5/16/24
DRAWN: dn	CHECKED: gh
FILE: 20240085	FIGURE: 5

SES



TITLE

SOIL LEAD CONCENTRATIONS 0-1.0'

LOCATION

Former Stout Battery
3005 West 8th Street
Muncie, Indiana

LEGEND

APPROX SITE PARCEL BOUNDARY

pp POWER POLE

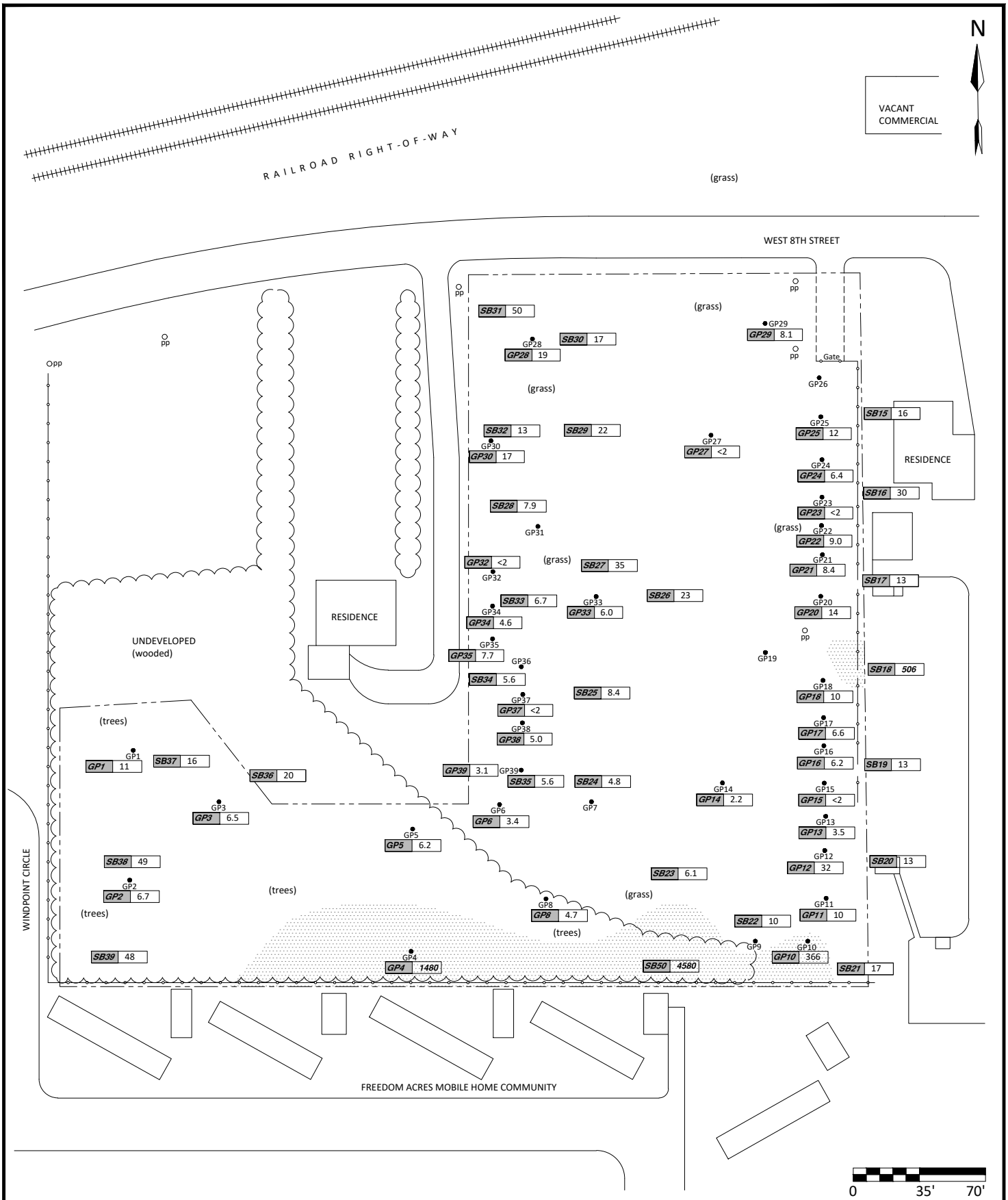
SOIL BORING - June 2022

LEAD CONCENTRATION CONCERN AREA

NOTE: Concentrations reported in mg/kg (ppm)

PROJECT	20240085
SCALE	1"= 70'
DATE	5/16/24
DRAWN	dn
CHECKED	gh
FILE	20240085
FIGURE	6

SES



TITLE

SOIL LEAD CONCENTRATIONS 2.0-4.0'

LOCATION

Former Stout Battery
3005 West 8th Street
Muncie, Indiana

LEGEND

APPROX SITE PARCEL BOUNDARY

pp POWER POLE

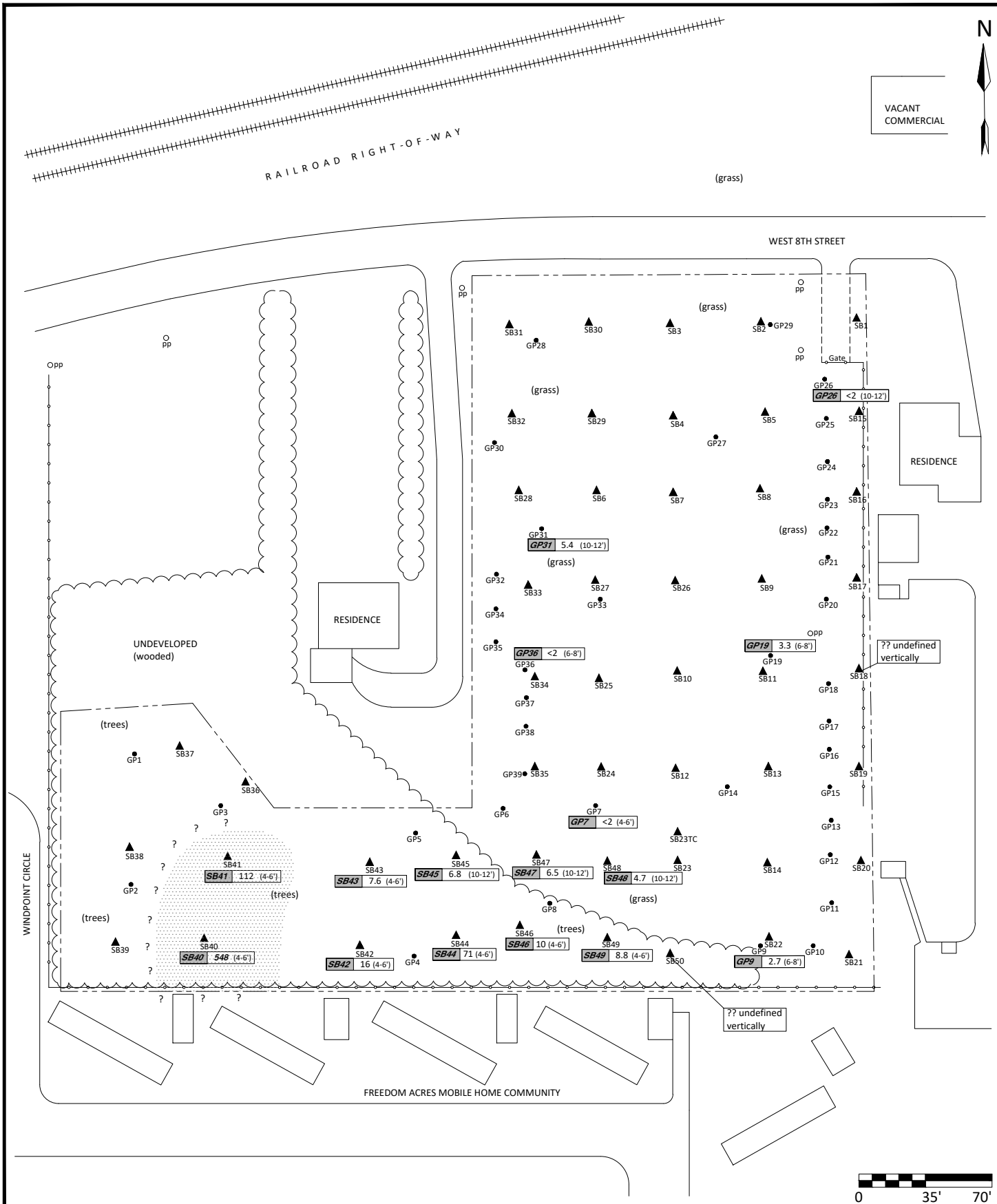
SOIL BORING - June 2022

LEAD CONCENTRATION CONCERN AREA

NOTE: Concentrations reported in mg/kg (ppm)

PROJECT	20240085
SCALE: 1"= 70'	DATE: 5/16/24
DRAWN: dn	CHECKED: gh
FILE: 20240085	FIGURE: 7

SES



TITLE

SOIL LEAD CONCENTRATIONS 4.0-12.0'

LOCATION

Former Stout Battery
3005 West 8th Street
Muncie, Indiana

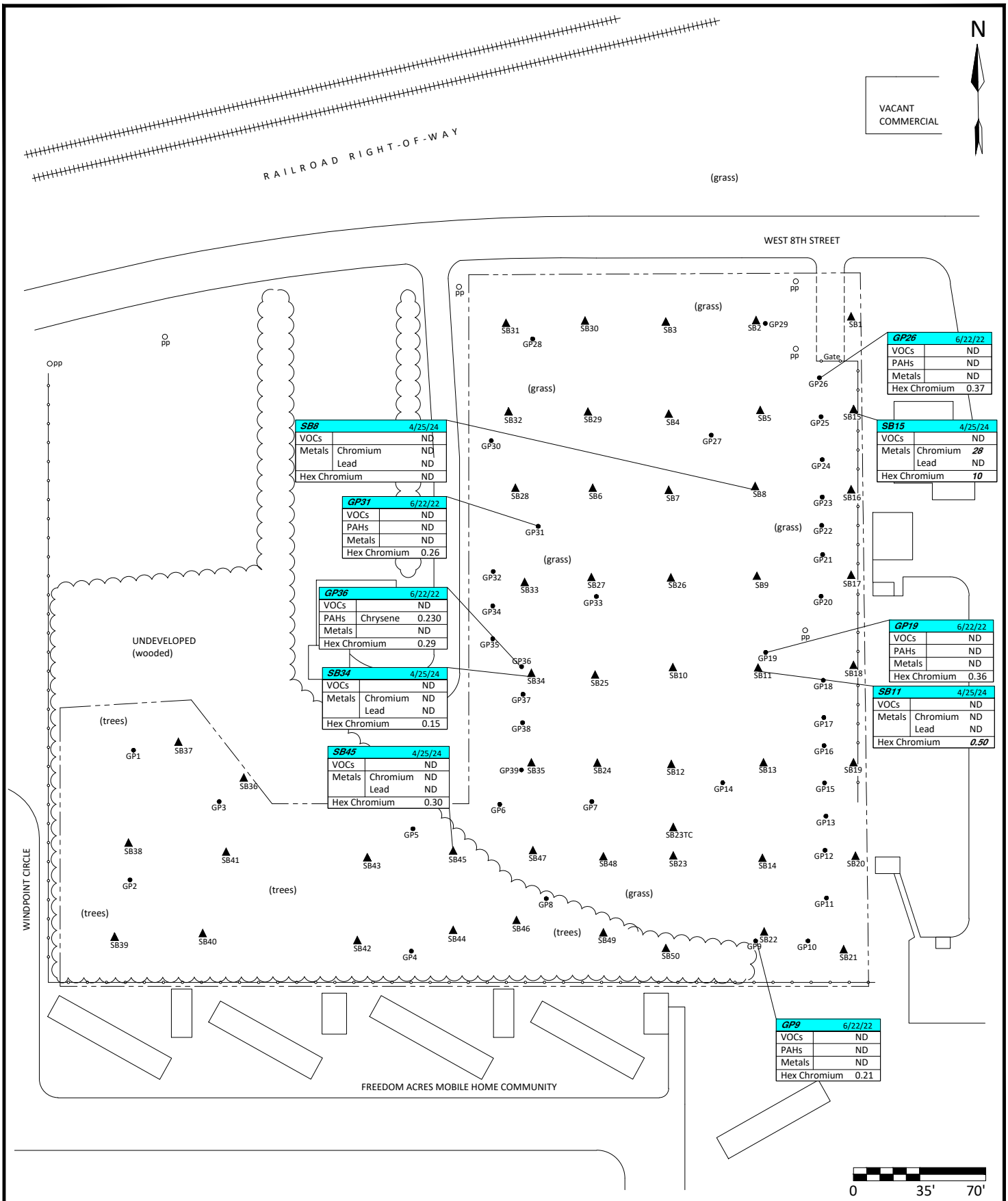
LEGEND

- APPROX SITE PARCEL BOUNDARY
- pp POWER POLE
- SOIL BORING - June 2022
- SOIL BORING - April 2024
- LEAD CONCENTRATION CONCERN AREA

NOTE: Concentrations reported in mg/kg (ppm)

PROJECT	20240085
SCALE	1"= 70'
DATE	5/16/24
DRAWN	dn
CHECKED	gh
FILE	20240085
FIGURE	8

SES



TITLE

GROUNDWATER TESTING RESULTS

LOCATION

Former Stout Battery
3005 West 8th Street
Muncie, Indiana

LEGEND

APPROX SITE PARCEL BOUNDARY
pp POWER POLE
SOIL BORING - June 2022
SOIL BORING - April 2024

NOTES: 1. Concentrations reproted in ug/L (ppb)
2. Metal concentrations as dissovled

PROJECT	20240085
SCALE	1"= 70'
DATE	5/16/24
DRAWN	dn
CHECKED	gh
FILE	20240085
FIGURE	9

SES

SITE INVESTIGATION REPORT

APPENDIX A. SOIL BORING LOGS

Former Stout Battery
3005 West 8th Street
Muncie, Delaware County, Indiana 47302
BFD #4060050
USEPA CERCLA Section 128(a) Funding
SES Project No.: 2024-0085

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-1

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SES Environmental
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-1
	GP 0-2	Lead	24		Dry, CLAY and GRAVEL, loose, trace sand	1.3			GC-SC	
2					End of Boring					
5										
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
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Phone: (260)497-7645
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Boring/Well Number: SB-2

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-2
	GP 0-2	Lead	24		Brown, CLAY, moist, stiff, trace gravel	0.4			GC	
					-2 End of Boring					
5										
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-3

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-3
	GP 0-2	Lead	12		Brown, moist, CLAY with sand, high organics, loose	0.3			CL/SC	
					-2 End of Boring					
5										
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-4

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-4
	GP 0-2	Lead	12		Brown, CLAY, moist, stiff, trace gravel	0.9			GC	
-2					End of Boring					
5										
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
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Boring/Well Number: SB-5

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-5
	GP 0-2	Lead	18		Brown, CLAY, very moist, trace sand, high organics	0.7			CL/SC	
2					End of Boring					
5										
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
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Phone: (260)497-7645
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Boring/Well Number: SB-6

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling: 18'
▼ At End of Drilling: 16'

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-6
	GP 0-2	Lead	20		Brown, CLAY, moist, stiff, trace gravel	0.1				
	GP 2-4		20			0.7				
5	GP 4-6		20			0.8			GC	
	GP 6-8		20			0.7				
	GP 8-10		18		-8 Brown, CLAY with gravel, moist, stiff, some sand.	0.7				
10	GP 10-12		18			0.7				
	GP 12-14		24			2.2				
15	GP 14-16		24		Grey, CLAY with gravel, moist, stiff, some sand	1.5				
	GP 16-18		20		▼	1.1			CL/SC	
	GP 18-20		20		▽ Brown, CLAY with gravel, stiff, some sand, saturated	1.0				
20	GP 20-22		20			0.7				
	GP 22-24		20			0.9				
25					-24 End of Boring					
30										

Notes: Drilled to 24' to install well. Well collapsed at 16' but water was peresnt at that depth. Backfilled with sand at screened interval, then bentonite. Well installed at 16'. 10' screen.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
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Boring/Well Number: SB-7

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-7
	GP 0-2	Lead	12		Brown, CLAY, trace gravel, moist, stiff	0.5			GC	
					-2 End of Boring					
5										
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
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Phone: (260)497-7645
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Boring/Well Number: SB-8

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling: 23'

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	USCS Classification
	GP 0-2	Lead	18		Dark brown, CLAY. moist, stiff, trace sand	1.3	CL/SC
	GP 2-4		18			1.4	
5	GP 4-6		4		Brown, SANDY-CLAY, moist, stiff	0.5	CL/SC
	GP 6-8		4			0.8	
	GP 8-10		24		-8 Brown, CLAY, stiff, moist, trace gravel	1.3	GC
10	GP 10-12		24			0.6	
	GP 12-14		24		-12 Light brown, SANDY-CLAY, moist, loose, trace gravel	1.0	CL/SC
15	GP 14-16		24		-15	1.3	CL
	GP 16-18		24		Brown CLAY, moist, stiff, trace sand and gravel -16 Brown, stiff, CLAY with GRAVEL, some sand, moist	2.7	GC
20	GP 18-20		24			1.2	
	GP 20-22		24			1.3	
	GP 22-24		24		▼ Brown, SANDY-CLAY, saturated. stiff, with gravel	1.3	
25					-24 End of Boring		
30							

PID (ppmv) Profile: 0 – 500

Well Construction SB-8

Notes: Well installed to 24' for groundwater sampling. 10' screen.
0-12' = Bentonite
12-24' = Sand
14-24' = Screened interval

SES Environmental
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Phone: (260)497-7645
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Boring/Well Number: SB-9

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-9
	GP 0-2	Lead	18		Dark brown, CLAY, moist, stiff, loose, trace gravel	0.5			CL	
					-2 End of Boring					
5										
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
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Phone: (260)497-7645
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Boring/Well Number: SB-10

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-10
	GP 0-2	Lead	12		Brown, stiff, CLAY, very moist, trace gravel	0.4			CL	
-2					End of Boring					
5										
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
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Phone: (260)497-7645
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Boring/Well Number: SB-11

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling: 20
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	Graphic	USCS Classification	Well Construction SB-11
	GP 0-2	Lead	10		Brown, CLAY, moist, with gravel, trace sand	1.1		GC	
	GP 2-4		10			2.2			
5	GP 4-6		18		-4 Brown, SANDY-CLAY, very moist, stiff	2.7		CL/SC	
	GP 6-8		18		-6 Brown, CLAY, stiff, moist, trace gravel	3.0		CL	
10	GP 8-10		24			2.1			
	GP 10-12		24		-10 Brown, loose, SAND / GRAVEL / CLAY mix	2.6		SC/GC	
	GP 12-14		18			2.3			
15	GP 14-16		18			2.8			
	GP 16-18		24			3.1			
20	GP 18-20		24			1.3			
	GP 20-22		18		-20 ▽ Brown, SAND, saturated, dense	1.1		SP	
					-21 Brown, CLAY, very moist, stiff, some plasticity			CL	
25					-22 End of Boring				
30									

Notes: Drilled to 22' to install well. Well collapsed at 20' but water was peresnt at that depth. Backfilled with sand at screened interval, then bentonite. Well installed at 20'. 10' screen.

SES Environmental
3807 Transportation Dr.
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Phone: (260)497-7645
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Boring/Well Number: SB-12

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-12
	GP 0-2	Lead	18		Brown, SANDY-CLAY, moist, stiff	0.2			CL/SC	
					-2 End of Boring					
5										
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
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Boring/Well Number: SB-13

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-13
	GP 0-2	Lead	20		Dark brown, CLAY, very moist, trace sand / gravel	0.4			cl	
					-2 End of Boring					
5										
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
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Phone: (260)497-7645
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Boring/Well Number: SB-14

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-14
	GP 0-2	Lead	18		Dark brown, stiff, moist, CLAY, trace sand / gravel	0.4			cl	
2					End of Boring					
5										
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
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Phone: (260)497-7645
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Boring/Well Number: SB-15

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	USCS Classification
	GP 0-2	Lead	18		6" concrete surface -0.5	1.2	fill
					Brown, moist, CLAY, trace sand		
	GP 2-4	Lead	18			0.8	
5	GP 4-6		8			1.1	CL
	GP 6-8		8			1.2	
	GP 8-10		12			1.0	
10					-10		
	GP 10-12		12		Brown, CLAY, moist, with gravel	0.6	GC
	GP 12-14		12		-12 Brown, SAND and GRAVEL, dense, moist	2.4	
15	GP 14-16		18			2.3	
	GP 16-18		18		Brown, SAND and GRAVEL, dense, very moist	1.8	GP-SP
	GP 18-20		14			2.3	
20							
	GP 20-22		14		Brown, SAND, trace gravel, very moist, dense	1.5	SP
	GP 22-24		12			1.6	
					-24		
25					End of Boring		
30							

PID (ppmv) Profile: 0 – 500

Well Construction SB-15

Notes: Refusal at 11' two times on 4/22/24. Was able to get down to 24ft on 4/23/24.
Well installed at 24'
10' screen
0' - 12' = Bentonite
12' - 24' = Sand

SES Environmental
3807 Transportation Dr.
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Phone: (260)497-7645
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Boring/Well Number: SB-16

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-16
	GP 0-2	Lead	14		Dark brown, CLAY, moist, stiff, trace and / gravel	0.4			CL	
	GP 2-4	Lead	14		Brown, CLAY, moist, trace and / gravel	0.3				
5					-4 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
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Phone: (260)497-7645
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Boring/Well Number: SB-17

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-17
	GP 0-2	Lead	18		Brown, CLAY with gravel, moist, stiff	0.7			GC	
	GP 2-4	Lead	18			0.8				
5					-4 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
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Phone: (260)497-7645
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Boring/Well Number: SB-18

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-18
	GP 0-2	Lead	18		Dark brown, CLAY, moist, stiff, trace gravel, high organics	1.0			GC	
	GP 2-4	Lead	18			0.9				
5					-4 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

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Phone: (260)497-7645
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Boring/Well Number: SB-19

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-19
	GP 0-2	Lead	14		Dark brown, CLAY with gravel, moist, stiff, high organics, trace sand	0.5			GC	
	GP 2-4	Lead	14			0.6				
					-4					
5					End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-20

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-20
	GP 0-2	Lead	24		Brown, CLAY, stiff, moist, trace sand	0.4			CL	
	GP 2-4	Lead	24			0.3				
5					-4 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-21

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Hand Auger
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-21
	HA 0-2	Lead	12		Brown, CLAY, trace sand, moist, loose	0.4			CL	
	HA 2-4	Lead	12			0.5				
5					-4 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-22

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-22
	GP 0-2	Lead	18		Brown, CLAY, moist, stiff, trace and / gravel	0.4			CL	
	GP 2-4	Lead	18			0.8				
5					-4 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-23

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-23
	GP 0-2	Lead Lead	12		Brown, stiff, CLAY, moist, trace sand	0.4			CL	
	GP 2-4		12			0.9				
5	GP 4-6		18		-4 Brown, CLAY, stiff, moist, trace gravel	1.0			CL	
	GP 6-8		18			1.3				
10	GP 8-10		14			1.1				
	GP 10-12		14		-10 Brown, GRAVEL, with sand, very dense, moist	1.5			GP-SP	
15					-12.5 End of Boring					
20										
25										
30										

Notes: Refusal at 11', two times on 4/22/24. Refusal at 12.5' on 4/23/24. Set temp well for groundwater monitoring.
0-0.5' = bentonite
0.5-12.5' = sand
10' screen

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-24

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/23 Completed: 4/22/23

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-24
	GP 0-2	Lead	12		Brown, CLAY, very moist, stiff, with sand, slight plasticity	1.1			CL	
	GP 2-4	Lead	12			0.5				
-4					End of Boring					
5										
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: **SB-25**

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-25
	GP 0-2	Lead	12		Brown, CLAY, very moist, trace gravel, stiff	0.3			CL	
	GP 2-4	Lead	12			0.4				
5					-4 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-26

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-26
	GP 0-2	Lead	18		Brown, CLAY, moist, stiff, trace gravel	0.5			CL	
	GP 2-4	Lead	18			0.4				
					-4					
5					End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-27

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-27
	GP 0-2	Lead	12		Brown, CLAY, moist, stiff, trace gravel	0.1			CL	
	GP 2-4	Lead	12			0.2				
					-4					
5					End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-28

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/23/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-28
	GP 0-2	Lead	10		Brown, CLAY, stiff, moist, trace gravel	0.1			CL	
	GP 2-4	Lead	10			0.1				
5					-4 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-29

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-29
	GP 0-2	Lead	18		Brown, CLAY, moist, stiff, trace gravel	0.41			CL	
	GP 2-4	Lead	18			0.4				
5					-4 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-30

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-30
	GP 0-2	Lead	12		Brown, CLAY, stiff, moist, trace gravel	0.2			CL	
	GP 2-4	Lead	12			0.2				
5					-4 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-31

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-31
	GP 0-2	Lead	18		Dark brown, CLAY, moist, stiff, trace gravel, high organics	0.6			CL	
	GP 2-4	Lead	18			1.0				
5					-4 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-32

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-32
	GP 0-2	Lead	12		Brown, CLAY, moist, stiff, trace gravel, high organics	0.6			CL	
	GP 2-4	Lead	12			0.7				
5					-4 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-33

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/23/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-33
	GP 0-2	Lead	18		Brown, CLAY, moist, stiff, trace gravel	0.4			CL	
-2	GP 2-4	Lead	18		Brown, CLAY, moist, stiff, trace gravel / silt	0.3			CL	
-4					End of Boring					
5										
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-34

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/23/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling: 7'

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	Graphic	USCS Classification	Well Construction SB-34
	GP 0-2	Lead	12		Brown, CLAY, moist, stiff, trace gravel	0.3		CL	
	GP 2-4	Lead	12			0.2			
5	GP 4-6		10		-4 Brown, CLAY, stiff, with gravel, trace sand	0.2		GC	
	GP 6-8		10		▼	0.7			
10	GP 8-10		24		-8 Brown, moist, CLAY and GRAVEL, very stiff	0.4			
	GP 10-12		24			1.6			
	GP 12-14		12		Brown, CLAY and GRAVEL, stiff, very moist	0.8		GC	
15	GP 14-16		12			0.6			
	GP 16-17		12			1.2			
					-17 End of Boring				
20									
25									
30									

Notes: Refusal at 17ft but water was present. Installed well @ 17ft.
0' - 5' = bentonite
5' - 17' = sand
7' - 17' = screened interval

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-35

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/23/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-35
	GP 0-2	Lead	12		Brown, stiff, moist, CLAY, trace gravel, trace sand	0.4			CL	
-2	GP 2-4	Lead	12		Brown, stiff, moist, CLAY, some sand, trace gravel	0.7			CL/SC	
-4					End of Boring					
5										
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-36

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Hand Auger
Logged By: Tate Robinson
Date Started: 4/23/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-36
	HA 0-2		6		Brown, CLAY, stiff, moist, trace gravel	0.0			CL	
	HA 2-4		6							
5					-4 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-37

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Hand Auger
Logged By: Tate Robinson
Date Started: 4/23/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-37
	HA 0-2	Lead	6		Brown, CLAY, moist, stiff, trace sand	0.0			CL	
	HA 2-4	Lead	6			0.0				
5					-4 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-38

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Hand Auger
Logged By: Tate Robinson
Date Started: 4/23/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-38
	HA 0-2	Lead	6		Brown, CLAY, moist, stiff	0.0			CL	
	HA 2-4	Lead	6			0.0				
5					-4 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-39

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Hand Auger
Logged By: Tate Robinson
Date Started: 4/23/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-39
	HA 0-2	Lead	6		Brown, CLAY, moist, stiff, trace gravel, trace sand	0.0			CL	
	HA 2-4	Lead	6			0.0				
5					-4 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-40

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Hand Auger
Logged By: Tate Robinson
Date Started: 4/23/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-40
	HA 0-2	Lead	6		Brown, CLAY, stiff, moist, trace sand	0.0				
	HA 2-4		6			0.0			CL	
5	HA 4-6	Lead	6		Light brown, CLAY, stiff, moist, trace sand	0.0				
					-6 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-41

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Hand Auger
Logged By: Tate Robinson
Date Started: 4/23/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-41
	HA 0-2	Lead	6		Brown, CLAY, stiff, moist, trace gravel	0.0				
	HA 2-4		6			0.0			CL	
5	HA 4-6	Lead	6			0.0				
					-6 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-42

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Hand Auger
Logged By: Tate Robinson
Date Started: 4/23/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-42
	HA 0-2	Lead	6		Brown, CLAY, moist, stiff	0.0				
	HA 2-4		6			0.0			CL	
5	HA 4-6	Lead	6			0.0				
					-6 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-43

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Hand Auger
Logged By: Tate Robinson
Date Started: 4/23/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0 500	Graphic	USCS Classification	Well Construction SB-43
	HA 0-2	Lead	6		Brown, CLAY, moist, stiff, trace sand	0.0				
	HA 2-4		6			0.0			CL	
5	HA 4-6	Lead	6			0.0				
					-6 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-44

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Hand Auger
Logged By: Tate Robinson
Date Started: 4/23/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-44
	HA 0-2	Lead	6		Brown, CLAY, moist, stiff, trace sand, trace gravel	0.0			CL	
	HA 2-4		6			0.0				
5	HA 4-6	Lead	6		-4 Brown, SAND, moist, dense, trace gravel	0.0			SP	
					-6 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-45

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/23/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	Graphic	USCS Classification	Well Construction SB-45
	GP 0-2	Lead	18		Brown, CLAY, stiff, moist, trace gravel	0.3		CL	
					-2				
	GP 2-4		18		Brown, CLAY, stiff, moist, trace gravel, trace silt	0.3			
5	GP 4-6		20			0.7		CL	
	GP 6-8		20		-7	0.7			
					Brown, SAND, dense, moist, fine			SP/SW	
	GP 8-10		20		-8 Brown, CLAY, stiff, moist, some gravel	0.9		GC	
10					-10				
	GP 10-12	Lead	20		Brown, CLAY and GRAVEL, very stiff, moist, some sand	0.6		GC-SC	
					-12				
	GP 12-14		18		Brown, SAND and GRAVEL, moist, stiff	2.1		GP-SP	
15	GP 14-16		18			1.6			
					-16				
	GP 16-18		16		Brown, SAND, moist, dense, trace gravel	1.3			
20	GP 18-20		16			1.3		SP	
	GP 20-22		20		Brown, SAND, dense, very moist, trace gravel	2.4			
	GP 22-24		20			2.1			
					-24				
25					End of Boring				
30									

Notes: Drilled to 24' to install well. Backfilled with sand at screened interval, then bentonite to surface. Well installed at 24' with a 10' screen.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-46

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Hand Auger
Logged By: Tate Robinson
Date Started: 4/23/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-46
	HA 0-2	Lead	6		Brown, CLAY, stiff, moist, trace sand	0.0			CL	
	HA 2-4		6			0.0				
5	HA 4-6	Lead	6		-4 Brown, SAND and CLAY, stiff, moist	0.0			CL/SC	
					-6 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-47

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/23/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-47
	GP 0-2	Lead	14		Brown, CLAY, moist, trace gravel	1.0			CL	
	GP 2-4		14			0.8				
5	GP 4-6		18		-4 Brown, CLAY, stiff, moist, some gravel	1.0			GC	
	GP 6-8		18			1.4				
10	GP 8-10		24			1.4				
	GP 10-12	Lead	24			1.5				
15					-12 End of Boring					
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-48

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Geoprobe 7822 DT
Logged By: Tate Robinson
Date Started: 4/22/24 Completed: 4/22/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-48
	GP 0-2	Lead	12		Brown, CLAY, stiff, very moist, trace gravel	1.0				
	GP 2-4		12			0.7				
5	GP 4-6		18		Black, CLAY, stiff, moist, trace gravel, petroleum odor	111.3			CL	
	GP 6-8		18		Brown, CLAY, stiff, moist, trace gravel	8.0				
	GP 8-10		24		-8 Brown, CLAY with gravel, moist, stiff	5.3			GC	
10	GP 10-12	Lead	24			4.2				
					-12 End of Boring					
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-49

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Hand Auger
Logged By: Tate Robinson
Date Started: 4/23/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-49
	HA 0-2	Lead	6		Brown, CLAY, stiff, moist, trace gravel	0.0			CL	
	HA 2-4		6			0.0				
5	HA 4-6	Lead	6		Brown, CLAY, stiff, moist, trace silt, trace gravel -4	0.0			CL	
					-6 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SES Environmental
3807 Transportation Dr.
Fort Wayne, IN 46818
Phone: (260)497-7645
Fax: (260)497-7646

Boring/Well Number: SB-50

Client: IFA
Project Name: Stout Battery
Project Number: 2024-0085
Project Location: 3005 West 8th street, Muncie, IN

Drilling Contractor: SCS Contracting
Driller Name: Jake Chapman
Driller Number: 4040
Drilling Method: Hand Auger
Logged By: Tate Robinson
Date Started: 4/23/24 Completed: 4/23/24

Ground Elevation:
Top of Casing Elevation:
GPS Coordinates:
Groundwater Level:
▽ At Time of Drilling:
▼ At End of Drilling:

Depth (feet)	Sample Type and Number	Lab Tests	Recovery (inches)	Blow Count	Soil Description	PID (ppmv) Value	PID (ppmv) Profile 0–500	Graphic	USCS Classification	Well Construction SB-50
	HA 0-2	Lead	6		Brown, CLAY, moist, stiff, trace sand	0.0				
	HA 2-4		6			0.0			CL	
5	HA 4-6	Lead	6			0.0				
					-6 End of Boring					
10										
15										
20										
25										
30										

Notes: For purpose of soil sampling only. Backfilled with bentonite. No well installed.

SITE INVESTIGATION REPORT

APPENDIX B. DATA ASSESSMENT AND LABORATORY REPORTS

Former Stout Battery
3005 West 8th Street
Muncie, Delaware County, Indiana 47302
BFD #4060050
USEPA CERCLA Section 128(a) Funding
SES Project No.: 2024-0085

DATA ASSESSMENT REPORT – SITE INVESTIGATION REPORT

Former Stout Battery
3005 West 8th Street
Muncie, Delaware County, Indiana 47302
BFD #4060050
USEPA CERCLA Section 128(a) Funding
SES Project No.: 2024-0085

Laboratory Analysis performed by:

Envision Laboratories Indianapolis, Indiana
Envision Project Nos.: 2024-847, and 2024-864

Data Assessment performed by:

SES Environmental
Project 2024-0086

June 12, 2024

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EXECUTIVE SUMMARY

SES Environmental (SES) prepared a Quality Assurance Project Plan (QAPP) for USEPA 128(a) projects. In the QAPP, Alana Christlieb was designated as the Quality Assurance Manager. Ms. Christlieb completed this Data Assessment Report (DAR) for soil and groundwater samples submitted for analysis, for the vacant lot (aka former Stout Battery) located at 3005 West 8th Street in Muncie, Delaware County, Indiana. The samples were analyzed by Envision Laboratories (Envision) of Indianapolis, Indiana. The following laboratory reports were generated: Envision Project Nos.: 2024-847, and 2024-864.

In general, the Chain-of-Custody documentation was accurately completed and included appropriate sample receiving information. The Chain-of-Custody contained a few minor deviations from protocol, which did not affect the usability of the data (see Section 2.0). The MDLs and RLs were acceptable and quantitation limits were found to be acceptable for the data's intended use (comparison to the IDEM's R2 *published human health levels*). Method blanks were prepared and analyzed as required by the referenced method. No target compounds were detected above their respective RLs in any of the method blanks. MS/MSD samples and LCSs were prepared and analyzed as required by the referenced method(s). The data was properly qualified/annotated and referenced in the laboratory Quality Control Data summary and no additional data qualification is required. The RPDs for the field duplicate analytes were generally found to be in compliance with the QAPP objectives.

Based on this DAR, the results for the analyses of the samples reported in data set (Envision Numbers 2024-847, and 2024-864) was determined to be acceptable for their intended use within the limitations described above.

1.0 INTRODUCTION

Soil samples were analyzed for lead and groundwater samples were analyzed for volatile organic compounds (VOCs), lead, chromium, and hexavalent chromium to support site investigation at the vacant lot (aka former Stout Battery) located at 3005 West 8th Street in Muncie, Delaware County, Indiana (herein after referred to as the "site"). To the extent applicable, this data assessment was performed in accordance with the QAPP dated January 2024. The data assessment process is intended to evaluate data on a technical basis in addition to a method compliance basis. The data package as received from the laboratory includes sufficient raw data documentation to facilitate the assessment process and allow verification of all reported sample results. The review is based on the data provided by the laboratory and assumes that it is accurate, true, and complete. In addition, professional judgment was applied as necessary and appropriate. Unless a specific laboratory report is indicated, comments in this DAR apply to Envision reports 2024-847, and 2024-864. However, the sample identified as Drum was not evaluated herein, this sample was intended for waste profiling purposes, only.

Analysis performed included the following parameters:

Groundwater

- Volatile Organic Compounds (VOCs) by EPA Method 8260
- Total and Dissolved Chromium and Lead by EPA Method 6010
- Hexavalent Chromium by EPA Method 218.6

Soil

- Lead and TCLP Lead by EPA Method 6010
- Percent Moisture by EPA Method 1684

2.0 PRESERVATION, SAMPLE INTEGRITY AND QA/QC SAMPLES

The samples were received in good condition. The following observations were noted:

- Chain-of-custody documentation was utilized.
- In general, the chain-of-custody documentation was accurately completed and followed proper protocol with the exceptions listed below, which did not affect the usability of the data.
    - Percent moisture was not indicated on chain-of-custody forms. However, Envision analyzes and reports for percent moisture on all soil samples, regardless of whether it's specified on the chain-of-custody. Furthermore, comments on the chain-of-custody requested soil results in dry weight.
- The cooler temperatures were measured and were within acceptance limits.
- Ice was present in all coolers upon receipt.
- Custody Seals were utilized on the coolers and were intact upon arrival at the laboratory.
- The samples in all coolers arrived intact and no loss or breakage was noted.
- The QAPP field completeness goal of 90% for samples collected/analyzed was achieved.
- The samples contained in all the coolers were delivered within the respective sample holding

time(s).

- The samples contained in all coolers contained sufficient sample volume.
- The samples contained in all coolers utilized the correct containers.
- The sample labels in the coolers matched the Chain-of-Custody.
- The cooler(s) containing samples utilized in Envision Report No. 2024-847, and 2024-864 contained:
    - Eighty-nine (89) soil samples, which included four duplicates, and extra sample volume for MS/MSD;
    - Six (6) groundwater samples, which included one (1) duplicate, and extra sample volume for MS/MSD; and
    - Lab prepared trip blanks (one for groundwater, shipment)
- The QAPP field duplication rate (1:20) was observed.
- The QAPP MS/MSD rate (1:20) was observed for soil and groundwater samples.
- The sample designations were found to be appropriate and in general compliance with the QAPP. However, soil sample nomenclator was shortened to soil boring (SB) location (1-50), and depth interval (ex. 2-4).
- Equipment blank samples were not retained nor specified in the SAP but rather dedicated single use equipment were specified.

3.0 HOLDING TIMES, ANALYTICAL METHODS, METHOD DETECTION LIMITS (MDLS), REPORTING LIMITS (RLS), UNITS AND DATA QUALIFICATIONS UTILIZED

The laboratory analytical reports were acceptable for the intended use of the data. The following observations were noted:

- The samples were analyzed within the established holding times.
- The analytical methods utilized were appropriate.
- The analytical methods utilized were properly noted/cited.
- In general, the MDLs and RLs were acceptable and quantitation limits were found to be acceptable for the data's intended use (comparison to the IDEM Risk-based Closure Guide (R2) *published human health levels*).
- The units of measure were appropriate.
- Samples did not require data qualifiers, except for the reported values (for acrolein, 1122-TCA, and EDB) below the reporting limit but above the MDL. These values were flagged accordingly in the report.

4.0 BLANKS

Method blanks were prepared and analyzed as required by the referenced method. No target compounds were

detected above their respective RLs in any of the method blanks. A trip blank was included in Envision Report 2024-847, and 2024-864. Blank samples included a laboratory prepared trip blank. No target VOC compounds were detected above their respective RLs. Equipment blank samples were not retained nor specified in the SAP as dedicated single use equipment were specified.

Based on evaluation of laboratory data, trip blank results were acceptable, being below detection.

5.0 SURROGATE RECOVERY

Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis. Each sample is spiked with a known concentration of surrogate compound (s) prior to the preparation and analysis of the sample. Surrogate standards were included for EPA Method 8260.

- Surrogate recoveries for field and quality control samples were found to be inside their respective control limits.

Based on the information presented in the laboratory Quality Control Data summary, the surrogate recovery results were acceptable.

6.0 LABORATORY QUALITY CONTROL SAMPLES

6.1 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Matrix spike samples were prepared and analyzed as required by the referenced method. Extra sample volumes were obtained at SB2 (0-1'), SB25 (0-1'), SB38 (0-1') and SB46 (0-1') to evaluate soil matrix effects and extra groundwater sample volume was retained at SB34.

- For MS/MSD laboratory soil sample numbers 24-5167, 24-5202, 24-5246, the MS and/or MSD percent recoveries were found to be inside their respective control limits. However, sample 24-5229 was flagged and described as an analyte concentration in the sample spiked, MS/MSD recoveries are outside the established limits.

- For MS/MSD laboratory groundwater sample number 24-5377, the MS and/or MSD percent recoveries were found to be inside their respective control limits.

- Regarding Method 218.6: the matrix spike/ matrix spike duplicate (MS/MSD) recoveries for Batch 97890, Sample 810-102596-4 were outside the control limits of 90-110%. MS- 82% MSD- 98% recovery, RPD 16% (Limit 10%) for the analyte: Chromium. The laboratory indicates sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Based on the information presented in the laboratory Quality Control Data summary, the soil and groundwater MS/MSD results were acceptable, with two qualifying conditions.

6.2 Laboratory Control Sample (LCS)

An LCS was prepared and analyzed with each analytical batch as required by the referenced method.

- All spike percent recoveries were found to be within their respective limits or determined acceptable. LCS laboratory batch numbers are listed below.
  - 043024VS
  - 042525BS1
  - 042624icp/042624hg
  - 042924icp
  - 050124icp
  - 043024VW
  - 043024icp

Based on the information presented in the laboratory Quality Control Data summary, the LCS results were acceptable.

6.3 Duplicates

6.3.1 Laboratory Duplicates

Laboratory duplicates were performed on soil and groundwater samples. A blind duplicate groundwater sample was collected at SB45 and identified as SB45 FD. Four soil duplicate samples were collected as follows: Duplicate of SB5 (0-1') identified as SB 5 0-1 FD, Duplicate of SB24 (0-1') identified as SB 24 0-1 FD, Duplicate of SB37 (0-1') identified as SB 37 0-1 FD, and Duplicate of SB45 (0-1') identified as SB 45 0-1 FD.

6.3.2 Field Duplicates

Soil Field Duplicates

The duplication of soil samples is difficult due to their non-homogeneous nature. Due to this difficulty, RPDs of ±50 percent for soil sample field duplicates, are to be used as advisory limits for analytes detected in field duplicate samples at concentrations greater than or equal to five times its quantitation limit. The field duplicates were evaluated by calculating the percent difference. The field duplicate IDs were provided to the validator as shown in the table below. The elevated RPDs are due to the heterogeneity of soil. Only detected parameters are included in the summary.

- *table on next page* -

Field Duplicate Soil RPD Summary							
Sample ID	**Duplicate ID**	**Analyte**	**Sample Concentration (mg/kg)**	**RL (mg/kg)**	**Duplicate Concentration (mg/kg)**	**RL (mg/kg)**	**RPD (%)**
Envision Report No./Report 2024-847, and 2024-864							
SB5 (0-1')	SB 5 0-1 FD	Lead	375	2	324	3	14.6
		Moisture (%)	19	-	26	-	31.1
SB24 (0-1')	SB 24 0-1 FD	Lead	7.2	2	12	2	50
		Moisture (%)	10	-	12	-	18.2
SB37 (0-1')	SB 37 0-1 FD	Lead	11	2	13	2	16.7
		Moisture (%)	14	-	16	-	13.3
SB45 (0-1')	SB 45 0-1 FD	Lead	28	3	6.7	2	122.8
		Moisture (%)	34	-	10	-	109.1

Groundwater Field Duplicate

A duplicate groundwater sample was collected by filling additional laboratory containers at sample location SB45. Only detected parameters have calculated RPDs in the below summary.

Field Duplicate Groundwater RPD Summary							
Sample ID	**Duplicate ID**	**Analyte**	**Sample Concentration (ug/l)**	**RL (ug/l)**	**Duplicate Concentration (ug/l)**	**RL (ug/l)**	**RPD (%)**
Envision Report No. Report 2024-847, and 2024-864							
SB45	SB 45 FD	VOC	ND	-	ND	-	-
SB45	SB 45 FD	Total Chromium	12	10	ND	10	-
SB45	SB 45 FD	Total Lead	ND	10	ND	10	-
SB45	SB 45 FD	Hex. Chromium	0.30	0.020	0.26	0.020	14.3

ND: not detected

7.0 COMPOUND, IDENTIFICATION, QUANTITATION, AND REPORTED DETECTION LIMITS

The analytes reported were appropriate for the intended use of the data. Individual analyses were appropriately identified in the quality control samples and in the field samples. Sample-specific RLs were calculated and reported for the analyses.

In general, the MDLs and RLs were acceptable and quantitation limits were found to be acceptable for the data's intended use (comparison to the IDEM's R2 *published human health levels*).

8.0 DOCUMENTATION

Copies of the Chain-of-Custody records documenting all samples submitted to the laboratory were included in appropriate data packages. In general, the Chain-of-Custody documentation was accurately completed and included appropriate sample receiving information. Chain-of-Custody contained a few minor deviations from protocol, which did not affect the usability of the data (see Section 2.0).

9.0 OVERALL ASSESSMENT

In general, the Chain-of-Custody documentation was accurately completed and included appropriate sample receiving information. The Chain-of-Custody contained a few minor deviations from protocol, which did not affect the usability of the data (see Section 2.0). The MDLs and RLs were acceptable and quantitation limits were found to be acceptable for the data's intended use (comparison to the IDEM's R2 *published human health levels*). Method blanks were prepared and analyzed as required by the referenced method. No target compounds were detected above their respective RLs in any of the method blanks. MS/MSD samples and LCSs were prepared and analyzed as required by the referenced method(s). The data was properly qualified/annotated and referenced in the laboratory Quality Control Data summary and no additional data qualification is required. The RPDs for the field duplicate analytes were generally found to be in compliance with the QAPP objectives.

Based on this DAR, the results for the analyses of the samples reported in the data set (Envision Report 2024-847, and 2024-864) was determined to be acceptable for their intended use within the limitations described above.

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Mr. Glen Howard
SES Environmental
3807 Transportation Drive
Fort Wayne, IN 46818

May 8, 2024

ENVision Project Number: 2024-847 & 2024-864
Client Project Name: 2024-0085

Dear Mr. Howard,

Please find the attached analytical report for the samples received April 24 & 26, 2024. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

The reference for the preservation technique utilized by ENVision Laboratories for Volatile Organics in soil may be found on Table A.1 (p. 42) of Method 5035A: Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples, July 2002, Draft Revision 1.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

Cheryl A. Crum

Director of Project Management
ENVision Laboratories, Inc.

ENVision Laboratories, Inc.
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Fax: 317.351.8639
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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 1 0-1
Envision Sample Number: 24-5166
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 9:44
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**73**	2	

Analysis Date/Time: 4-26-24/11:42
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 96%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	4.0%		EPA 1684
Percent Solids	96.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	nr		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 2 0-1
Envision Sample Number: 24-5167
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 13:01
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**270**	2	

Analysis Date/Time: 4-26-24/11:51
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 81%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	19.0%		EPA 1684
Percent Solids	81.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 3 0-1
Envision Sample Number: 24-5168
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 13:04
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**15**	2	

Analysis Date/Time: 4-26-24/12:02
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 84%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	16.0%		EPA 1684
Percent Solids	84.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 4 0-1
Envision Sample Number: 24-5169
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 13:36
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**17**	2	

Analysis Date/Time: 4-26-24/12:06
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 81%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	19.0%		EPA 1684
Percent Solids	81.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 5 0-1
Envision Sample Number: 24-5170
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 12:30
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**375**	2	

Analysis Date/Time: 5-1-24/7:54
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 81%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	19.0%		EPA 1684
Percent Solids	81.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 5 0-1 FD
Envision Sample Number: 24-5171
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 12:30
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**324**	3	

Analysis Date/Time: 4-26-24/12:13
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 74%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	26.0%		EPA 1684
Percent Solids	74.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 6 0-1
Envision Sample Number: 24-5172
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 15:39
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**16**	2	

Analysis Date/Time: 4-26-24/12:17
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 81%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	19.0%		EPA 1684
Percent Solids	81.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 7 0-1
Envision Sample Number: 24-5173
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 13:40
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**15**	2	

Analysis Date/Time: 4-26-24/12:21
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 84%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	16.0%		EPA 1684
Percent Solids	84.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 8 0-1
Envision Sample Number: 24-5174
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 11:47
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**8,740**	2	

Analysis Date/Time: 4-26-24/12:24
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 87%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	13.0%		EPA 1684
Percent Solids	87.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: TCLP Metals 6010B ICP
Prep Method: EPA 1311

Client Sample ID:	SB 8 0-1	**Sample Collection Date/Time:**	4/22/24	11:47
Envision Sample Number:	24-5174	**Sample Received Date/Time:**	4/24/24	11:00
Sample Matrix:	soil			

Compounds	Sample Results (mg/L)	Reporting Limit (mg/L)	Flags
Lead, TCLP	**0.72**	0.01	

Analysis Date/Time:	5-2-24/16:33
Analyst Initials:	gjd
Date Digested:	4/30/2024
Initial Sample Volume:	50 mL
Final Volume:	50 mL
Analytical Batch:	050124icp

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 9 0-1
Envision Sample Number: 24-5175
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 11:43
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**91**	3	

Analysis Date/Time: 4-26-24/12:28
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 80%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	20.0%		EPA 1684
Percent Solids	80.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 10 0-1
Envision Sample Number: 24-5176
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 13:56
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**73**	3	

Analysis Date/Time: 4-26-24/12:37
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 78%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	22.0%		EPA 1684
Percent Solids	78.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 11 0-1
Envision Sample Number: 24-5177
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 11:05
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**54**	2	

Analysis Date/Time: 4-26-24/12:40
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 92%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	8.0%		EPA 1684
Percent Solids	92.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 12 0-1
Envision Sample Number: 24-5178
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 14:00
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**17**	2	

Analysis Date/Time: 4-26-24/12:44
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 88%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	12.0%		EPA 1684
Percent Solids	88.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 13 0-1
Envision Sample Number: 24-5179
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 11:00
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**8.3**	2	

Analysis Date/Time: 4-26-24/12:47
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 90%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	10.0%		EPA 1684
Percent Solids	90.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 14 0-1
Envision Sample Number: 24-5180
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 10:52
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**17**	2	

Analysis Date/Time: 4-26-24/12:51
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 84%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	16.0%		EPA 1684
Percent Solids	84.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 15 0-1
Envision Sample Number: 24-5181
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 9:49
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**8.5**	2	

Analysis Date/Time: 4-26-24/12:54
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 82%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	18.0%		EPA 1684
Percent Solids	82.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 15 2-4
Envision Sample Number: 24-5182
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 9:49
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**16**	2	

Analysis Date/Time: 4-26-24/12:58
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 81%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	19.0%		EPA 1684
Percent Solids	81.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 16 0-1
Envision Sample Number: 24-5183
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 10:13
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**1,160**	2	

Analysis Date/Time: 4-26-24/13:01
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 85%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	15.0%		EPA 1684
Percent Solids	85.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: TCLP Metals 6010B ICP
Prep Method: EPA 1311

Client Sample ID:	SB 16 0-1	**Sample Collection Date/Time:**	4/22/24	10:13
Envision Sample Number:	24-5183	**Sample Received Date/Time:**	4/24/24	11:00
Sample Matrix:	soil			

Compounds	Sample Results (mg/L)	Reporting Limit (mg/L)	Flags
Lead, TCLP	**0.21**	0.01	

Analysis Date/Time:	5-2-24/16:36
Analyst Initials:	gjd
Date Digested:	4/30/2024
Initial Sample Volume:	50 mL
Final Volume:	50 mL
Analytical Batch:	050124icp

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 16 2-4
Envision Sample Number: 24-5184
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 10:13
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**30**	2	

Analysis Date/Time: 4-26-24/13:05
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 81%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	19.0%		EPA 1684
Percent Solids	81.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 17 0-1
Envision Sample Number: 24-5185
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 10:14
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**65**	2	

Analysis Date/Time: 4-26-24/13:14
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 86%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	14.0%		EPA 1684
Percent Solids	86.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 17 2-4
Envision Sample Number: 24-5186
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 10:14
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**13**	3	

Analysis Date/Time: 4-26-24/13:18
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 79%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	21.0%		EPA 1684
Percent Solids	79.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 18 0-1
Envision Sample Number: 24-5187
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 10:23
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**155**	3	

Analysis Date/Time: 4-26-24/13:22
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 76%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	24.0%		EPA 1684
Percent Solids	76.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 18 2-4
Envision Sample Number: 24-5188
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 10:23
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**506**	2	

Analysis Date/Time: 4-26-24/13:26
Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042624icp

Percent Solids 87%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	13.0%		EPA 1684
Percent Solids	87.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: TCLP Metals 6010B ICP
Prep Method: EPA 1311

Client Sample ID:	SB 18 2-4	**Sample Collection Date/Time:**	4/22/24	10:23
Envision Sample Number:	24-5188	**Sample Received Date/Time:**	4/24/24	11:00
Sample Matrix:	soil			

Compounds	Sample Results (mg/L)	Reporting Limit (mg/L)	Flags
Lead, TCLP	**0.22**	0.01	

Analysis Date/Time:	5-2-24/16:40
Analyst Initials:	gjd
Date Digested:	4/30/2024
Initial Sample Volume:	50 mL
Final Volume:	50 mL
Analytical Batch:	050124icp

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 19 0-1
Envision Sample Number: 24-5189
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 10:30
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**171**	2	

Analysis Date/Time: 4-29-24/9:28
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 82%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	18.0%		EPA 1684
Percent Solids	82.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 19 2-4
Envision Sample Number: 24-5190
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 10:30
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**13**	2	

Analysis Date/Time: 4-29-24/9:31
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 81%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	19.0%		EPA 1684
Percent Solids	81.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 20 0-1
Envision Sample Number: 24-5191
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 10:40
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**16**	2	

Analysis Date/Time: 4-29-24/9:35
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 83%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	17.0%		EPA 1684
Percent Solids	83.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 20 2-4
Envision Sample Number: 24-5192
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 10:40
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**13**	2	

Analysis Date/Time: 4-29-24/9:39
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 85%
All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	15.0%		EPA 1684
Percent Solids	85.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 21 0-1
Envision Sample Number: 24-5193
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 11:25
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**11**	2	

Analysis Date/Time: 4-29-24/9:43
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 90%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	10.0%		EPA 1684
Percent Solids	90.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 21 2-4
Envision Sample Number: 24-5194
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 11:25
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**17**	2	

Analysis Date/Time: 4-29-24/9:47
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 86%
All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	14.0%		EPA 1684
Percent Solids	86.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 22 0-1
Envision Sample Number: 24-5195
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 10:47
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**16**	2	

Analysis Date/Time: 4-29-24/9:51
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 85%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	15.0%		EPA 1684
Percent Solids	85.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 22 2-4
Envision Sample Number: 24-5196
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 10:47
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**10**	2	

Analysis Date/Time: 4-29-24/9:54
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 86%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	14.0%		EPA 1684
Percent Solids	86.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 23 0-1
Envision Sample Number: 24-5197
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 14:05
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**7.9**	2	

Analysis Date/Time: 4-29-24/9:58
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 89%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	11.0%		EPA 1684
Percent Solids	89.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 23 2-4
Envision Sample Number: 24-5198
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 14:05
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**6.1**	2	

Analysis Date/Time: 4-29-24/10:07
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 90%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	10.0%		EPA 1684
Percent Solids	90.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 24 0-1
Envision Sample Number: 24-5199
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 15:08
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**7.2**	2	

Analysis Date/Time: 4-29-24/10:10
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 90%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	10.0%		EPA 1684
Percent Solids	90.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 24 2-4
Envision Sample Number: 24-5200
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 15:08
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**4.8**	2	

Analysis Date/Time: 4-29-24/10:13
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 89%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	11.0%		EPA 1684
Percent Solids	89.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 24 0-1 FD
Envision Sample Number: 24-5201
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 15:08
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**12**	2	

Analysis Date/Time: 4-29-24/10:16
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 88%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	12.0%		EPA 1684
Percent Solids	88.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 25 0-1
Envision Sample Number: 24-5202
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 15:16
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**12**	2	

Analysis Date/Time: 4-29-24/10:19
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 89%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	11.0%		EPA 1684
Percent Solids	89.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 25 2-4
Envision Sample Number: 24-5203
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 15:16
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**8.4**	2	

Analysis Date/Time: 4-29-24/10:29
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 89%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	11.0%		EPA 1684
Percent Solids	89.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 26 0-1
Envision Sample Number: 24-5204
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 13:46
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**16**	2	

Analysis Date/Time: 4-29-24/10:33
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 81%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	19.0%		EPA 1684
Percent Solids	81.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 26 2-4
Envision Sample Number: 24-5205
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 13:46
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**23**	3	

Analysis Date/Time: 4-29-24/10:36
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 77%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	23.0%		EPA 1684
Percent Solids	77.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 27 0-1
Envision Sample Number: 24-5206
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 15:24
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**481**	2	

Analysis Date/Time: 4-29-24/10:40
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 81%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	19.0%		EPA 1684
Percent Solids	81.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 27 2-4
Envision Sample Number: 24-5207
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 15:24
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**35**	2	

Analysis Date/Time: 4-29-24/10:49
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 89%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	11.0%		EPA 1684
Percent Solids	89.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 28 0-1
Envision Sample Number: 24-5208
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 7:58
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**16**	3	

Analysis Date/Time: 4-29-24/10:53
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 80%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	20.0%		EPA 1684
Percent Solids	80.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 28 2-4
Envision Sample Number: 24-5209
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 7:58
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**7.9**	2	

Analysis Date/Time: 4-29-24/10:56
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 89%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	11.0%		EPA 1684
Percent Solids	89.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 29 0-1
Envision Sample Number: 24-5210
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 16:10
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**32**	2	

Analysis Date/Time: 4-29-24/10:59
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 86%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	14.0%		EPA 1684
Percent Solids	86.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 29 2-4
Envision Sample Number: 24-5211
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 16:10
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**22**	3	

Analysis Date/Time: 4-29-24/11:03
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 76%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	24.0%		EPA 1684
Percent Solids	76.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 30 0-1
Envision Sample Number: 24-5212
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 16:16
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**580**	2	

Analysis Date/Time: 4-29-24/11:07
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 81%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	19.0%		EPA 1684
Percent Solids	81.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: TCLP Metals 6010B ICP
Prep Method: EPA 1311

Client Sample ID:	SB 30 0-1	**Sample Collection Date/Time:**	4/22/24	16:16
Envision Sample Number:	24-5212	**Sample Received Date/Time:**	4/24/24	11:00
Sample Matrix:	soil			

Compounds	Sample Results (mg/L)	Reporting Limit (mg/L)	Flags
Lead, TCLP	**0.057**	0.01	

Analysis Date/Time:	5-2-24/16:43
Analyst Initials:	gjd
Date Digested:	4/30/2024
Initial Sample Volume:	50 mL
Final Volume:	50 mL
Analytical Batch:	050124icp

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 30 2-4
Envision Sample Number: 24-5213
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 16:16
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**17**	2	

Analysis Date/Time: 4-29-24/11:11
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 85%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	15.0%		EPA 1684
Percent Solids	85.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 31 0-1
Envision Sample Number: 24-5214
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 16:21
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**37**	2	

Analysis Date/Time: 4-29-24/11:15
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 82%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	18.0%		EPA 1684
Percent Solids	82.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 31 2-4
Envision Sample Number: 24-5215
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 16:21
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**50**	3	

Analysis Date/Time: 4-29-24/11:19
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 80%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	20.0%		EPA 1684
Percent Solids	80.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 32 0-1
Envision Sample Number: 24-5216
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 16:26
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**43**	2	

Analysis Date/Time: 4-29-24/11:28
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 81%
All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	19.0%		EPA 1684
Percent Solids	81.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 32 2-4
Envision Sample Number: 24-5217
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 16:26
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**13**	2	

Analysis Date/Time: 4-29-24/11:31
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 87%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	13.0%		EPA 1684
Percent Solids	87.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 33 0-1
Envision Sample Number: 24-5218
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 8:06
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**6.8**	2	

Analysis Date/Time: 4-29-24/11:35
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 88%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	12.0%		EPA 1684
Percent Solids	88.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 33 2-4
Envision Sample Number: 24-5219
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 8:06
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**6.7**	2	

Analysis Date/Time: 4-29-24/11:38
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 90%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	10.0%		EPA 1684
Percent Solids	90.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 34 0-1
Envision Sample Number: 24-5220
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 8:30
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**6.7**	2	

Analysis Date/Time: 4-29-24/11:42
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 89%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	11.0%		EPA 1684
Percent Solids	89.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 34 2-4
Envision Sample Number: 24-5221
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 8:30
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**5.6**	2	

Analysis Date/Time: 4-29-24/11:45
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 90%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	10.0%		EPA 1684
Percent Solids	90.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 35 0-1
Envision Sample Number: 24-5222
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 8:42
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**6.2**	2	

Analysis Date/Time: 4-29-24/11:48
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 89%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	11.0%		EPA 1684
Percent Solids	89.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 35 2-4
Envision Sample Number: 24-5223
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 8:42
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**5.6**	2	

Analysis Date/Time: 4-29-24/11:52
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 89%
All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	11.0%		EPA 1684
Percent Solids	89.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 36 0-1
Envision Sample Number: 24-5224
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 14:33
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**43**	2	

Analysis Date/Time: 4-29-24/11:56
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 82%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	18.0%		EPA 1684
Percent Solids	82.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 36 2-4
Envision Sample Number: 24-5225
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 14:37
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**20**	2	

Analysis Date/Time: 4-29-24/11:59
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 81%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	19.0%		EPA 1684
Percent Solids	81.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 37 0-1
Envision Sample Number: 24-5226
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 14:28
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**11**	2	

Analysis Date/Time: 4-29-24/12:09
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 86%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	14.0%		EPA 1684
Percent Solids	86.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 37 0-1 FD
Envision Sample Number: 24-5227
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 14:28
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**13**	2	

Analysis Date/Time: 4-29-24/12:12
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 84%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	16.0%		EPA 1684
Percent Solids	84.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 37 2-4
Envision Sample Number: 24-5228
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 14:31
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**16**	2	

Analysis Date/Time: 4-29-24/12:16
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 82%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	18.0%		EPA 1684
Percent Solids	82.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 38 0-1
Envision Sample Number: 24-5229
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 13:59
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**49**	2	

Analysis Date/Time: 4-29-24/12:19
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 85%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	15.0%		EPA 1684
Percent Solids	85.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 38 2-4
Envision Sample Number: 24-5230
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 14:06
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**49**	2	

Analysis Date/Time: 4-29-24/12:30
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 84%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	16.0%		EPA 1684
Percent Solids	84.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 39 0-1
Envision Sample Number: 24-5231
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 13:48
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**152**	2	

Analysis Date/Time: 4-29-24/12:33
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 88%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	12.0%		EPA 1684
Percent Solids	88.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 39 2-4
Envision Sample Number: 24-5232
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 13:51
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**48**	2	

Analysis Date/Time: 4-29-24/12:37
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 87%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	13.0%		EPA 1684
Percent Solids	87.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 40 0-1
Envision Sample Number: 24-5233
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 13:37
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**269**	2	

Analysis Date/Time: 4-29-24/12:40
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 89%
All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	11.0%		EPA 1684
Percent Solids	89.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 40 4-6
Envision Sample Number: 24-5234
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 13:46
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**548**	3	

Analysis Date/Time: 4-29-24/14:41
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 79%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	21.0%		EPA 1684
Percent Solids	79.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: TCLP Metals 6010B ICP
Prep Method: EPA 1311

Client Sample ID:	SB 40 4-6	**Sample Collection Date/Time:**	4/23/24	13:46
Envision Sample Number:	24-5234	**Sample Received Date/Time:**	4/24/24	11:00
Sample Matrix:	soil			

Compounds	Sample Results (mg/L)	Reporting Limit (mg/L)	Flags
Lead, TCLP	**0.017**	0.01	

Analysis Date/Time:	5-2-24/16:46
Analyst Initials:	gjd
Date Digested:	4/30/2024
Initial Sample Volume:	50 mL
Final Volume:	50 mL
Analytical Batch:	050124icp

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 41 0-1
Envision Sample Number: 24-5235
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 14:08
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**24**	2	

Analysis Date/Time: 4-29-24/14:46
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 82%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	18.0%		EPA 1684
Percent Solids	82.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 41 4-6
Envision Sample Number: 24-5236
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 14:24
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**112**	2	

Analysis Date/Time: 4-29-24/14:49
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 86%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	14.0%		EPA 1684
Percent Solids	86.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 42 0-1
Envision Sample Number: 24-5237
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 13:07
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**369**	2	

Analysis Date/Time: 4-29-24/14:53
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 85%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	15.0%		EPA 1684
Percent Solids	85.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 42 4-6
Envision Sample Number: 24-5238
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 13:11
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**16**	2	

Analysis Date/Time: 4-29-24/14:56
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 82%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	18.0%		EPA 1684
Percent Solids	82.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 43 0-1
Envision Sample Number: 24-5239
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 13:17
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**19**	3	

Analysis Date/Time: 4-29-24/15:00
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 78%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	22.0%		EPA 1684
Percent Solids	78.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 43 4-6
Envision Sample Number: 24-5240
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 13:25
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**7.6**	2	

Analysis Date/Time: 4-29-24/15:04
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 85%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	15.0%		EPA 1684
Percent Solids	85.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 44 0-1
Envision Sample Number: 24-5241
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 12:56
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**73**	2	

Analysis Date/Time: 4-29-24/15:08
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 85%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	15.0%		EPA 1684
Percent Solids	85.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 44 4-6
Envision Sample Number: 24-5242
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 13:01
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**71**	2	

Analysis Date/Time: 4-29-24/15:12
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 82%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	18.0%		EPA 1684
Percent Solids	82.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 45 0-1
Envision Sample Number: 24-5243
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 9:20
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**28**	3	

Analysis Date/Time: 4-29-24/15:15
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 66%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	34.0%		EPA 1684
Percent Solids	66.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 45 10-12
Envision Sample Number: 24-5244
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 9:20
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**6.8**	2	

Analysis Date/Time: 4-29-24/15:24
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 95%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	5.0%		EPA 1684
Percent Solids	95.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 45 0-1 FD
Envision Sample Number: 24-5245
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 9:20
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**6.7**	2	

Analysis Date/Time: 4-29-24/15:27
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 90%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	10.0%		EPA 1684
Percent Solids	90.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 46 0-1
Envision Sample Number: 24-5246
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 11:58
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**207**	2	

Analysis Date/Time: 4-29-24/15:31
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 83%
All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	17.0%		EPA 1684
Percent Solids	83.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 46 4-6
Envision Sample Number: 24-5247
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 12:03
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**10**	2	

Analysis Date/Time: 4-29-24/15:42
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 84%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	16.0%		EPA 1684
Percent Solids	84.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 47 0-1
Envision Sample Number: 24-5248
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 9:06
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**9.0**	2	

Analysis Date/Time: 4-29-24/15:45
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 89%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	11.0%		EPA 1684
Percent Solids	89.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 47 10-12
Envision Sample Number: 24-5249
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 9:06
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**6.5**	2	

Analysis Date/Time: 4-29-24/15:49
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 92%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	8.0%		EPA 1684
Percent Solids	92.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 48 0-1
Envision Sample Number: 24-5250
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 14:44
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**27**	2	

Analysis Date/Time: 4-29-24/15:52
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 84%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	16.0%		EPA 1684
Percent Solids	84.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 48 10-12
Envision Sample Number: 24-5251
Sample Matrix: soil

Sample Collection Date/Time: 4/22/24 14:53
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**4.7**	2	

Analysis Date/Time: 4-29-24/15:56
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 93%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	7.0%		EPA 1684
Percent Solids	93.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 49 0-1
Envision Sample Number: 24-5252
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 11:45
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**21**	2	

Analysis Date/Time: 4-29-24/15:59
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 90%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	10.0%		EPA 1684
Percent Solids	90.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 49 4-6
Envision Sample Number: 24-5253
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 11:47
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**8.8**	2	

Analysis Date/Time: 4-29-24/16:08
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 85%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	15.0%		EPA 1684
Percent Solids	85.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 50 0-1
Envision Sample Number: 24-5254
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 11:34
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**184**	2	

Analysis Date/Time: 4-29-24/16:11
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 88%
All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	12.0%		EPA 1684
Percent Solids	88.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: SB 50 2-4
Envision Sample Number: 24-5255
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 11:34
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Lead	**4,580**	2	

Analysis Date/Time: 4-29-24/16:15
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Percent Solids 86%

All results reported on dry weight basis.

Analyte	Sample Results	Flags	Method
Percent Moisture	14.0%		EPA 1684
Percent Solids	86.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: TCLP Metals 6010B ICP
Prep Method: EPA 1311

Client Sample ID:	SB 50 2-4	**Sample Collection Date/Time:**	4/23/24	11:34
Envision Sample Number:	24-5255	**Sample Received Date/Time:**	4/24/24	11:00
Sample Matrix:	soil			

Compounds	Sample Results (mg/L)	Reporting Limit (mg/L)	Flags
Lead, TCLP	**4.83**	0.01	

Analysis Date/Time:	5-2-24/16:49
Analyst Initials:	gjd
Date Digested:	4/30/2024
Initial Sample Volume:	50 mL
Final Volume:	50 mL
Analytical Batch:	050124icp

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 8260
Prep Method: EPA 5035A
Analytical Batch: 043024VS

Client Sample ID: DRUM
Envision Sample Number: 24-5256
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 15:20
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acetone	< 0.111	0.111	
Acrolein	< 0.00019	0.001	1
Acrylonitrile	< 0.002	0.002	
Benzene	< 0.006	0.006	
Bromobenzene	< 0.006	0.006	
Bromochloromethane	< 0.006	0.006	
Bromodichloromethane	< 0.006	0.006	
Bromoform	< 0.006	0.006	
Bromomethane	< 0.006	0.006	
n-Butanol	< 0.056	0.056	
2-Butanone (MEK)	< 0.011	0.011	
n-Butylbenzene	< 0.006	0.006	
sec-Butylbenzene	< 0.006	0.006	
tert-Butylbenzene	< 0.006	0.006	
Carbon Disulfide	< 0.006	0.006	
Carbon Tetrachloride	< 0.006	0.006	
Chlorobenzene	< 0.006	0.006	
Chloroethane	< 0.006	0.006	
2-Chloroethylvinylether	< 0.056	0.056	
Chloroform	< 0.006	0.006	
Chloromethane	< 0.006	0.006	
2-Chlorotoluene	< 0.006	0.006	
4-Chlorotoluene	< 0.006	0.006	
1,2-Dibromo-3-chloropropane	< 0.0019	0.0019	
Dibromochloromethane	< 0.006	0.006	
1,2-Dibromoethane (EDB)	< 0.00031	0.001	1
Dibromomethane	< 0.006	0.006	
1,2-Dichlorobenzene	< 0.006	0.006	
1,3-Dichlorobenzene	< 0.006	0.006	
1,4-Dichlorobenzene	< 0.006	0.006	
trans-1,4-Dichloro-2-butene	< 0.006	0.006	
Dichlorodifluoromethane	< 0.006	0.006	
1,1-Dichloroethane	< 0.006	0.006	
1,2-Dichloroethane	< 0.006	0.006	
1,1-Dichloroethene	< 0.006	0.006	

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Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
cis-1,2-Dichloroethene	< 0.006	0.006	
trans-1,2-Dichloroethene	< 0.006	0.006	
1,2-Dichloropropane	< 0.006	0.006	
1,3-Dichloropropane	< 0.006	0.006	
2,2-Dichloropropane	< 0.006	0.006	
1,1-Dichloropropene	< 0.006	0.006	
1,3-Dichloropropene	< 0.006	0.006	
Ethylbenzene	< 0.006	0.006	
Ethyl methacrylate	< 0.111	0.111	
Hexachloro-1,3-butadiene	< 0.006	0.006	
n-Hexane	< 0.011	0.011	
2-Hexanone	< 0.011	0.011	
Iodomethane	< 0.011	0.011	
Isopropylbenzene (Cumene)	< 0.006	0.006	
p-Isopropyltoluene	< 0.006	0.006	
Methylene chloride	< 0.022	0.022	
4-Methyl-2-pentanone (MIBK)	< 0.011	0.011	
Methyl-tert-butyl-ether	< 0.006	0.006	
n-Propylbenzene	< 0.006	0.006	
Styrene	< 0.006	0.006	
1,1,1,2-Tetrachloroethane	< 0.006	0.006	
1,1,2,2-Tetrachloroethane	< 0.006	0.006	
Tetrachloroethene	< 0.006	0.006	
Toluene	< 0.006	0.006	
1,2,3-Trichlorobenzene	< 0.006	0.006	
1,2,4-Trichlorobenzene	< 0.006	0.006	
1,1,1-Trichloroethane	< 0.006	0.006	
1,1,2-Trichloroethane	< 0.006	0.006	
Trichloroethene	< 0.006	0.006	
Trichlorofluoromethane	< 0.006	0.006	
1,2,3-Trichloropropane	< 0.006	0.006	
1,2,4-Trimethylbenzene	< 0.006	0.006	
1,3,5-Trimethylbenzene	< 0.006	0.006	
Vinyl acetate	< 0.011	0.011	
Vinyl chloride	< 0.002	0.002	
Xylene, M&P	< 0.006	0.006	
Xylene, 0rtho	< 0.006	0.006	
Xylene, Total	< 0.011	0.011	
Dibromofluoromethane (surrogate)	101%		
1,2-Dichloroethane-d4 (surrogate)	100%		
Toluene-d8 (surrogate)	92%		
4-bromofluorobenzene (surrogate)	103%		
Analysis Date/Time:	5-1-24/01:30		
Analyst Initials	tjg		
Percent Solids:	90%		

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 8270 SVOC
Prep Method: EPA 3550C
Analytical Batch: 042524BS1

Client Sample ID: DRUM
Envision Sample Number: 24-5256
Sample Matrix: soil

Sample Collection Date/Time: 4/23/24 15:20
Sample Received Date/Time: 4/24/24 11:00

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
Acenaphthene	< 0.37	0.37	
Acenaphthylene	< 0.37	0.37	
Aniline	< 0.37	0.37	
Anthracene	< 0.37	0.37	
Benzo(a)anthracene	< 0.37	0.37	
Benzo(a)pyrene	< 0.074	0.074	
Benzo(b)fluoranthene	< 0.37	0.37	
Benzo(g,h,i)perylene	< 0.37	0.37	
Benzo(k)fluoranthene	< 0.37	0.37	
Benzoic Acid	< 1.85	1.85	
Benzyl Alcohol	< 0.74	0.74	
4-Bromophenylphenyl ether	< 0.37	0.37	
Butylbenzylphthalate	< 0.37	0.37	
Carbazole	< 0.74	0.74	
4-Chloro-3-methylphenol	< 0.74	0.74	
4-Chloroaniline	< 0.030	0.037	1
bis(2-Chloroethoxy)methane	< 0.074	0.074	
bis(2-Chloroethyl)ether	< 0.074	0.074	
bis(2-Chloroisopropyl)ether	< 0.37	0.37	
2-Chloronaphthalene	< 0.37	0.37	
2-Chlorophenol	< 0.37	0.37	
4-Chlorophenylphenyl ether	< 0.37	0.37	
Chrysene	< 0.37	0.37	
Dibenzo(a,h)anthracene	< 0.074	0.074	
Dibenzofuran	< 0.37	0.37	
1,2-Dichlorobenzene	< 0.37	0.37	
1,3-Dichlorobenzene	< 0.37	0.37	
1,4-Dichlorobenzene	< 0.37	0.37	
3,3-Dichlorobenzidine	< 0.16	0.74	
2,4-Dichlorophenol	< 0.37	0.37	
Diethylphthalate	< 0.37	0.37	
2,4-Dimethylphenol	< 0.37	0.37	
Dimethylphthalate	< 0.37	0.37	
Di-n-butylphthalate	< 0.37	0.37	

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8270 continued…

Compounds	Sample Results (mg/kg)	Rep. Limit (mg/kg)	Flags
4,6-Dinitro-2-methylphenol	< 0.046	0.046	
2,4-Dinitrophenol	< 0.074	0.074	
2,4-Dinitrotoluene	< 0.060	0.060	
2,6-Dinitrotoluene	< 0.37	0.37	
Di-n-octylphthalate	< 0.37	0.37	
bis(2-Ethylhexyl)phthalate	< 0.37	0.37	
Fluoranthene	< 0.37	0.37	
Fluorene	< 0.37	0.37	
Hexachloro-1,3-butadiene	< 0.074	0.074	
Hexachlorobenzene	< 0.074	0.074	
Hexachlorocyclopentadiene	< 0.37	0.37	
Hexachloroethane	< 0.074	0.074	
Indeno(1,2,3-cd)pyrene	< 0.37	0.37	
Isophorone	< 0.37	0.37	
2-Methylphenol (o-Cresol)	< 0.37	0.37	
3&4-Methylphenol	< 0.74	0.74	
1-Methylnaphthalene	< 0.37	0.37	
2-Methylnaphthalene	< 0.37	0.37	
Naphthalene	< 0.074	0.074	
2-Nitroaniline	< 1.48	1.48	
3-Nitroaniline	< 1.85	1.85	
4-Nitroaniline	< 0.074	0.074	
Nitrobenzene	< 0.04	0.04	
2-Nitrophenol	< 0.37	0.37	
4-Nitrophenol	< 1.85	1.85	
N-Nitroso-di-n-propylamine	< 0.074	0.074	
N-Nitrosodiphenylamine	< 0.37	0.37	
Pentachlorophenol	< 0.074	0.074	
Phenanthrene	< 0.37	0.37	
Phenol	< 0.37	0.37	
Pyrene	< 0.37	0.37	
1,2,4-Trichlorobenzene	< 0.37	0.37	
2,4,5-Trichlorophenol	< 0.37	0.37	
2,4,6-Trichlorophenol	< 0.37	0.37	
2-Fluorophenol (surrogate)	77%		
Phenol-d6 (surrogate)	77%		
Nitrobenzene-d5 (surrogate)	81%		
2-Fluorobiphenyl (surrogate)	70%		
2,4,6-Tribromophenol (surrogate)	60%		
p-Terphenyl-d14 (surrogate)	54%		
Analysis Date/Time:	04-25-24/19:25		
Analyst Initials:	NR		
Date Extracted:	4/25/24		
Initial Sample Weight (g):	30		
Final Volume (mL):	1		
Percent Solids	90%		

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID:	DRUM	**Sample Collection Date/Time:**	4/23/24	15:20
Envision Sample Number:	24-5256	**Sample Received Date/Time:**	4/24/24	11:00
Sample Matrix:	soil			

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Arsenic	< 2	2	
Barium	**21**	2	
Cadmium	< 2	2	
Chromium	**7.2**	2	
Lead	**10**	2	
Selenium	< 2	2	
Silver	< 2	2	

Analysis Date/Time: 4-29-24/16:19
Analyst Initials: gjd
Date Digested: 4/26/2024
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 042924icp

Analytical Method: EPA 7471A

Compounds	Sample Results (mg/kg)	Reporting Limit (mg/kg)	Flags
Mercury	< 1	1	

Hg Analysis Date/Time: 04/26/24/13:40hg
Hg Analyst Initials: gjd
Date Digested: 4/25/2024
Initial Sample Weight: 0.6 g
Final Volume: 50 mL
Analytical Batch: 042624hg

Percent Solids 90%

All results reported on dry weight basis.

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Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-847

Client Sample ID:	DRUM	**Sample Collection Date/Time:**	4/23/24	15:20
Envision Sample Number:	24-5256	**Sample Received Date/Time:**	4/24/24	11:00
Sample Matrix:	soil			

Analyte	Sample Results	Flags	Method
Percent Moisture	10.0%		EPA 1684
Percent Solids	90.0%		EPA 1684
Analysis Date:	4/26/24		
Analyst Initials	NR		

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Analytical Report

Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-864

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 043024VW

Client Sample ID: SB 8
Envision Sample Number: 24-5374
Sample Matrix: water

Sample Collection Date/Time: 4/25/24 11:15
Sample Received Date/Time: 4/26/24 10:37

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1	1	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	102%		
1,2-Dichloroethane-d4 (surrogate)	97%		
Toluene-d8 (surrogate)	91%		
4-bromofluorobenzene (surrogate)	109%		
Analysis Date/Time:	5-1-24/09:03		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-864

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: SB 8
Envision Sample Number: 24-5374
Sample Matrix: water

Sample Collection Date/Time: 4/25/24 11:15
Sample Received Date/Time: 4/26/24 10:37

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Chromium, total	**13**	10	
Lead, total	**16**	10	

ICP Analysis Date/Time: 4-30-24/15:31
Analyst Initials: gjd
Date Digested: 4/29/24
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 043024icp

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Analytical Report

Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-864

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: SB 8
Envision Sample Number: 24-5374
Sample Matrix: water

Sample Collection Date/Time: 4/25/24 11:15
Sample Received Date/Time: 4/26/24 10:37

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Chromium, dissolved	< 10	10	
Lead, dissolved	< 10	10	

ICP Analysis Date/Time: 4-30-24/15:34
Analyst Initials: gjd
Date Digested: 4/29/24
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 043024icp

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Analytical Report

Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-864

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 043024VW

Client Sample ID: SB 11
Envision Sample Number: 24-5375
Sample Matrix: water

Sample Collection Date/Time: 4/25/24 13:58
Sample Received Date/Time: 4/26/24 10:37

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1	1	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	114%		
1,2-Dichloroethane-d4 (surrogate)	92%		
Toluene-d8 (surrogate)	95%		
4-bromofluorobenzene (surrogate)	92%		
Analysis Date/Time:	5-1-24/07:30		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-864

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: SB 11
Envision Sample Number: 24-5375
Sample Matrix: water

Sample Collection Date/Time: 4/25/24 13:58
Sample Received Date/Time: 4/26/24 10:37

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Chromium, total	< 10	10	
Lead, total	< 10	10	

ICP Analysis Date/Time: 4-30-24/15:37
Analyst Initials: gjd
Date Digested: 4/29/24
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 043024icp

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Analytical Report

Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-864

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: SB 11
Envision Sample Number: 24-5375
Sample Matrix: water

Sample Collection Date/Time: 4/25/24 13:58
Sample Received Date/Time: 4/26/24 10:37

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Chromium, dissolved	< 10	10	
Lead, dissolved	< 10	10	

ICP Analysis Date/Time: 4-30-24/15:40
Analyst Initials: gjd
Date Digested: 4/29/24
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 043024icp

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Analytical Report

Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-864

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 043024VW

Client Sample ID: SB 15
Envision Sample Number: 24-5376
Sample Matrix: water

Sample Collection Date/Time: 4/25/24 10:23
Sample Received Date/Time: 4/26/24 10:37

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1	1	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	111%		
1,2-Dichloroethane-d4 (surrogate)	91%		
Toluene-d8 (surrogate)	89%		
4-bromofluorobenzene (surrogate)	114%		
Analysis Date/Time:	5-1-24/07:45		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-864

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: SB 15
Envision Sample Number: 24-5376
Sample Matrix: water

Sample Collection Date/Time: 4/25/24 10:23
Sample Received Date/Time: 4/26/24 10:37

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Chromium, total	**46**	10	
Lead, total	**18**	10	

ICP Analysis Date/Time: 4-30-24/15:43
Analyst Initials: gjd
Date Digested: 4/29/24
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 043024icp

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Analytical Report

Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-864

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: SB 15
Envision Sample Number: 24-5376
Sample Matrix: water

Sample Collection Date/Time: 4/25/24 10:23
Sample Received Date/Time: 4/26/24 10:37

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Chromium, dissolved	**28**	10	
Lead, dissolved	< 10	10	

ICP Analysis Date/Time: 4-30-24/15:46
Analyst Initials: gjd
Date Digested: 4/29/24
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 043024icp

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Analytical Report

Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-864

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 043024VW

Client Sample ID: SB 34
Envision Sample Number: 24-5377
Sample Matrix: water

Sample Collection Date/Time: 4/25/24 12:21
Sample Received Date/Time: 4/26/24 10:37

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1	1	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	104%		
1,2-Dichloroethane-d4 (surrogate)	99%		
Toluene-d8 (surrogate)	93%		
4-bromofluorobenzene (surrogate)	97%		
Analysis Date/Time:	5-1-24/06:13		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-864

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: SB 34
Envision Sample Number: 24-5377
Sample Matrix: water

Sample Collection Date/Time: 4/25/24 12:21
Sample Received Date/Time: 4/26/24 10:37

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Chromium, total	< 10	10	
Lead, total	< 10	10	

ICP Analysis Date/Time: 4-30-24/15:49
Analyst Initials: gjd
Date Digested: 4/29/24
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 043024icp

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ENVISION

Analytical Report

Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-864

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: SB 34
Envision Sample Number: 24-5377
Sample Matrix: water

Sample Collection Date/Time: 4/25/24 12:21
Sample Received Date/Time: 4/26/24 10:37

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Chromium, dissolved	< 10	10	
Lead, dissolved	< 10	10	

ICP Analysis Date/Time: 4-30-24/15:58
Analyst Initials: gjd
Date Digested: 4/29/24
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 043024icp

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Analytical Report

Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-864

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 043024VW

Client Sample ID: SB 45
Envision Sample Number: 24-5378
Sample Matrix: water

Sample Collection Date/Time: 4/25/24 13:35
Sample Received Date/Time: 4/26/24 10:37

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1	1	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	113%		
1,2-Dichloroethane-d4 (surrogate)	88%		
Toluene-d8 (surrogate)	91%		
4-bromofluorobenzene (surrogate)	111%		
Analysis Date/Time:	5-1-24/08:01		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-864

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: SB 45
Envision Sample Number: 24-5378
Sample Matrix: water

Sample Collection Date/Time: 4/25/24 13:35
Sample Received Date/Time: 4/26/24 10:37

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Chromium, total	**12**	10	
Lead, total	< 10	10	

ICP Analysis Date/Time: 4-30-24/16:13
Analyst Initials: gjd
Date Digested: 4/29/24
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 043024icp

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Analytical Report

Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-864

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: SB 45
Envision Sample Number: 24-5378
Sample Matrix: water

Sample Collection Date/Time: 4/25/24 13:35
Sample Received Date/Time: 4/26/24 10:37

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Chromium, dissolved	< 10	10	
Lead, dissolved	< 10	10	

ICP Analysis Date/Time: 4-30-24/16:17
Analyst Initials: gjd
Date Digested: 4/29/24
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 043024icp

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Analytical Report

Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-864

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 043024VW

Client Sample ID: SB 45FD
Envision Sample Number: 24-5379
Sample Matrix: water

Sample Collection Date/Time: 4/25/24 13:35
Sample Received Date/Time: 4/26/24 10:37

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1	1	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	112%		
1,2-Dichloroethane-d4 (surrogate)	91%		
Toluene-d8 (surrogate)	92%		
4-bromofluorobenzene (surrogate)	113%		
Analysis Date/Time:	5-1-24/08:17		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-864

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: SB 45FD
Envision Sample Number: 24-5379
Sample Matrix: water

Sample Collection Date/Time: 4/25/24 13:35
Sample Received Date/Time: 4/26/24 10:37

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Chromium, total	< 10	10	
Lead, total	< 10	10	

ICP Analysis Date/Time: 4-30-24/16:20
Analyst Initials: gjd
Date Digested: 4/29/24
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 043024icp

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Analytical Report

Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-864

Analytical Method: EPA 6010
Prep Method: EPA 3010A

Client Sample ID: SB 45FD
Envision Sample Number: 24-5379
Sample Matrix: water

Sample Collection Date/Time: 4/25/24 13:35
Sample Received Date/Time: 4/26/24 10:37

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Chromium, dissolved	< 10	10	
Lead, dissolved	< 10	10	

ICP Analysis Date/Time: 4-30-24/16:23
Analyst Initials: gjd
Date Digested: 4/29/24
Initial Sample Volume: 50 mL
Final Volume: 50 mL
Analytical Batch: 043024icp

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Analytical Report

Client Name: SES

Project ID: 2024-0085

Client Project Manager: GLEN HOWARD

ENVision Project Number: 2024-864

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 043024VW

Client Sample ID: TRIP BLANK
Envision Sample Number: 24-5380
Sample Matrix: water

Sample Collection Date/Time: 4/25/24
Sample Received Date/Time: 4/26/24 10:37

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	

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8260 continued...

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	
Hexachloro-1,3-butadiene	< 2.6	2.6	
n-Hexane	< 10	10	
2-Hexanone	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1	1	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (Total)	< 10	10	
Dibromofluoromethane (surrogate)	118%		
1,2-Dichloroethane-d4 (surrogate)	94%		
Toluene-d8 (surrogate)	90%		
4-bromofluorobenzene (surrogate)	102%		
Analysis Date/Time:	5-1-24/08:48		
Analyst Initials	tjg		

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ANALYTICAL REPORT

PREPARED FOR

Attn: Cheryl Crum
Envision Laboratories Inc
1439 Sadlier Circle West Drive
Indianapolis, Indiana 46239

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JOB DESCRIPTION

2024-864

JOB NUMBER

810-102596-1

Eurofins Eaton Analytical South Bend
110 S Hill Street
South Bend IN 46617

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization

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Authorized for release by
Amanda Scott, Project Manager
Amanda.Scott@et.eurofinsus.com
(574)233-4777

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Definitions/Glossary

Client: Envision Laboratories Inc
Job ID: 810-102596-1
Project/Site: 2024-864

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
810-102596-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/30/2024 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C.

HPLC/IC
Method 218.6_Pres_ORGF: The matrix spike/ matrix spike duplicate (MS/MSD) recoveries for Batch: 97890, Sample: 810-102596-4 were outside the control limits of 90-110%. MS- 82% MSD- 98% recovery, RPD 16% (Limit 10%) for the analyte: Chromium. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Envision Laboratories Inc
Project/Site: 2024-864

Job ID: 810-102596-1

Client Sample ID: SB 8
Lab Sample ID: 810-102596-1
Date Collected: 04/25/24 11:15
Matrix: Drinking Water
Date Received: 04/30/24 09:45

Method: EPA 218.6 - Chromium, Hexavalent (Ion Chromatography)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	<0.020		0.020		ug/L			05/06/24 21:15	1

Client Sample ID: SB 11
Lab Sample ID: 810-102596-2
Date Collected: 04/25/24 13:58
Matrix: Drinking Water
Date Received: 04/30/24 09:45

Method: EPA 218.6 - Chromium, Hexavalent (Ion Chromatography)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**0.50**		0.020		ug/L			05/06/24 21:05	1

Client Sample ID: SB 15
Lab Sample ID: 810-102596-3
Date Collected: 04/25/24 10:23
Matrix: Drinking Water
Date Received: 04/30/24 09:45

Method: EPA 218.6 - Chromium, Hexavalent (Ion Chromatography)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**10**		0.10		ug/L			05/06/24 21:25	5

Client Sample ID: SB 34
Lab Sample ID: 810-102596-4
Date Collected: 04/25/24 12:21
Matrix: Drinking Water
Date Received: 04/30/24 09:45

Method: EPA 218.6 - Chromium, Hexavalent (Ion Chromatography)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**0.15**	**F1 F2**	0.020		ug/L			05/06/24 20:35	1

Client Sample ID: SB 45
Lab Sample ID: 810-102596-5
Date Collected: 04/25/24 13:35
Matrix: Drinking Water
Date Received: 04/30/24 09:45

Method: EPA 218.6 - Chromium, Hexavalent (Ion Chromatography)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**0.30**		0.020		ug/L			05/06/24 21:35	1

Client Sample ID: SB 45FD
Lab Sample ID: 810-102596-6
Date Collected: 04/25/24 13:35
Matrix: Drinking Water
Date Received: 04/30/24 09:45

Method: EPA 218.6 - Chromium, Hexavalent (Ion Chromatography)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**0.26**		0.020		ug/L			05/06/24 21:45	1

Lab Chronicle

Client: Envision Laboratories Inc
Project/Site: 2024-864

Job ID: 810-102596-1

Client Sample ID: SB 8
Date Collected: 04/25/24 11:15
Date Received: 04/30/24 09:45

Lab Sample ID: 810-102596-1
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	218.6		1	97890	KO	EA SB	05/06/24 21:15

Client Sample ID: SB 11
Date Collected: 04/25/24 13:58
Date Received: 04/30/24 09:45

Lab Sample ID: 810-102596-2
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	218.6		1	97890	KO	EA SB	05/06/24 21:05

Client Sample ID: SB 15
Date Collected: 04/25/24 10:23
Date Received: 04/30/24 09:45

Lab Sample ID: 810-102596-3
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	218.6		5	97890	KO	EA SB	05/06/24 21:25

Client Sample ID: SB 34
Date Collected: 04/25/24 12:21
Date Received: 04/30/24 09:45

Lab Sample ID: 810-102596-4
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	218.6		1	97890	KO	EA SB	05/06/24 20:35

Client Sample ID: SB 45
Date Collected: 04/25/24 13:35
Date Received: 04/30/24 09:45

Lab Sample ID: 810-102596-5
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	218.6		1	97890	KO	EA SB	05/06/24 21:35

Client Sample ID: SB 45FD
Date Collected: 04/25/24 13:35
Date Received: 04/30/24 09:45

Lab Sample ID: 810-102596-6
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	218.6		1	97890	KO	EA SB	05/06/24 21:45

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Accreditation/Certification Summary

Client: Envision Laboratories Inc
Project/Site: 2024-864

Job ID: 810-102596-1

Laboratory: Eurofins Eaton Analytical South Bend

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Indiana	State	C-71-01	12-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
218.6		Drinking Water	Chromium, hexavalent

Method Summary

Client: Envision Laboratories Inc
Project/Site: 2024-864

Job ID: 810-102596-1

Method	Method Description	Protocol	Laboratory
218.6	Chromium, Hexavalent (Ion Chromatography)	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Sample Summary

Client: Envision Laboratories Inc
Project/Site: 2024-864

Job ID: 810-102596-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-102596-1	SB 8	Drinking Water	04/25/24 11:15	04/30/24 09:45
810-102596-2	SB 11	Drinking Water	04/25/24 13:58	04/30/24 09:45
810-102596-3	SB 15	Drinking Water	04/25/24 10:23	04/30/24 09:45
810-102596-4	SB 34	Drinking Water	04/25/24 12:21	04/30/24 09:45
810-102596-5	SB 45	Drinking Water	04/25/24 13:35	04/30/24 09:45
810-102596-6	SB 45FD	Drinking Water	04/25/24 13:35	04/30/24 09:45

Eurofins S.B.

810-102596 Chain of Custody

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. [1439 Sadlier Circle West Drive, Indianapolis, IN 46239] Phone: 317-351-8632 Fax: 317-351-8639

Client: **ENVision Labs**	Invoice Address: **SEE ABOVE**		**REQUESTED PAR**
Report Address: **SEE ABOVE**	Project Name: 2024-864	HEX CHROMIUM 218.6	MS/MSD
Report To: CHERYL CRUM	Lab contact:		
Phone: **SEE ABOVE**	Sampler:		
e-mail: **SEE ABOVE**	P.O. #:		
Desired TAT: (Please Circle one) **1-DAY 2-DAY 3-DAY** [redacted]	QA/QC Required: (Circle One) **Level II Level III Level IV**		

Sample Integrity:
Cooler Temp:_____°C
Samples on ice? Yes No
Samples Intact? Yes No
Custody Seal? Yes No
ENVision provided bottles? Yes No
Vials free of head space? Yes No N/A
pH Checked? Yes No N/A
Method 5035 collection used? YES NO
5035 samples received within 48rhs of collection? Yes No

Sample #	Sample ID	Matrix	Coll. Date	Coll. Time				HNO3	H2SO4	NaOH	Other	None	ENVision Sample ID		
24-5374	SB 8	WT	4/25/24	11:15	X										
24-5375	SB 11	WT	4/25/24	13:58	X										
24-5376	SB 15	WT	4/25/24	10:23	X										
24-5377	SB 34	WT	4/25/24	12:21	X	X									
24-5378	SB 45	WT	4/25/24	13:35	X										
24-5379	SB 45FD	WT	4/25/24	13:35	X										

Initial Temp: 0.0
Corrected Temp: 0.0 wet
IR Gun #: 31

pH Acceptable 9.34, 9

chlorine absent

COMMENTS:

RELINQUISHED BY:	DATE	TIME		RECEIVED BY:	DATE	TIME	
LISA DAULTON	4/29/2024	12:00		Peyton Tornbloge	4/30/24	0945	UPS

Login Sample Receipt Checklist

Client: Envision Laboratories Inc

Job Number: 810-102596-1

Login Number: 102596

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Trowbridge, Peyton

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

First Environmental Laboratories, Inc

IL ELAP / NELAC Certification # 100292

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May 06, 2024

Ms. Cheryl Crum
ENVISION LABORATORIES, INC.
1439 Sandlier Cir. W. Drive
Indianapolis, IN 46239

Project ID: 2024-847
First Environmental File ID: 24-3418
Date Received: April 26, 2024

Dear Ms. Cheryl Crum:

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:

1002922024-13: effective 03/06/24 through 02/28/2025.

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,

Joy Geraci
Project Manager

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Case Narrative

ENVISION LABORATORIES, INC.

Lab File ID: **24-3418**

Project ID: **2024-847**

Date Received: **April 26, 2024**

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
24-3418-001	24-5256/DRUM	4/23/2024 15:20

Sample Batch Comments:

Sample acceptance criteria were met.

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Case Narrative

ENVISION LABORATORIES, INC.

Lab File ID: **24-3418**

Project ID: **2024-847**

Date Received: **April 26, 2024**

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:	ENVISION LABORATORIES, INC.	**Date Collected:**	04/23/24
Project ID:	2024-847	**Time Collected:**	15:20
Sample ID:	24-5256/DRUM	**Date Received:**	04/26/24
Sample No:	24-3418-001	**Date Reported:**	05/06/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, total **Method: 2540G 2011**				
Analysis Date: 04/29/24				
Total Solids	80.00		%	
Phenols **Method: 420.1**				
Analysis Date: 05/06/24				
Phenols	< 2.5	2.5	mg/kg	N

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Quality Control Summary

Client: ENVISION LABORATORIES, INC. **Lab File ID:** 24-3418

Project ID: 2024-847

QC Lab#	Time QC Code	Parameter	Reported Result	Units	QC Result	%R Limits Low	%R Limits High	RPD	RPD Limit
Parameter: Phenols		**Analytical Method:** 420.1			**Analytical WS #:** 244358	**Analysis Date:** 5/6/2024			
24-3417-004MS	MS	Phenols	0.22	mg/L	%R: 109.5	75	125		
24-3417-004MSD	MSD	Phenols	0.23	mg/L	%R: 113.5	75	125	RPD: 4	20
CCB880541	CB	Phenols	< 0.05	mg/L	0	-			
CCB880542	CB	Phenols	< 0.05	mg/L	0	-			
CCB880543	CB	Phenols	< 0.05	mg/L	0	-			
CCVS880544	CCVS	Phenols	0.49	mg/L	%R: 98.6	90	110		
CCVS880545	CCVS	Phenols	0.49	mg/L	%R: 97.2	90	110		
CCVS880546	CCVS	Phenols	0.49	mg/L	%R: 97.2	90	110		
LCS880547	LCS	Phenols	0.46	mg/L	%R: 92.4	80	120		
PB880550	PB	Phenols	< 0.05	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.

15F

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. [1439 Sadlier Circle West Drive, Indianapolis, IN 46239] Phone: 317-351-8632 Fax: 317-351-8639

Client: **ENVision Labs**	Invoice Address: **SEE ABOVE**		**REQUESTED PAR**
Report Address: **SEE ABOVE**	Project Name: 2024-847	PHENOLS	% MOISTURE
Report To: CHERYL CRUM	Lab contact:		
Phone: **SEE ABOVE**	Sampler:		
e-mail: **SEE ABOVE**	P.O. #:		
Desired TAT: (Please Circle one) **1-DAY 2-DAY 3-DAY STD (5-7 BUS. DAYS)**	QA/QC Required: (Circle One) **Level II Level III Level IV**		

Sample Integrity:
Cooler Temp: 3.7 °C
Samples on ice? (Yes) No
Samples Intact? (Yes) No
Custody Seal? (Yes) No
ENVision provided bottles? (Yes) No
Vials free of head space? Yes No (N/A)
pH Checked? Yes No (N/A)
Method 5035 collection used? YES (NO)
5035 samples received within 48rhs of collection? Yes (No)

Sample #	Sample ID	Matrix	Coll. Date	Coll. Time				HNO3	H2SO4	NaOH	Other	None	ENVision Sample ID		
24-5256	DRUM	SL	4/23/24	15:20	X	X							24	3418	001

COMMENTS:

RELINQUISHED BY:	DATE	TIME		RECEIVED BY:	DATE	TIME
LISA DAULTON	4/25/2024	12:00		M Y	4-26-24	1200

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EPA 8260 Quality Control Data

ENVision Batch Number: 043024VS

Method Blank (MB):	MB Results (ug/kg)	Rep Lim (ug/kg)	Flag
Acetone	< 100	100	
Acrolein	< 0.17	1	1
Acrylonitrile	< 2	2	
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1.7	1.7	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 0.28	1	1
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 5	5	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 5	5	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	

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8260 QC Continued…

Method Blank (MB)	MB Results (ug/kg)	Rep Lim (ug/kg)	Flag
Hexachloro-1,3-butadiene	< 5	5	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 20	20	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 5	5	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 5	5	
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 5	5	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Dibromofluoromethane (surrogate)	107%		
1,2-Dichloroethane-d4 (surrogate)	92%		
Toluene-d8 (surrogate)	91%		
4-bromofluorobenzene (surrogate)	112%		
Analysis Date/Time:	5-1-24/00:59		
Analyst Initials	tjg		

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8260 QC Continued…

LCS/LCSD:	LCS Results (ug/kg)	LCS/LCSD Conc. (ug/kg)	LCSD Result (ug/kg)	LCS Rec.	LCSD Rec.	% D	Flag
Vinyl Chloride	48.8	50	50.7	98%	101%	3.8	
1,1-Dichloroethene	51.6	50	49.5	103%	99%	4.2	
trans-1,2-Dichloroethene	53.6	50	50.5	107%	101%	6.0	
Methyl-tert-butyl ether	48.6	50	49.9	97%	100%	2.6	
1,1-Dichloroethane	52.1	50	51.7	104%	103%	0.8	
cis-1,2-Dichloroethene	54.8	50	51.6	110%	103%	6.0	
Chloroform	52.6	50	52.4	105%	105%	0.4	
1,1,1-Trichloroethane	50.9	50	51.1	102%	102%	0.4	
Benzene	52.8	50	50.5	106%	101%	4.5	
Trichloroethene	51.7	50	53.3	103%	107%	3.0	
Toluene	50.6	50	50.9	101%	102%	0.6	
1,1,1,2-Tetrachloroethane	50.6	50	42.0	101%	84%	18.6	
Chlorobenzene	51.5	50	51.6	103%	103%	0.2	
Ethylbenzene	49.6	50	50.3	99%	101%	1.4	
o-Xylene	47.7	50	48.9	95%	98%	2.5	
n-Propylbenzene	49.4	50	50.3	99%	101%	1.8	
Dibromofluoromethane (surrogate)	113%		116%				
1,2-Dichloroethane-d4 (surrogate)	97%		100%				
Toluene-d8 (surrogate)	98%		103%				
4-bromofluorobenzene (surrogate)	100%		99%				
Analysis Date/Time:	5-1-24/00:27		5-1-24/00:43				
Analyst Initials	tjg		tjg				

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EPA 8270 Quality Control Data

ENVision Batch Number: 042524BS1

Method Blank (MB):	Method Blank Results (mg/kg)	Reporting Limit (mg/kg)	Flag
Acenaphthene	< 0.33	0.33	
Acenaphthylene	< 0.33	0.33	
Aniline	< 0.33	0.33	
Anthracene	< 0.33	0.33	
Benzo(a)anthracene	< 0.33	0.33	
Benzo(a)pyrene	< 0.33	0.33	
Benzo(b)fluoranthene	< 0.33	0.33	
Benzo(g,h,i)perylene	< 0.33	0.33	
Benzo(k)fluoranthene	< 0.33	0.33	
Benzoic Acid	< 1.6	1.6	
Benzyl Alcohol	< 0.66	0.66	
4-Bromophenylphenyl ether	< 0.33	0.33	
Butylbenzylphthalate	< 0.33	0.33	
Carbazole	< 0.66	0.66	
4-Chloro-3-methylphenol	< 0.66	0.66	
4-Chloroaniline	< 0.66	0.66	
bis(2-Chloroethoxy)methane	< 0.33	0.33	
bis(2-Chloroethyl)ether	< 0.33	0.33	
bis(2-Chloroisopropyl)ether	< 0.33	0.33	
2-Chloronaphthalene	< 0.33	0.33	
2-Chlorophenol	< 0.33	0.33	
4-Chlorophenylphenyl ether	< 0.33	0.33	
Chrysene	< 0.33	0.33	
Dibenzo(a,h)anthracene	< 0.33	0.33	
Dibenzofuran	< 0.33	0.33	
1,2-Dichlorobenzene	< 0.33	0.33	
1,3-Dichlorobenzene	< 0.33	0.33	
1,4-Dichlorobenzene	< 0.33	0.33	
3,3-Dichlorobenzidine	< 0.66	0.66	
2,4-Dichlorophenol	< 0.33	0.33	
Diethylphthalate	< 0.33	0.33	
2,4-Dimethylphenol	< 0.33	0.33	
Dimethylphthalate	< 0.33	0.33	
Di-n-butylphthalate	< 0.33	0.33	
4,6-Dinitro-2-methylphenol	< 1.6	1.6	
2,4-Dinitrophenol	< 1.6	1.6	
2,4-Dinitrotoluene	< 0.33	0.33	
2,6-Dinitrotoluene	< 0.33	0.33	
Di-n-octylphthalate	< 0.33	0.33	
bis(2-Ethylhexyl)phthalate	< 0.33	0.33	
Fluoranthene	< 0.33	0.33	
Fluorene	< 0.33	0.33	
Hexachloro-1,3-butadiene	< 0.33	0.33	
Hexachlorobenzene	< 0.33	0.33	

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8270 QC continued…

Method Blank (MB):	Method Blank Results (mg/kg)	Reporting Limit (mg/kg)	Flag
Hexachlorocyclopentadiene	< 0.33	0.33	
Hexachloroethane	< 0.33	0.33	
Indeno(1,2,3-cd)pyrene	< 0.33	0.33	
Isophorone	< 0.33	0.33	
2-Methylnaphthalene	< 0.33	0.33	
2-Methylphenol (o-Cresol)	< 0.33	0.33	
3&4-Methylphenol	< 0.66	0.66	
Naphthalene	< 0.33	0.33	
2-Nitroaniline	< 1.6	1.6	
3-Nitroaniline	< 1.6	1.6	
4-Nitroaniline	< 1.6	1.6	
Nitrobenzene	< 0.33	0.33	
2-Nitrophenol	< 0.33	0.33	
4-Nitrophenol	< 1.6	1.6	
N-Nitroso-di-n-propylamine	< 0.33	0.33	
N-Nitrosodiphenylamine	< 0.33	0.33	
Pentachlorophenol	< 1.6	1.6	
Phenanthrene	<0.3	0.3	
Phenol	< 0.33	0.33	
Pyrene	< 0.33	0.33	
1,2,4-Trichlorobenzene	< 0.33	0.33	
2,4,5-Trichlorophenol	< 0.33	0.33	
2,4,6-Trichlorophenol	< 0.33	0.33	
2-Fluorophenol (surrogate)	32%		
Phenol-d6 (surrogate)	47%		
Nitrobenzene-d5 (surrogate)	84%		
2-Fluorobiphenyl (surrogate)	83%		
2,4,6-Tribromophenol (surrogate)	25%		
p-Terphenyl-d14 (surrogate)	79%		
Analysis Date/Time:	04-25-24/14:33		
Analyst Initials:	gjd		
Date Extracted:	4/25/2024		
Initial Sample Weight:	30 g		
Final Volume:	1.0 mL		

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LCS/LCSD:	LCS Results	LCS Concentration	LCSD Results	LCS Recovery	LCSD Recovery	RPD	Flag
Phenol	25.33	50.0	24.0	51%	48%	5.4%	
2-Chlorophenol	24.56	50.0	25.9	49%	52%	5.4%	
1,4-Dichlorobenzene	24.51	50.0	22.1	49%	44%	10.3%	
N-Nitroso-di-n-propylamine	27.29	50.0	25.9	55%	52%	5.2%	
1,2,4-Trichlorobenzene	21.77	50.0	20.2	44%	40%	7.4%	
4-Chloro-3-methylphenol	21.54	50.0	23.1	43%	46%	7.0%	
2,4,5-Tricholorphenol	24.66	50.0	22.1	49%	44%	11.1%	
2-Nitroaniline	21.10	50.0	23.9	42%	48%	12.2%	
3-Nitroaniline	23.33	50.0	25.7	47%	51%	9.8%	
Acenaphthene	20.03	50.0	20.0	40%	40%	0.1%	
4-Nitrophenol	22.28	100.0	21.2	22%	21%	4.8%	
2,4-Dinitrotoluene	23.57	50.0	22.2	47%	44%	6.2%	
4-Nitroaniline	22.14	50.0	24.5	44%	49%	10.0%	
4,6-Dinitro-2-methylphenol	20.23	50.0	21.9	40%	44%	7.8%	
Pentachlorophenol	21.26	50.0	23.1	43%	46%	8.1%	
Pyrene	21.18	50.0	20.6	42%	41%	2.8%	
2-Fluorophenol (surrogate)	49%		65%				
Phenol-d6 (surrogate)	55%		71%				
Nitrobenzene-d5 (surrogate)	81%		85%				
2-Fluorobiphenyl (surrogate)	79%		100%				
2,4,6-Tribromophenol (surrogate)	42%		21%				
p-Terphenyl-d14 (surrogate)	65%		87%				
Analysis Date/Time:	04-25-24/14:59		04-25-24/15:26				
Analyst Initials:	gjd		gjd				
Date Extracted:	4/25/2024		25-Apr				
Initial Sample Weight:	30 g		30 g				
Final Volume:	1.0 mL		1.0 mL				

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EPA 6010B Metals Quality Control Data

ENVision Batch Number: 042624icp/042624hg

Method Blank (MB):	MB Results (mg/kg)	Rep Lim (mg/kg)	Flag
Lead	< 2	2	
Analysis Date/Time:	4-26-24/11:00icp		
Analyst Initials:	gjd		

Laboratory Control Standard:	LCS Results(ppm)	LCS Conc(ppm)	% Rec	Flag
Lead	0.48	0.50	96%	
Analysis Date/Time:	4-26-24/10:57icp			
Analyst Initials:	gjd			

Matrix Spike/Matrix Spike Dup:	Sample Res (mg/kg)	MS Res (mg/kg)	MSD Res (mg/kg)	Spk Conc (mg/kg)	MS Rec	MSD Rec	% D	Flag
Lead	4.38	4.89	4.92	0.50	102%	108%	5.714	
Analysis Date/Time:	4-26-24/11:51	4-26-24/11:51	4-26-24/11:51					
Analyst Initials:	gjd	gjd	gjd					
Original Sample Number Spiked:	24-5167	24-5167	24-5167					

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EPA 6010B Metals Quality Control Data

ENVision Batch Number: 042924icp

Method Blank (MB):	MB Results (mg/kg)	Rep Lim (mg/kg)	Flag
Lead	< 2	2	
Analysis Date/Time:	4-29-24/9:13		
Analyst Initials:	gjd		

Laboratory Control Standard:	LCS Results(ppm)	LCS Conc(ppm)	% Rec	Flag
Lead	0.53	0.50	106%	
Analysis Date/Time:	4-29-24/9:10			
Analyst Initials:	gjd			

Matrix Spike/Matrix Spike Dup:	Sample Res (mg/kg)	MS Res (mg/kg)	MSD Res (mg/kg)	Spk Conc (mg/kg)	MS Rec	MSD Rec	% D	Flag
Lead	0.21	0.64	0.64	0.50	86%	86%	0	
Analysis Date/Time:	4-29-24/10:18	4-29-24/10:23	4-29-24/10:26					
Analyst Initials:	gjd	gjd	gjd					
Original Sample Number Spiked:	24-5202	24-5202	24-5202					

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EPA 6010B Metals Quality Control Data

ENVision Batch Number: 042924icp

Method Blank (MB):	MB Results (mg/kg)	Rep Lim (mg/kg)	Flag
Lead	< 2	2	
Analysis Date/Time:	4-29-24/9:13		
Analyst Initials:	gjd		

Laboratory Control Standard:	LCS Results(ppm)	LCS Conc(ppm)	% Rec	Flag
Lead	0.53	0.50	106%	
Analysis Date/Time:	4-29-24/9:10			
Analyst Initials:	gjd			

Matrix Spike/Matrix Spike Dup:	Sample Res (mg/kg)	MS Res (mg/kg)	MSD Res (mg/kg)	Spk Conc (mg/kg)	MS Rec	MSD Rec	% D	Flag
Lead	0.84	1.63	1.64	0.50	158%	160%	1.258	2
Analysis Date/Time:	4-29-24/12:19	4-29-24/12:23	4-29-24/12:26					
Analyst Initials:	gjd	gjd	gjd					
Original Sample Number Spiked:	24-5229	24-5229	24-5229					

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EPA 6010B Metals Quality Control Data

ENVision Batch Number: 042924icp

Method Blank (MB):	MB Results (mg/kg)	Rep Lim (mg/kg)	Flag
Lead	< 2	2	
Analysis Date/Time:	4-29-24/9:13		
Analyst Initials:	gjd		

Laboratory Control Standard:	LCS Results(ppm)	LCS Conc(ppm)	% Rec	Flag
Lead	0.53	0.50	106%	
Analysis Date/Time:	4-29-24/9:10			
Analyst Initials:	gjd			

Matrix Spike/Matrix Spike Dup:	Sample Res (mg/kg)	MS Res (mg/kg)	MSD Res (mg/kg)	Spk Conc (mg/kg)	MS Rec	MSD Rec	% D	Flag
Lead	3.43	8.38	8.39	5.00	99%	99%	0.202	
Analysis Date/Time:	4-29-24/12:33	4-29-24/12:35	4-29-24/12:39					
Analyst Initials:	gjd	gjd	gjd					
Original Sample Number Spiked:	24-5246	24-5246	24-5246					

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EPA 6010B/7471A Metals Quality Control Data

ENVision Batch Number: 042924icp/042624hg

Method Blank (MB):	MB Results (mg/kg)	Rep Lim (mg/kg)	Flag
Arsenic	< 2	2	
Barium	< 2	2	
Cadmium	< 2	2	
Chromium	< 2	2	
Lead	< 2	2	
Mercury	< 1	1	
Selenium	< 2	2	
Silver	< 2	2	
Analysis Date/Time:	4-29-24/9:09/4/26/24/13:32hg		
Analyst Initials:	gjd		

Laboratory Control Standard:	LCS Results(ppm)	LCS Conc(ppm)	% Rec	Flag
Arsenic	0.53	0.50	106%	
Barium	0.48	0.50	96%	
Cadmium	0.53	0.50	106%	
Chromium	0.54	0.50	108%	
Lead	0.53	0.50	106%	
Mercury	0.0053	0.005	106%	
Selenium	0.51	0.50	102%	
Silver	0.54	0.50	108%	
Analysis Date/Time:	4-29-24/9:06/04/26/24/13:31hg			
Analyst Initials:	gjd			

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EPA 6010B TCLP Metals Quality Control Data

ENVision Batch Number: 050124icp

Method Blank (MB):	MB Results (mg/L)	Rep Lim (mg/L)	Flag
Lead	< 0.01	0.01	
Analysis Date/Time:	5-1-24/8:24		
Analyst Initials:	gjd		

Laboratory Control Standard (LCS):	LCS Results(mg/L)	LCS Conc(mg/L)	% Rec	Flag
Lead	0.48	0.50	96	
Analysis Date/Time:	5-1-24/8:22			
Analyst Initials:	gjd			

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EPA 8260 Quality Control Data

ENVision Batch Number: 043024VW

Method Blank (MB):	MB Results (ug/L)	Rep Lim (ug/L)	Flag
Acetone	< 100	100	
Acrolein	< 1	1	
Acrylonitrile	< 0.45	1	1
Benzene	< 5	5	
Bromobenzene	< 5	5	
Bromochloromethane	< 5	5	
Bromodichloromethane	< 5	5	
Bromoform	< 5	5	
Bromomethane	< 5	5	
n-Butanol	< 50	50	
2-Butanone (MEK)	< 10	10	
n-Butylbenzene	< 5	5	
sec-Butylbenzene	< 5	5	
tert-Butylbenzene	< 5	5	
Carbon Disulfide	< 5	5	
Carbon Tetrachloride	< 5	5	
Chlorobenzene	< 5	5	
Chloroethane	< 5	5	
2-Chloroethylvinylether	< 50	50	
Chloroform	< 5	5	
Chloromethane	< 5	5	
2-Chlorotoluene	< 5	5	
4-Chlorotoluene	< 5	5	
1,2-Dibromo-3-chloropropane	< 1	1	
Dibromochloromethane	< 5	5	
1,2-Dibromoethane (EDB)	< 1	1	
Dibromomethane	< 5	5	
1,2-Dichlorobenzene	< 5	5	
1,3-Dichlorobenzene	< 5	5	
1,4-Dichlorobenzene	< 5	5	
trans-1,4-Dichloro-2-butene	< 1	1	
Dichlorodifluoromethane	< 5	5	
1,1-Dichloroethane	< 5	5	
1,2-Dichloroethane	< 5	5	
1,1-Dichloroethene	< 5	5	
cis-1,2-Dichloroethene	< 5	5	
trans-1,2-Dichloroethene	< 5	5	
1,2-Dichloropropane	< 5	5	
1,3-Dichloropropane	< 5	5	
2,2-Dichloropropane	< 5	5	
1,1-Dichloropropene	< 5	5	
1,3-Dichloropropene	< 4.1	4.1	
Ethylbenzene	< 5	5	
Ethyl methacrylate	< 100	100	

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8260 QC Continued…

Method Blank (MB):	MB Results (ug/L)	Rep Lim (ug/L)	Flag
Hexachloro-1,3-butadiene	< 2.6	2.6	
2-Hexanone	< 10	10	
n-Hexane	< 10	10	
Iodomethane	< 10	10	
Isopropylbenzene (Cumene)	< 5	5	
p-Isopropyltoluene	< 5	5	
Methylene chloride	< 5	5	
4-Methyl-2-pentanone (MIBK)	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
1-Methylnaphthalene	< 5	5	
2-Methylnaphthalene	< 5	5	
Naphthalene	< 1	1	
n-Propylbenzene	< 5	5	
Styrene	< 5	5	
1,1,1,2-Tetrachloroethane	< 5	5	
1,1,2,2-Tetrachloroethane	< 0.66	1	1
Tetrachloroethene	< 5	5	
Toluene	< 5	5	
1,2,3-Trichlorobenzene	< 5	5	
1,2,4-Trichlorobenzene	< 5	5	
1,1,1-Trichloroethane	< 5	5	
1,1,2-Trichloroethane	< 5	5	
Trichloroethene	< 5	5	
Trichlorofluoromethane	< 5	5	
1,2,3-Trichloropropane	< 1	1	
1,2,4-Trimethylbenzene	< 5	5	
1,3,5-Trimethylbenzene	< 5	5	
Vinyl acetate	< 10	10	
Vinyl chloride	< 2	2	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylene (total)	< 10	10	
Dibromofluoromethane (surrogate)	113%		
1,2-Dichloroethane-d4 (surrogate)	95%		
Toluene-d8 (surrogate)	94%		
4-bromofluorobenzene (surrogate)	90%		
Analysis Date/Time:	5-1-24/01:14		
Analyst Initials	tjg		

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8260 QC Continued…

LCS/LCSD	LCS Results (ug/L)	LCS/LCSD Conc. (ug/L)	LCSD Result (ug/L)	LCS Rec.	LCSD Rec.	% D	Flag
Vinyl Chloride	51.4	50	50.3	103%	101%	2.2	
1,1-Dichloroethene	50.4	50	54.7	101%	109%	8.2	
trans-1,2-Dichloroethene	51.6	50	54.8	103%	110%	6.0	
Methyl-tert-butyl-ether	48.4	50	52.9	97%	106%	8.9	
1,1-Dichloroethane	52.5	50	54.6	105%	109%	3.9	
cis-1,2-Dichloroethene	52.1	50	55.2	104%	110%	5.8	
Chloroform	52.7	50	53.9	105%	108%	2.3	
1,1,1-Trichloroethane	49.4	50	52.6	99%	105%	6.3	
Benzene	52.9	50	54.8	106%	110%	3.5	
Trichloroethene	52.5	50	54.8	105%	110%	4.3	
Toluene	50.9	50	52.3	102%	105%	2.7	
1,1,1,2-Tetracholorethane	43.7	50	48.6	87%	97%	10.6	
Chlorobenzene	52.7	50	53.4	105%	107%	1.3	
Ethylbenzene	51.1	50	51.3	102%	103%	0.4	
o-Xylene	48.5	50	48.4	97%	97%	0.2	
n-Propylbenzene	51.4	50	49.2	103%	98%	4.4	
Dibromofluoromethane (surrogate)	112%		119%				
1,2-Dichloroethane-d4 (surrogate)	100%		102%				
Toluene-d8 (surrogate)	97%		101%				
4-bromofluorobenzene (surrogate)	88%		87%				
Analysis Date/Time:	4-30-24/23:56		5-1-24/00:12				
Analyst Initials	tjg		tjg				

Matrix Spike/Matrix Spike Dup:	Sample Results (ug/L)	MS Res (ug/L)	MSD Res (ug/L)	Spk Conc (ug/L)	MS Rec	MSD Rec	% D	Flag
Vinyl Chloride	0.0	50.7	48.6	50	101%	97%	4.2	
1,1-Dichloroethene	0.0	52.5	49.4	50	105%	99%	6.1	
trans-1,2-Dichloroethene	0.0	51.5	50.9	50	103%	102%	1.2	
Methyl-tert-butyl-ether	0.0	52.7	52.8	50	105%	106%	0.2	
1,1-Dichloroethane	0.0	50.7	51.7	50	101%	103%	2.0	
cis-1,2-Dichloroethene	0.0	53.9	55.0	50	108%	110%	2.0	
Chloroform	0.0	56.7	53.2	50	113%	106%	6.4	
1,1,1-Trichloroethane	0.0	54.4	50.3	50	109%	101%	7.8	
Benzene	0.0	54.1	51.7	50	108%	103%	4.5	
Trichloroethene	0.0	55.9	52.9	50	112%	106%	5.5	
Toluene	0.0	55.1	51.6	50	110%	103%	6.6	
1,1,1,2-Tetracholorethane	0.0	46.0	45.2	50	92%	90%	1.8	
Chlorobenzene	0.0	54.8	54.3	50	110%	109%	0.9	
Ethylbenzene	0.0	53.1	51.9	50	106%	104%	2.3	
o-Xylene	0.0	50.8	50.1	50	102%	100%	1.4	
n-Propylbenzene	0.0	53.0	52.4	50	106%	105%	1.1	
Dibromofluoromethane (surrogate)	104%	111%	115%					
1,2-Dichloroethane-d4 (surrogate)	99%	106%	102%					
Toluene-d8 (surrogate)	93%	100%	99%					
4-bromofluorobenzene (surrogate)	97%	92%	90%					
Analysis Date/Time:	5-1-24/06:13	5-1-24/07:00	5-1-24/07:15					
Analyst Initials	tjg	tjg	tjg					
Originial Sample Number Spiked:	24-5377							

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EPA 6010B Metals Quality Control Data

ENVision Batch Number: 043024icp

Method Blank (MB):	MB Results (mg/L)	Rep Lim (mg/L)	Flag
Chromium, total	< 0.01	0.01	
Lead, total	< 0.01	0.01	
Analysis Date/Time:	4-30-24/13:25		
Analyst Initials:	gjd		

Laboratory Control Standard (LCS):	LCS Results(mg/L)	LCS Conc(mg/L)	% Rec	Flag
Chromium, total	0.50	0.50	100	
Lead, total	0.49	0.50	98	
Analysis Date/Time:	4-30-24/13:22			
Analyst Initials:	gjd			

Matrix Spike/Matrix Spike Dup:	Sample Results (mg/L)	MS Res (mg/L)	MSD Res (mg/L)	Spk Conc (ug/L)	MS Rec	MSD Rec	% D	Flag
Chromium, total	0	0.59	0.60	0.50	118%	120%	1.681	
Lead, total	0	0.56	0.57	0.50	112%	114%	1.77	
Analysis Date/Time:	4-30-24/15:49	4-30-24/15:52	4-30-24/15:55					
Analyst Initials:	gjd	gjd	gjd					
Originial Sample Number Spiked:	24-5377	24-5377	24-5377					

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EPA 6010B Metals Quality Control Data

ENVision Batch Number: 043024icp

Method Blank (MB):	MB Results (mg/L)	Rep Lim (mg/L)	Flag
Chromium, dissolved	< 0.01	0.01	
Lead, dissolved	< 0.01	0.01	
Analysis Date/Time:	4-30-24/13:14		
Analyst Initials:	gjd		

Laboratory Control Standard (LCS):	LCS Results(mg/L)	LCS Conc(mg/L)	% Rec	Flag
Chromium, dissolved	0.52	0.50	104	
Lead, dissolved	0.53	0.50	106	
Analysis Date/Time:	4-30-24/13:11			
Analyst Initials:	gjd			

Matrix Spike/Matrix Spike Dup:	Sample Results (mg/L)	MS Res (mg/L)	MSD Res (mg/L)	Spk Conc (ug/L)	MS Rec	MSD Rec	% D	Flag
Chromium, dissolved	0	0.28	0.26	0.25	112%	104%	7.407	
Lead, dissolved	0	0.23	0.22	0.25	92%	88%	4.444	
Analysis Date/Time:	4-30-24/15:58	4-30-24/16:01	4-30-24/16:04					
Analyst Initials:	gjd	gjd	gjd					
Originial Sample Number Spiked:	24-5377	24-5377	24-5377					

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Flag Number	Comments
1	Reported value is below the reporting limit but above the MDL.
2	Due to analyte concentration in the sample spiked, MS/MSD recoveries are outside established limits.

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CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: SES	Invoice Address:
Report Address:	Project Name: 2024-0065
Report To: Galen Howard	Lab Contact:
Phone:	Sampled by: TER / LK
Fax:	P.O. Number:
Desired TAT: (Please Circle One) 1-day 2-day 3-day Std (5-7 bus. days)	QA/QC Required: (circle if applicable) Level III Level IV

REQUESTED PARAMETERS

Lead

Add'l TCLP Pb ONLY 4/30/24

Sample Integrity:

Cooler Temp: 4 °C (Circle)
Samples on Ice? Yes No
Samples Intact? Yes No
Custody Seal: Yes No
ENVision provided bottles: Yes No
VOC vials free of head-space: Yes No N/A
pH checked? Yes No N/A
Method 5035 collection used? Yes No
5035 samples received within 48 hr of Collection? Yes No

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	Lead	Add'l TCLP Pb ONLY 4/30/24	HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
SB1 0-1	4/22/24	9:44	G	Soil	X							1	24-5166
SB2 0-1 (MS/MSD)		1:01										3	5167
SB3 0-1		1:04										1	5168
SB4 0-1		1:36											5169
SB5 0-1		12:30											5170
SB5 0-1 FD		12:30											5171
SB6 0-1		3:39											5172
SB7 0-1		1:40											5173
SB8 0-1		11:47				X							5174
SB9 0-1		11:43											5175
SB10 0-1		1:50											5176

Comments: Results in dry weight - Brown Fields pricing — more samples to come - (6 Highest Lead in all soil Samples please analyze for TCLP Lead)

Relinquished by:	Date	Time	Received by:	Date	Time
	4/24/24	1100	SPT	4/24/24	1100

ENVision Proj#: 2024-847 Page 2 of 9

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: SES	Invoice Address:
Report Address:	Project Name: 2024-00455
Report To: Glen Howard	Lab Contact:
Phone:	Sampled by: TER / LK
Fax:	P.O. Number:
Desired TAT: (Please Circle One) 1-day 2-day 3-day Std (5-7 bus. days)	QA/QC Required: (circle if applicable) Level III (Level IV)

Sample Integrity:
Cooler Temp: 4 °C (Circle)
Samples on Ice? (Yes) No
Samples Intact? (Yes) No
Custody Seal: (Yes) No
ENVision provided bottles: (Yes) No
VOC vials free of head-space: Yes No (N/A)
pH checked? Yes No (N/A)
Method 5035 collection used? (Yes) No
5035 samples received within 48 hr of Collection? (Yes) No

REQUESTED PARAMETERS

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	Lead	Add'l TCLP Pb Cert 4/30/24	HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
SB 11 0-1	4/22/24	11:05	G	Soil	X							1	24-5177
SB 12 0-1		2:00											5178
SB 13 0-1		11:00											5179
SB 14 0-1		10:52											5180
SB 15 0-1		9:49											5181
SB 15 2-4		9:49											5182
SB 16 0-1		10:13				X							5183
SB 16 2-4		10:13											5184
SB 17 0-1		10:14											5185
SB 17 2-4		10:14											5186
SB 18 0-1		10:23											5187

Comments: Results in dry weight
Brown Fields pricing - more samples to come - (6 Highest Lead in all soil samples please analyze for TCLP Lead

Relinquished by:	Date	Time	Received by:	Date	Time
	4/24/24	1100	SGT	4/24/24	1100

ENVision Proj#: 2024-847 Page 3 of 4

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: SES	Invoice Address:
Report Address:	Project Name: 2024-0085
Report To: Galen Howard	Lab Contact:
Phone:	Sampled by: TEK/LK
Fax:	P.O. Number:
Desired TAT: (Please Circle One) 1-day 2-day 3-day Std (5-7 bus. days)	QA/QC Required: (circle if applicable) Level III Level IV

Sample Integrity:
Cooler Temp: 4 °C (Circle)
Samples on Ice? Yes No
Samples Intact? Yes No
Custody Seal: Yes No
ENVision provided bottles: Yes No
VOC vials free of head-space: Yes No N/A
pH checked? Yes No N/A
Method 5035 collection used? Yes No
5035 samples received within 48 hr of Collection? Yes No

REQUESTED PARAMETERS

Lead

Add: TCLP Pb ONE 4/30/24

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	Lead	Add: TCLP Pb ONE 4/30/24	HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
SB 18 2-4	4/22/24	10:23	G	Soil	X	X						1	24-5188
SB 19 0-1		10:30											5189
SB 19 2-4		10:30											5190
SB 20 0-1		10:40											5191
SB 20 2-4		10:40											5192
SB 21 0-1	4/23/24	11:25											5193
SB 21 2-4		11:25											5194
SB 22 0-1	4/22/24	10:47											5195
SB 22 2-4		10:47											5196
SB 23 0-1		2:05											5197
SB 23 2-4		2:05											5198

Comments: Results in dry weight Brown Fields Pricing - more samples to come - (6 Highest lead in all Soil Samples please analyze for TCLP Lead)

Relinquished by:	Date	Time	Received by:	Date	Time
	4/24/24	1100	SDF	4/24/24	1100

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CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: SES	Invoice Address:
Report Address:	Project Name: 20240045
Report To: Glen Howard	Lab Contact:
Phone:	Sampled by: TER/LK
Fax:	P.O. Number:
Desired TAT: (Please Circle One) 1-day 2-day 3-day Std (5-7 bus. days)	QA/QC Required: (circle if applicable) Level III Level IV

Sample Integrity:
Cooler Temp: 4 °C (Circle)
Samples on Ice? Yes No
Samples Intact? Yes No
Custody Seal: Yes No
ENVision provided bottles: Yes No
VOC vials free of head-space: Yes No N/A
pH checked? Yes No N/A
Method 5035 collection used? Yes No
5035 samples received within 48 hr of Collection? Yes No

REQUESTED PARAMETERS

Lead

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix		HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
SB240-1	4/22/24	3:08	G	Soil	X						1	24-5199
SB242-4		3:08										5200
SB240-1 FD		3:08										5201
SB250-1 (MS/MSD)		3:16									3	5202
SB252-4		3:16									1	5203
SB260-1		1:46										5204
SB262-4		1:46										5205
SB270-1		3:24									1	5206
SB272-4		3:24										5207
SB280-1	4/23/24	7:58										5208
SB282-4		7:58										5209

Comments: Results in dry weight Brownfield Pricing - more samples to come - (6 Highest lead in all soil samples please analyze for TCLP Lead

Relinquished by:	Date	Time	Received by:	Date	Time
	4/24/24	1000	SDT	4/24/24	1100

ENVision Proj# 2024-847 Page 5 of 9

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: SES	Invoice Address:
Report Address:	Project Name: 2024-0065
Report To: Glen Howard	Lab Contact:
Phone:	Sampled by: TER/LK
Fax:	P.O. Number:
Desired TAT: (Please Circle One) 1-day 2-day 3-day Std (5-7 bus. days)	QA/QC Required: (circle if applicable) Level III Level IV

REQUESTED PARAMETERS

Sample Integrity:
Cooler Temp: 4 °C (Circle)
Samples on Ice? (Yes) No
Samples Intact? (Yes) No
Custody Seal: (Yes) No
ENVision provided bottles: (Yes) No
VOC vials free of head-space: Yes No (N/A)
pH checked? Yes No (N/A)
Method 5035 collection used? (Yes) No
5035 samples received within 48 hr of Collection? (Yes) No

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	Lead	Add: TCLP Pb ave 4/30/24	HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
SB 29 0-1	4/22/24	4:10	G	Soil	X							1	24-5210
SB 29 2-4		4:10											5211
SB 30 0-1		4:16				X							5212
SB 30 2-4		4:16											5213
SB 31 0-1		4:21											5214
SB 31 2-4		4:21											5215
SB 32 0-1		4:26											5216
SB 32 2-4		4:26											5217
SB 33 0-1	4/23/24	4:06											5218
SB 33 2-4		4:06											5219
SB 34 0-1		4:30											5220
SB 34 2-4		4:30											5221

Comments: Results in dry weight - more samples to Come - (6 highest lead in all soil samples please analyze for TCLP Lead) Brown Field Pricing

Relinquished by:	Date	Time	Received by:	Date	Time
	4/24/24	1100	SGF	4/24/24	1100

ENVision Proj#: 2024-847 Page 6 of 9

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: SES	Invoice Address:
Report Address:	Project Name: 2024-0065
Report To: Galen Howard	Lab Contact:
Phone:	Sampled by: TER/LK
Fax:	P.O. Number:
Desired TAT: (Please Circle One) 1-day 2-day 3-day Std (5-7 bus. days)	QA/QC Required: (circle if applicable) Level III (Level IV)

REQUESTED PARAMETERS

Lead

Sample Integrity:
Cooler Temp: 4 °C (Circle)
Samples on Ice? (Yes) No
Samples Intact? (Yes) No
Custody Seal: (Yes) No
ENVision provided bottles: (Yes) No
VOC vials free of head-space: Yes No (N/A)
pH checked? Yes No (N/A)
Method 5035 collection used? (Yes) No
5035 samples received within 48 hr of Collection? (Yes) No

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	Lead	HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
SB 35 0-1	4/23/24	8:42	G	Soil	X						1	24-[illegible]5222
SB 35 2-4		8:42										5223
SB 36 0-1		2:33										5224
SB 36 2-4		2:37										5225
SB 37 0-1		2:28										5226
SB 37 0-1 FD		2:28										5227
SB 37 2-4 (MS/MSD)		2:31										5228
SB 38 0-1		1:59										5229
SB 38 2-4		2:06										5230
SB 39 0-1		1:48										5231
SB 39 2-4		1:51										5232
SB 40 0-1		1:37										5233

Comments: Results in dry weight - More samples to come - (6 Highest lead in all soil samples please analyze for TCLP Lead)
Brown Field Pricing

Relinquished by:	Date	Time	Received by:	Date	Time
	4/24/24	1100	SGT	4/24/24	1100

ENVision Proj#: 2024-847 Page 1 of 9

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: SES	Invoice Address:
Report Address:	Project Name: 2024 - 0085
Report To: Glen Howard	Lab Contact:
Phone:	Sampled by: TER / LK
Fax:	P.O. Number:
Desired TAT: (Please Circle One) 1-day 2-day 3-day Std (5-7 bus. days)	QA/QC Required: (circle if applicable) Level III (Level IV)

REQUESTED PARAMETERS

Lead

Add: TCLP Pb CAC 4/30/24

Sample Integrity:
Cooler Temp: 4 °C (Circle)
Samples on Ice? (Yes) No
Samples Intact? (Yes) No
Custody Seal: (Yes) No
ENVision provided bottles: (Yes) No
VOC vials free of head-space: Yes No (N/A)
pH checked? Yes No (N/A)
Method 5035 collection used? (Yes) No
5035 samples received within 48 hr of Collection? (Yes) No

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix							HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
SB-40 4-6	4/23/24	1:46	G	Soil	X			X								1	24-8234
SB 41 0-1		2:08															58235
SB 41 4-6		2:24															58236
SB 42 0-1		1:07															58237
SB 42 4-6		1:11															58238
SB 43 0-1		1:17															58239
SB 43 4-6		1:25															58240
SB 44 0-1		12:56															58241
SB 44 ~~4-6~~ 6		1:01															58242
SB 45 0-1		9:20															58243
SB 45 10-12		9:20															58244

Comments: Results in dry weight Brownfield Priority - more samples to come - (6 Highest lead in all soil please analyze for TCLP Lead)

Relinquished by:	Date	Time	Received by:	Date	Time
	4/24/24	1400	SGT	4/24/24	1100

ENVision Proj#: 2024-847 Page 6 of 9

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: SES	Invoice Address:
Report Address:	Project Name: 2024-0085
Report To: Glen Howard	Lab Contact:
Phone:	Sampled by: TER / LK
Fax:	P.O. Number:
Desired TAT: (Please Circle One) 1-day 2-day 3-day Std (5-7 bus. days)	QA/QC Required: (circle if applicable) Level III Level IV

REQUESTED PARAMETERS

Lead

Add: TCLP Pb 6AC 4/30/24

Sample Integrity:
Cooler Temp: 4 °C (Circle)
Samples on Ice? (Yes) No
Samples Intact? (Yes) No
Custody Seal: (Yes) No
ENVision provided bottles: (Yes) No
VOC vials free of head-space: Yes No (N/A)
pH checked? Yes No (N/A)
Method 5035 collection used? (Yes) No
5035 samples received within 48 hr of Collection? (Yes) No

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
SB 45 0-1 FD	4/23/24	9:20	G	Soil	X					1	24-58245
SB 46 0-1 (MS/MSD)	↓	11:56	↓	↓	↓					3	58246
SB 46 4-6		12:03								1	58247
SB 47 0-1		9:06								↓	58248
SB 47 10-12	↓	9:06									58249
SB 48 0-1	4/22/24	2:44									58250
SB 48 10-12	↓	2:53									58251
SB 49 0-1	4/23/24	11:43									58252
SB 49 4-6		11:47									58253
SB 50 0-1		11:34									58254
SB 50 ~~2-4~~	↓	11:34	↓	↓	↓	X				↓	58255

Comments: Results in dry weight
Brown Fields Pricing - more samples to come (6 Highest lead in all soil samples please analyze for TCLP Lead)

Relinquished by:	Date	Time	Received by:	Date	Time
	4/24/24	1100	SP	4/24/24	1100

ENVision Proj#: 2024-847 Page 9 of 9

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: SES	Invoice Address:
Report Address:	Project Name: 2024-0085
Report To: Glen Howard	Lab Contact:
Phone:	Sampled by:
Fax:	P.O. Number:
Desired TAT: (Please Circle One) **1-day 2-day 3-day Std (5-7 bus. days)**	QA/QC Required: (circle if applicable) **Level III** **Level IV**

REQUESTED PARAMETERS

Sample Integrity:
Cooler Temp: 4 °C (Circle)
Samples on Ice? (Yes) No
Samples Intact? (Yes) No
Custody Seal: (Yes) No
ENVision provided bottles: (Yes) No
VOC vials free of head-space: Yes No (N/A)
pH checked? Yes No (N/A)
Method 5035 collection used? (Yes) No
5035 samples received within 48 hr of Collection? (Yes) No

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	VOC	SVOC	RCRA 8	Phenol				HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
Drum	4/23/24	3:20PM	G	Soil	X	X	X	X									6	24-525L

Comments: Brownfield Pricing

Relinquished by:	Date	Time	Received by:	Date	Time
	4/24/24	1100	SPT	4/24/24	1100

ENVision Proj#: 2024-864 Page 1 of 1

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: JES	Invoice Address:
Report Address:	Project Name: 2024-0045
Report To: Glen Howard	Lab Contact:
Phone:	Sampled by: TER/LK
Fax:	P.O. Number:
Desired TAT: (Please Circle One) 1-day 2-day 3-day Std (5-7 bus. days)	QA/QC Required: (circle if applicable) Level III Level IV

Sample Integrity:

Cooler Temp: 2 °C (Circle)
Samples on Ice? Yes No
Samples Intact? Yes No
Custody Seal: Yes No
ENVision provided bottles: Yes No
VOC vials free of head-space: Yes No N/A
pH checked? Yes No N/A
Method 5035 collection used? Yes No
5035 samples received within 48 hr of Collection? Yes No

REQUESTED PARAMETERS

VOC 8260 / hex chromium 7196 / Lead + chromium 3 total / Lead + chromium dissolved

Please indicate number of containers per preservative below

adapenGH-cmc 5/2/24

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
~~SB 6~~	4/25/24		G	water	x	x	x	x			
SB 8		11:15									24-5374
SB 11		1:58									5375
SB 15		10:23									5376
SB 34 (ms/msd)		12:21			6	3					5377
SB 45		1:35									5378
SB 46 FD		1:35									5379
Trip Blank	Lab Prepped				2						5380

Comments: Brownfield Project - add to soil Report

Relinquished by:	Date	Time	Received by:	Date	Time
	4/26/24	1037	SGT	4/26/24	1037

SITE INVESTIGATION REPORT

APPENDIX C. HISTORICAL SOIL TESTING RESULTS (2022)

Former Stout Battery
3005 West 8th Street
Muncie, Delaware County, Indiana 47302
BFD #4060050
USEPA CERCLA Section 128(a) Funding
SES Project No.: 2024-0085

Table C1. Screening for VOCs, PAHs, RCRA 8 Metals, and Hexavalent Chromium in Soil
3005 West 8th Street, Muncie, Delaware County, Indiana 47302

Sample ID (depth interval)	Sample Date	Screening Parameters		Remediation Screening Levels (mg/kg)	
		Parameter	Concentration (mg/kg)	Residential Direct Contact	Migration to Groundwater
GP-2 (0-6")	6/9/2022	No PAHs Detected			
		Detected RCRA Metals			
		Barium	80	21000	1700
		Chromium	9.5		1000000
		Lead	22	400	270
		Hexavalent Chromium	<0.0992	4.2	0.14
GP-2 (3-4')	6/9/2022	No VOCs Detected			
		No PAHs Detected			
		Detected RCRA Metals			
		Barium	42	21000	1700
		Chromium	11		1000000
		Lead	6.7	400	270
		Hexavalent Chromium	<0.0953	4.2	0.14
GP-7 (0-6")	6/7/2022	No PAHs Detected			
		Detected RCRA Metals			
		Barium	33	21000	1700
		Chromium	24		1000000
		Lead	12	400	270
		Hexavalent Chromium	<0.0930	4.2	0.14
GP-7 (4-6')	6/7/2022	No VOCs Detected			
		No PAHs Detected			
		Detected RCRA Metals			
		Barium	15	21000	1700
		Chromium	19		1000000
		Hexavalent Chromium	<0.0860	4.2	0.14
GP-9 (0-6")	6/7/2022	No PAHs Detected			
		Detected RCRA Metals			
		Barium	53	21000	1700
		Chromium	12		1000000
		Lead	36	400	270
		Hexavalent Chromium	<0.0888	4.2	0.14
GP-9 (6-8')	6/7/2022	No VOCs Detected			
		No PAHs Detected			
		Detected RCRA Metals			
		Barium	8.6	21000	1700
		Chromium	5.9		1000000
		Lead	2.7	400	270
		Hexavalent Chromium	<0.0857	4.2	0.14
GP-14 (0-6")	6/8/2022	No PAHs Detected			
		Detected RCRA Metals			
		Barium	91	21000	1700
		Chromium	18		1000000
		Lead	**429**	400	270
		Hexavalent Chromium	<0.0943	4.2	0.14
GP-14 (2-4')	6/8/2022	No VOCs Detected			
		No PAHs Detected			
		Detected RCRA Metals			
		Barium	21	21000	1700
		Chromium	7.3		1000000
		Lead	2.2	400	270
		Hexavalent Chromium	<0.0846	4.2	0.14
GP-19 (0-6")	6/7/2022	No PAHs Detected			
		Detected RCRA Metals			
		Barium	63	21000	1700
		Chromium	14		1000000
		Lead	**1220**	400	270
		Hexavalent Chromium	<0.0890	4.2	0.14
GP-19 (6-8')	6/7/2022	No VOCs Detected			
		No PAHs Detected			
		Detected RCRA Metals			
		Barium	28	21000	1700
		Chromium	14		1000000
		Lead	3.3	400	270
		Hexavalent Chromium	<0.0850	4.2	0.14
GP-26 (0-6")	6/7/2022	No PAHs Detected			
		Detected RCRA Metals			
		Barium	53	21000	1700
		Chromium	11		1000000
		Lead	**916**	400	270
		Hexavalent Chromium	<0.0872	4.2	0.14

Table C1 Continued. Screening for VOCs, PAHs, RCRA 8 Metals, and Hexavalent Chromium in Soil
3005 West 8th Street, Muncie, Delaware County, Indiana 47302

Sample ID (depth interval)	Sample Date	Screening Parameters		Remediation Screening Levels (mg/kg)	
		Parameter	Concentration (mg/kg)	Residential Direct Contact	Migration to Groundwater
GP-26 (10-12')	6/7/2022	No VOCs Detected			
		No PAHs Detected			
		Detected RCRA Metals			
		Barium	27	21000	1700
		Chromium	9.7		1000000
		Lead	<2	400	270
		Hexavalent Chromium	<0.0852	4.2	0.14
GP-27 (0-6")	6/8/2022	No PAHs Detected			
		Detected RCRA Metals			
		Barium	38	21000	1700
		Chromium	10		1000000
		Lead	**3730**	400	270
		Hexavalent Chromium	<0.0828	4.2	0.14
GP-27 (2-4')	6/8/2022	No VOCs Detected			
		No PAHs Detected			
		Detected RCRA Metals			
		Barium	32	21000	1700
		Chromium	8.6		1000000
		Lead	<2	400	270
		Hexavalent Chromium	<0.0887	4.2	0.14
GP-30 (0-6")	6/8/2022	No PAHs Detected			
		Detected RCRA Metals			
		Barium	63	21000	1700
		Chromium	12		1000000
		Lead	99	400	270
		Hexavalent Chromium	<0.101	4.2	0.14
GP-30 (2-4')	6/8/2022	No VOCs Detected			
		No PAHs Detected			
		Detected RCRA Metals			
		Barium	74	21000	1700
		Chromium	16		1000000
		Lead	14	400	270
		Hexavalent Chromium	<0.106	4.2	0.14
GP-31 (0-6")	6/7/2022	No PAHs Detected			
		Detected RCRA Metals			
		Barium	66	21000	1700
		Chromium	13		1000000
		Lead	**1470**	400	270
		Hexavalent Chromium	<0.110	4.2	0.14
GP-31 (10-12')	6/7/2022	Detected VOCs			
		Trichloroethene	**0.121**	5.7	0.036
		No PAHs Detected			
		Detected RCRA Metals			
		Barium	24	21000	1700
		Chromium	7.5		1000000
		Lead	5.4	400	270
		Hexavalent Chromium	<0.0851	4.2	0.14
GP-33 (0-6")	6/8/2022	No PAHs Detected			
		Detected RCRA Metals			
		Barium	130	21000	1700
		Chromium	20		1000000
		Lead	384	400	270
		Hexavalent Chromium	<0.0949	4.2	0.14
GP-33 (2-4')	6/8/2022	No VOCs Detected			
		No PAHs Detected			
		Detected RCRA Metals			
		Barium	28	21000	1700
		Chromium	11		1000000
		Lead	6.0	400	270
		Hexavalent Chromium	<0.0908	4.2	0.14
GP-36 (0-6")	6/7/2022	No PAHs Detected			
		Detected RCRA Metals			
		Barium	51	21000	1700
		Chromium	12		1000000
		Lead	51	400	270
		Hexavalent Chromium	<0.0892	4.2	0.14
GP-36 (6-8')	6/7/2022	No VOCs Detected			
		No PAHs Detected			
		Detected RCRA Metals			
		Barium	14	21000	1700
		Chromium	6.2		1000000
		Lead	<2	400	270
		Hexavalent Chromium	<0.0884	4.2	0.14

Table C1 Continued. Screening for VOCs, PAHs, RCRA 8 Metals, and Hexavalent Chromium in Soil
3005 West 8th Street, Muncie, Delaware County, Indiana 47302

Sample ID (depth interval)	Sample Date	Screening Parameters		Remediation Screening Levels (mg/kg)	
		Parameter	Concentration (mg/kg)	Residential Direct Contact	Migration to Groundwater
Quality Assurance Sample					
GP-40 (10-12') Duplicate GP-31 (10-12')	6/7/2022	Detected VOCs Trichloroethene No PAHs Detected Detected RCRA Metals Barium Chromium Lead Hexavalent Chromium	**0.0554** 29 11 <2 <0.0853	5.7 21000 400 4.2	0.036 1700 1000000 270 0.14
Trip Blank	6/9/2022	No VOCs Detected			
EB-Cutting Shoe	6/7/2022	No VOCs Detected No PAHs Detected No RCRA 8 Metals Detected Hexavalent Chromium	 0.32 ug/l		
EB- Hand Auger	6/7/2022	No VOCs Detected No PAHs Detected No RCRA 8 Metals Detected Hexavalent Chromium	 0.32 ug/l		
Extra sample volumes obtained at GP-19 (6-8'), GP-13 (2-4'), GP-38 (2-4') and GP-5 (3-4') to evaluate matrix effects.					

mg/kg: milligrams per kilogram (parts per million)
PAH: polycyclic aromatic hydrocarbons
VOC: volatile organic compound

SITE INVESTIGATION REPORT

APPENDIX D. PROGRAM PROVIDED SOIL LEAD GUIDANCE

Former Stout Battery
3005 West 8th Street
Muncie, Delaware County, Indiana 47302
BFD #4060050
USEPA CERCLA Section 128(a) Funding
SES Project No.: 2024-0085

From:	Bebinger, Lori
To:	Michael, Tracey
Cc:	Glen Howard; ROBERTSON, ANDREA
Subject:	RE: Stout Battery
Date:	Thursday, May 30, 2024 9:56:11 AM
Attachments:	Residential Lead EPA Checklist.docx

******External Email******

Tracey,

I heard back from Camille with SRF who was able to contact Matt Hobbs with Indiana American Water. He came to the following conclusion about lead pipes in the vicinity of Stout Battery:

“The figures show the water main going by the property as AC (asbestos cement) pipe. Camille asked about any lead service lines, but they don’t believe the service lines are lead in this area. The only way to confirm would be to pothole but he felt secure in the assumption that there is not lead pipe present in the services.”

The response isn’t as conclusive as I hoped but I shared with risk and I think we can use the 200ppm for lead.

I filled out the EPA lead checklist (see attached).

Let me know your thoughts.

Lori Bebinger
Project Manager
Indiana Brownfields Program
Indiana Finance Authority
100 North Senate Ave., STE 1275
Indianapolis, IN 46204
(p): 317-234-8099
(e): LBebinger@ifa.in.gov

From: Michael, Tracey <TMichael@ifa.IN.gov>
Sent: Wednesday, May 29, 2024 1:31 PM
To: Bebinger, Lori <LBebinger@ifa.IN.gov>
Subject: RE: Stout Battery

Ok, I was just checking.

Residential Lead Screening Level Checklist

Site Information			
Site or study area name	Stout Battery		
Location (City/County, State, Zip)	3005 W 8th Street, Muncie, IN	SEMS EPA ID	
Current remedial pipeline phase	??	Does a site boundary exist in SEMS?	☐ Yes ☐ No
Briefly describe any removal or remedial work completed to date, including previous screening levels	1997 Lead contaminated soil removal (VFC# 38802983)		
Briefly describe the geographic scope of the study area that was considered while completing the checklist	The Site and immediate adjoining properties		

Checklist completed by:		
Name	Title and Organization	Date
Lori Bebinger	Project Manager	5.30.2024

Table 1: Evaluate Primary Data Sources in "Residential Lead GIS Screening Tool" [**Ctrl+Click here to access GIS tool**]

Yes	No	?	Question	Data Evaluation Notes	References
☐	☒	☐	Is the study area in a NAAQS nonattainment zone for lead?	While Muncie has a nonattainment zone, it is not near the subject site. Per EPA website, Delaware County (part): A portion of the City of Muncie, Indiana bounded to the North by West 26th Street/Hines Road, to the east by Cowan Road, to the south by West Fuson Road, and to West by a line running south from the eastern edge of Victory Temple's driveway to South Hoyt Avenue and then along South Hoyt Avenue.	EPA Green Book provides detailed information about NAAQS designations

☐	☒	☐	Does the EJScreen Lead Paint Index data demonstrate that a majority of the homes in the study area are at or above the 80th percentile?	I couldn't figure out how to make this tool only look for lead dust, but the site itself has no buildings so I do not think lead paint applies	EJ Screen Environmental Indicators Census Bureau housing data tools American Community Survey data
☐	☐	☒	Are you able to you select a screening level based on these primary data sources?	☐ Yes: 200 ppm ☐ Yes: 100 ppm ☐ No: continue with checklist *If yes, skip to the last page to summarize the weight of evidence and to document approval.*	

Table 2: Evaluate Secondary Data Sources on Potential Lead Exposures

Yes	No	?	Question	Data Evaluation Notes	References
☐	☒	☐	Are you aware of any potential soil exposures due to deteriorating exterior lead-based paint?	No buildings onsite	EPA Regional Lead-Based Paint Contacts
☐	☒	☐	Are there facilities in the study area with known lead violations?	Not an operating facility	Search for facilities to assess their compliance Check with state and local contacts for facilities not subject to EPA authorities
☐	☒	☐	Are you aware of lead pipes and/or lead service lines in the study area?	Reached out to Indiana American Water	Check with the state's drinking water program Check local drinking water quality annual reports
☐	☒	☐	Among the schools in the study area, are there drinking water reports or testing that indicate lead exposures?	No, checked SRF voluntary lead sampling program	The local public water department may have more information Check local drinking water quality annual reports EPA contacts for voluntary testing in schools
☐	☒	☐	Are you aware of any local cultural practices or community activities that may involve lead? (e.g., ceremonial uses, traditional medicines, pottery/jewelry making)		EPA resources on lead in cultural products
☐	☐	☐	Are there reports or data demonstrating elevated blood lead levels (BLL) in	2021-2022 Annual Lead Reports indicate some children have elevated BLL but it is difficult to discern where in the county	Local Health Department may have more information

			children in the study area? (If so, do reports indicate meaningful trends?)		CDC childhood lead poisoning prevention data and statistics

Table 3: Evaluate Mitigation Efforts

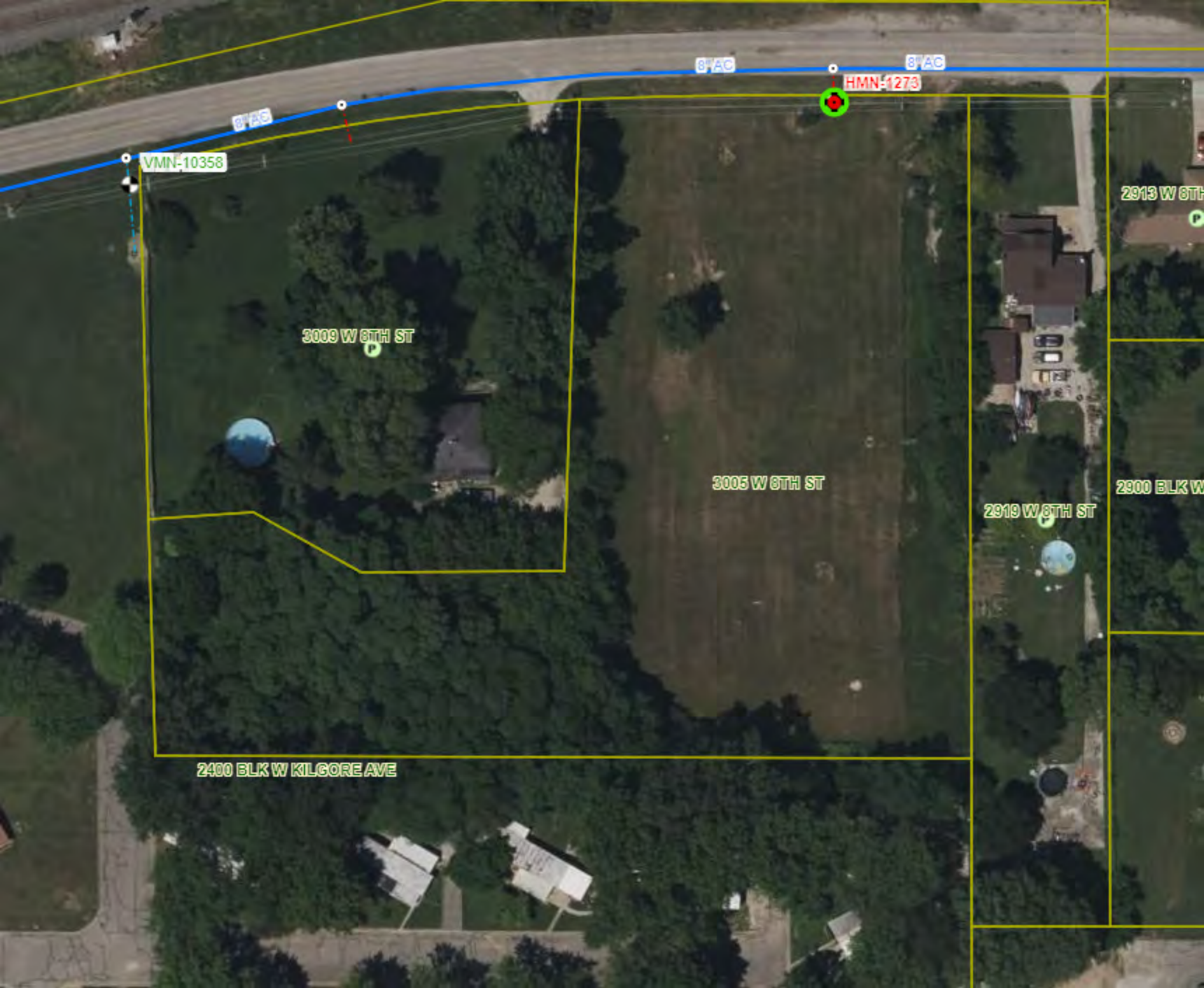
Yes	No	?	Question	Data Evaluation Notes	References
☐	☒	☐	Does the state, tribe, or territory have an EPA-authorized lead-based paint program?		Lead-based paint abatement programs RRP program information Identify authorized professionals EPA Regional Lead-Based Paint Contacts
☐	☒	☐	Is the study area covered by a lead ordinance or local lead laws? (e.g., real estate disclosure, dust hazard mitigation, building codes, permits or requirements for renovations)		Check with the state and local government authorities to find out about lead laws and ordinances specific to the area. Learn about federal lead laws and regulations Real estate disclosures about potential lead hazards
☐	☒	☐	Are you aware of whether older homes and/or schools have addressed lead-based paint through mitigation, encapsulation, or renovation?		Check with your regional Lead-Based Paint Coordinator, the local health department, education department, or school district(s) for this information. How to check for lead hazards in schools and childcare facilities
☐	☒	☐	Are you aware of whether lead service lines have been replaced or are scheduled to be replaced?		Check with the local public water department for more information
☐	☒	☐	Have there been other previous initiatives to directly address lead exposures in the study area? *(If yes, add notes on the outcome, including successes, challenges and gaps in effectiveness.)*	https://www.in.gov/ifa/lead-sampling-program/	Check with your state or local health department

Additional Notes
Document any additional findings not addressed by the items specified in the checklist, including any input from key points of contact in other lead programs in the region or other federal, state and local agencies.
IDEM Virtual File Cabinet: AI #7019 long history of operation of lead battery manufacturing, bankruptcy, assessment, BBL by health department, cleaning up in 1997. Attempt to redevelop the site in 2022, but developer backed out due to high lead levels. Originally a RCRA project that was closed in 2022.

Recommended Regional Screening Level		
Select the appropriate screening level and summarize the weight of evidence assembled above.	☒ 200 ppm	☐ 100 ppm
Based on the above checklist, lead onsite is from prior manufacturing of lead batteries and not from lead paint or leaded service water pipes.		

_____ _____

Approved By [Type Name, Title] **Date**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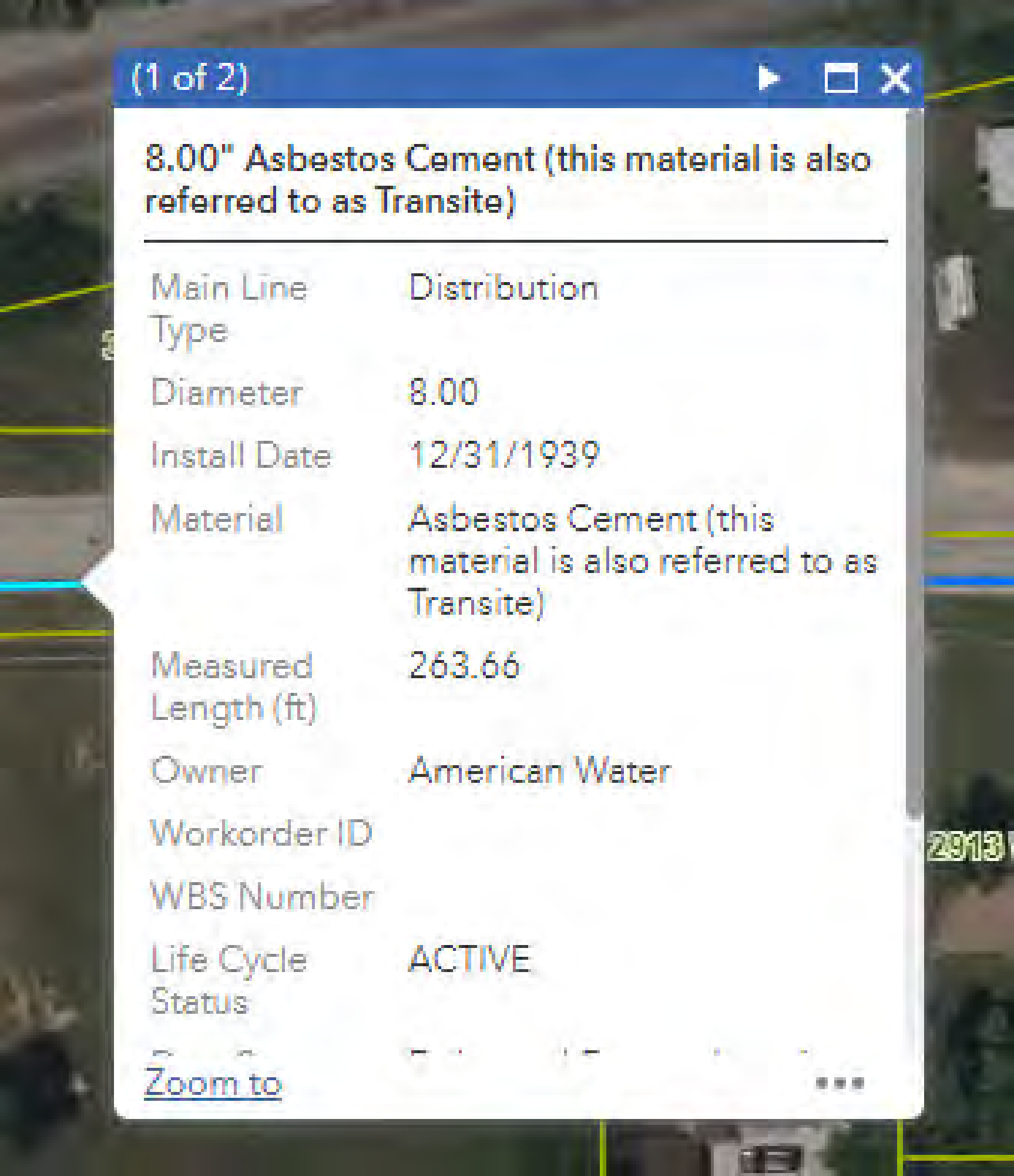
2400 BLK W KILGORE AVE


(1 of 2)
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Distribution
Diameter
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Install Date
12/31/1939
Material
Asbestos Cement (this material is also referred to as Transite)
Measured Length (ft)
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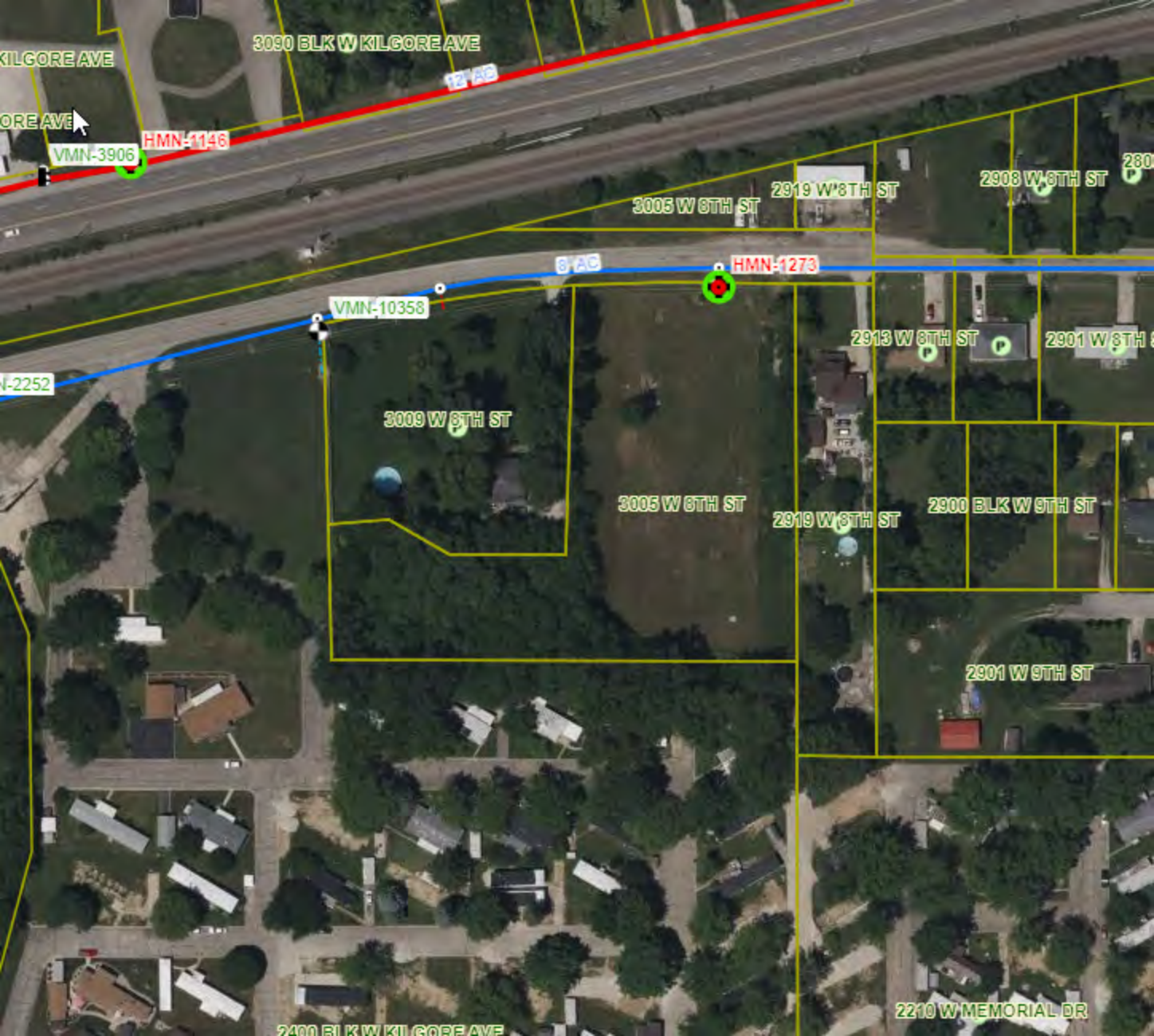
Owner
American Water
Workorder ID
WBS Number
Life Cycle Status
ACTIVE
Zoom to
2013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KILGORE AVE
ORE AVE
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HMN-1146
VMN-3906
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8" AC
HMN-1273
VMN-10358
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2901 W 8TH
I-2252
3009 W 8TH ST
3005 W 8TH ST
2919 W 8TH ST
2900 BLK W 9TH ST
2901 W 9TH ST
2210 W MEMORIAL DR
2400 BLK W KILGORE AVE