



ADDENDUM

Public Building Commission of Chicago | Richard J. Daley Center | 50 West Washington Street, Room 200 | Chicago, Illinois 60602 | (312) 744-3090 | pbochicago.com

ADDENDUM NO.: 01
PROJECT NAME: WPA Street Reconstruction (E 109th St., S Hoyne Ave., S Harding Ave., E 102nd St.)
PROJECT NO.: 22312, 22313, 22314, and 22329
CONTRACT NO.: C1616
DATE OF ISSUE: November 25, 2024

NOTICE OF CHANGES, MODIFICATIONS, OR CLARIFICATIONS TO CONTRACT DOCUMENTS

The following changes, modifications, or clarifications are hereby incorporated and made an integral part of the Contract Documents. Unless clearly expressed otherwise by this Addendum, all terms and conditions defined in the original Contract Documents shall continue in full force and effect and shall have the same meaning in this Addendum. Issued Addenda represent responses/clarifications to various inquiries. Contractors shall be responsible for including all associated labor/material costs in its bid. Drawings/specifications corresponding to inquiry responses will be issued with the Issue for Construction Documents, upon issuance of building permit.

ITEM NO. 1: CHANGE TO KEY DATES
None.

ITEM NO. 2: REVISIONS TO BOOK 1 – PBC INSTRUCTIONS TO BIDDERS

Change 1 Book 1 – INSERT Updated Schedule of Prices following Page 17 “(D) SCHEDULE OF PRICES”. *Line Item 821Z0860C LUMINAIRE, LED, COBRA HEAD, RESIDENTIAL* was added to EACH Project. Also, *Line Item 66900530 – SOIL DISPOSAL ANALYSIS* was REVISED for E. 109th Street.

NOTE: Updated Fillable Master Bid Form (Excel version) is available from [Cross Rhodes Reprographics](#) the [PBC Current Opportunities Page](#), as well as the PBC Alert communication..

ITEM NO. 3: REVISIONS TO BOOK 2 – PBC STANDARD TERMS AND CONDITIONS
None.

ITEM NO. 4: REVISIONS TO BOOK 3 – TECHNICAL SPECIFICATIONS

Change 1 Book 3 – INSERT EDI Environmental Report dated November 22, 2024 Soil Disposals Package for East 109th Street.

Change 2 Book 3 – INSERT EDI Environmental Report dated November 15, 2024 Soil Disposals Package for South Hoyne Avenue.

Change 3 Book 3 – INSERT EDI Environmental Report dated November 15, 2024 Soil Disposals Package for South Harding Avenue.

Change 4 Book 3 – INSERT EDI Environmental Report dated November 22, 2024 Soil Disposals Package for East 102nd Street.

ITEM NO. 5: REVISIONS TO DRAWINGS
None.

ITEM NO. 6: REQUESTS FOR INFORMATION
None.

This Addendum includes the following attached Specifications and/or Documents:

1. [Book 1 – Updated with REVISED Schedule of Prices](#)
2. [Updated Fillable Master Bid Form](#)
3. Environmental Design Inc. Environmental Report dated November 22, 2024 Soil Disposals Package for East 109th Street
4. Environmental Design Inc. Environmental Report dated November 15, 2024 Soil Disposals Package for South Hayne Avenue
5. Environmental Design Inc. Environmental Report dated November 15, 2024 Soil Disposals Package for South Harding Avenue
6. Environmental Design Inc. Environmental Report dated November 22, 2024 Soil Disposals Package for East 102nd Street

This Addendum includes the following attached Drawings:

1. None.

END OF ADDENDUM NO. 01



*Environmental Design
International inc.*

Chicago & Baltimore

33 W. Monroe St., Suite 1825
Chicago, IL 60603-5326

phone: 312-345-1400

fax: 312-345-0529

web: envdesigni.com

November 22, 2024

Ms. Grace Czyszczon
Delta Engineering Group, LLC
111 West Jackson Boulevard
Suite 910
Chicago, Illinois 60621

**Subject: Soil Disposal Package
Project Area 16
3200-3463 East 109th Street
Chicago, Illinois 60617**

Dear Ms. Czyszczon:

Environmental Design International inc. (EDI) is pleased to submit this Soil Disposal Package to Delta Engineering Group, LLC (Delta) in support of the Chicago Department of Transportation (CDOT) WPA Residential Streets project. The package addresses soil excavation activities that are planned for Project Area 16, which includes portions of East 109th Street, South Burley Avenue, South Buffalo Ave, South Mackinaw Avenue, South Green Avenue, and S Avenue O, in Chicago, Cook County, Illinois (Project Area). The Project Area is currently an asphalt roadway, approximately 1,360 feet in length, that extends east from the intersection of East 109th Street and the west branch of South Burley Avenue (3200-3204 East 109th Street) at the western limit to the east edge of the intersection of East 109th Street and South Avenue O (3365-3399 East 109th Street).

Project Background

EDI completed a Preliminary Environmental Site Assessment (PESA) site evaluation for the Project Area on July 3, 2024. The PESA evaluation of the Project Area identified a total of 29 sites, including the Project Area, that were assessed by evaluating environmental database listings, historical sources, and other records. The findings of the PESA evaluation were documented in the PESA Report, dated November 4, 2024, that was issued following a review by Huff & Huff (H&H), an environmental contractor that performs environmental functions on behalf of CDOT.

The PESA Report, dated November 4, 2024, identified the following sites with Recognized Environmental Conditions (RECs)/Potentially Impacted Properties (PIPs):

- **Site 25** – Wooded area, 10857-10859 South Burley Avenue
 - Historical presence of a scrap metal yard.
- **Site 27** – South Burley Avenue and East 109th Street, 3200 East 109th Street
 - Possible illegal dumping.
- **Site A** –Railroad tracks, west of the intersection of East 109th Street and the west branch of South Burley Avenue.
 - Historical and current presence of railroad tracks.

Based on the PESA findings, EDI recommended that additional site investigation activities be performed to determine if the identified RECs have impacted the subsurface soil at the site.

EDI completed a Preliminary Site Investigation (PSI) at the Project Area in accordance with the CDOT/H&H approved PSI Scope of Work (SOW), dated November 4, 2024. Field activities for the PSI were completed on November 5, 2024, during which soil samples were collected for chemical analysis. The resulting information from the completed PSI was used to develop this Soil Disposal package

PSI Sample Methodology

Based on the following two (2) factors, EDI collected soil characterization samples from the Project Area:

- Using the draft CDOT guidance of collecting one sample per 200 feet of roadway, EDI located four (4) soil borings along the length of the Project Area. The specific boring locations are presented below:
 - **Soil boring EDI-PESA16-001 will be the westmost soil boring location and will be located to determine any impact from Sites 25, 27 and A.**
 - **Soil boring EDI-PESA16-002 will be located just west of the intersection of East 109th Street and South Mackinaw Avenue.**
 - **Soil boring EDI-PESA16-003 will be located just west of the intersection of East 109th Street and South Green Bay Avenue.**
 - **Soil boring EDI-PESA16-004 will be located just west of the intersection of East 109th Street and South Avenue O.**

The approximate boring locations are presented in **Attachment 1** of this Soil Disposal package document. Copies of the Boring logs are included as **Attachment 2**.

- Based on the bottom elevations for the existing and proposed roadways from the construction drawings provided by Delta, on behalf of CDOT, EDI proposed that soil borings EDI-PESA16-001, EDI-PESA16-002, EDI-PESA16-003 and EDI-PESA16-004 be advanced to a maximum depth of five feet below ground surface (ft. bgs). EDI oversaw the installation of that soil boring on November 5, 2024.
- The recovered material was visually inspected for obvious signs of contamination to determine an appropriate sample location. The recovered material was also screened using a Photoionization Detector (PID) to identify portions of the material that may contain elevated levels of VOCs that would indicate impact from petroleum-based compounds.
- The analysis for the soil samples collected will be in accordance with the draft *CDOT Sampling Plan Guidance*, dated November 29, 2022, as follows:
 - The sample closest to Sites 25, 27 and A (EDI-PESA16-001) will be analyzed for Benzene, ethyl benzene, toluene, and total xylenes (BTEX), Volatile Organic Compounds (VOCs), semi volatile organic compounds (SVOCs)/Poly Nuclear Aromatic Compounds (PNAs), Resource Conservation and Recovery Act (RCRA) metals, pesticides, herbicides and pH. The sample will also be analyzed for
 - Landfill Characterization (Code R) as described in the *CDOT Sampling Plan Guidance* to further qualify the soil for disposal at a CCDD facility;
 - Toxicity Characteristic Leaching Procedure (TCLP) RCRA 8 metals to address any exceedances of CCDD Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill Material at Regulated Fill Operations (MAC) values for metals;
 - The other samples (EDI-PESA16-002 through EDI-PESA16-004) will be analyzed for SVOCs/PNAs, RCRA 8 metals, and pH.
- The collected soil samples were placed into clean, laboratory supplied containers.
- EDI transported the collected samples under typical Chain of Custody procedures to Sterling Laboratories of Des Plaines, IL (Sterling Labs), an IEPA Environmental Laboratory Accreditation Program (IL ELAP) certified laboratory. EDI requested that analytical results be provided within rush laboratory analysis of 2 to 3 business days following sample drop off.

Data Evaluation

Upon receipt of the laboratory data, EDI reviewed the analytical results. The laboratory data were evaluated against the respective CCDD MAC values and TACO Tier 1 Residential Soil Remediation Objectives (ROs) as applicable. The data summary table used to evaluate the analytical results is included as **Attachment 3** of this Soil Disposal package document.

This evaluation revealed the following:

- The one (1) soil sample (EDI-PESA16-001) analyzed for VOC compounds did not exceed the applicable MAC values and Residential TACO ROs.
- Of the four (4) soil samples analyzed for SVOCs and PNA compounds, none exceeded their applicable MAC values for City of Chicago and Metropolitan Statistical Area (MSA) counties, as well as applicable TACO ROs.
 - Three (3) soil samples (EDI-PESA16-001, EDI-PESA16-003, and EDI-PESA16-004) exceeded non-populated-area MAC values for PNAs (benzo(a)anthracene, benzo(a)pyrene, and dibenzo(a,h)anthracene). As such, soil in the vicinity of these borings cannot be disposed of at this category of CCDD facility.
 - One (1) soil sample (EDI-PESA16-003) exceeded populated non-MSA MAC values for PNAs (benzo(a)anthracene). As such, soil in the vicinity of this boring cannot be disposed of at this type of CCDD facility.
- The one (1) soil sample (EDI-PESA16-001) analyzed for polychlorinated biphenyls (PCBs) did not exceed the applicable MAC values and Residential TACO ROs.
- Of the four (4) samples analyzed for Resource Conservation and Recovery Act (RCRA) 8 metals, one (1) soil sample (EDI-PESA-001) exceeded lead for the MAC values and Residential Ingestion RO. In addition, the sample was analyzed using the Toxicity Characteristic Leaching Procedure (TCLP) for lead. The result for TCLP lead exceeded the Tiered Approach to Corrective Action Objectives (TACO) Class I Soil Component of the Groundwater Ingestion Exposure Route limit. As such, soil from the vicinity of this boring cannot be disposed of at a CCDD facility.
- No Code R physical analyses disqualified the soil from the Project Area from CCDD disposal based on the following:
 - Ignitability – passed.
 - Reactive Cyanide - passed.
 - Reactive Sulfide- passed.
 - Total Recoverable Phenolics - passed.
 - Free liquids - passed.
- Of the four (4) soil samples analyzed for pH, one (1) soil sample (EDI-PESA16-004) exceeds MAC values (6.25-9.0). As the pH of EDI-PESA16-004 is 9.02 pH units, soil in the vicinity of this boring cannot be disposed of at a CCDD facility.

Based on the information presented above, EDI concluded that soil recovered from within the vicinity of soil sample EDI-PESA-001 (the western extent of the East 109th Street Project Area) do not qualify for disposal at a CCDD facility due to lead levels. Soil excavated from within the vicinity of soil sample EDI-PESA16-002 and EDI-PESA16-003 of the East 109th Street Project Area are qualified for disposal only for disposal at City of Chicago or MSA county CCDD facilities. Soils excavated from within the vicinity of EDI-PESA16-004 are not qualified for disposal at any CCDD facility due to high pH.

Disposal Volume Determination

Delta provided EDI with a set of construction drawings to use in the preparation of the PESA evaluation of the Project Area. These drawings were used with Google Maps to determine how much material from the Project Area would be sent to what type of landfill. The relevant surface area was used along with the anticipated maximum excavation depth of 5 feet, a conversion factor of 27 cubic feet per cubic yard (cy), and a swell factor of 1.25 excavated cy versus in place cy, to determine estimated disposal volumes, which were rounded up to the nearest 10 cy.

As mentioned previously, soil from the vicinity of samples EDI-PESA16-001 and EDI-PESA16-004 were not qualified for disposal as CCDD material. EDI estimated the combined surface area for these locations to be 19,250.0 square feet (sf). This data is used with the criteria mentioned above to estimated that approximately **4,460.0 cy of excavated soil would need to be disposed at a Subtitle D landfill.**

Similarly, EDI determined that the area surrounding sample locations EDI-PESA16-002 and EDI-PESA16-003 covered an area of approximately 35,350.0 sf. Subsequently, EDI determined that approximately **8,190 cy of excavated soil could be taken to a City of Chicago or MSA county CCDD facility.**

A summary table presenting the soil volume calculations is presented as **Attachment 4** of this Soil Disposal package document.

Information from the data evaluation, the soil volume determination, Google Maps, and other CDOT data were used to complete the required IEPA LPC-663 form for the disposal of CCDD qualified material. A copy of the form is included as **Attachment 5** of this Soil Disposal package document. It should be noted that since this is a draft package, the form is sealed, but not signed.

Package Contents

EDI has prepared and included the following:

- A figure showing the Soil Boring/Soil Sample locations. The figure also shows how soil from different portions of the Project Area should be disposed of.
- The Boring Logs for EDI-PESA16-001 through EDI-PESA16-004.
- A Data Summary Table presenting the sample results compared to MAC limits.
- A Data Table showing the calculated Soil Disposal Volume.
- A completed IEPA LPC-663 Form.

- A partial copy of the Soil Analytical Report. Note the report contained data from a second Project Area that was sampled on the same date. The pages containing those data have been removed to avoid confusion. This partial copy of the Analytical Report is included as **Attachment 6** of this Soil Disposal package document.

Closing

We hope this Soil Disposal package meets with your approval. If you have any questions, please contact Garth Daley (708-203-8672) or Nicole Butkus (715-559-9252) for any assistance. Thank you.

Respectfully,

Environmental Design International inc.



Nicole J. Butkus
Assistant Project Manager



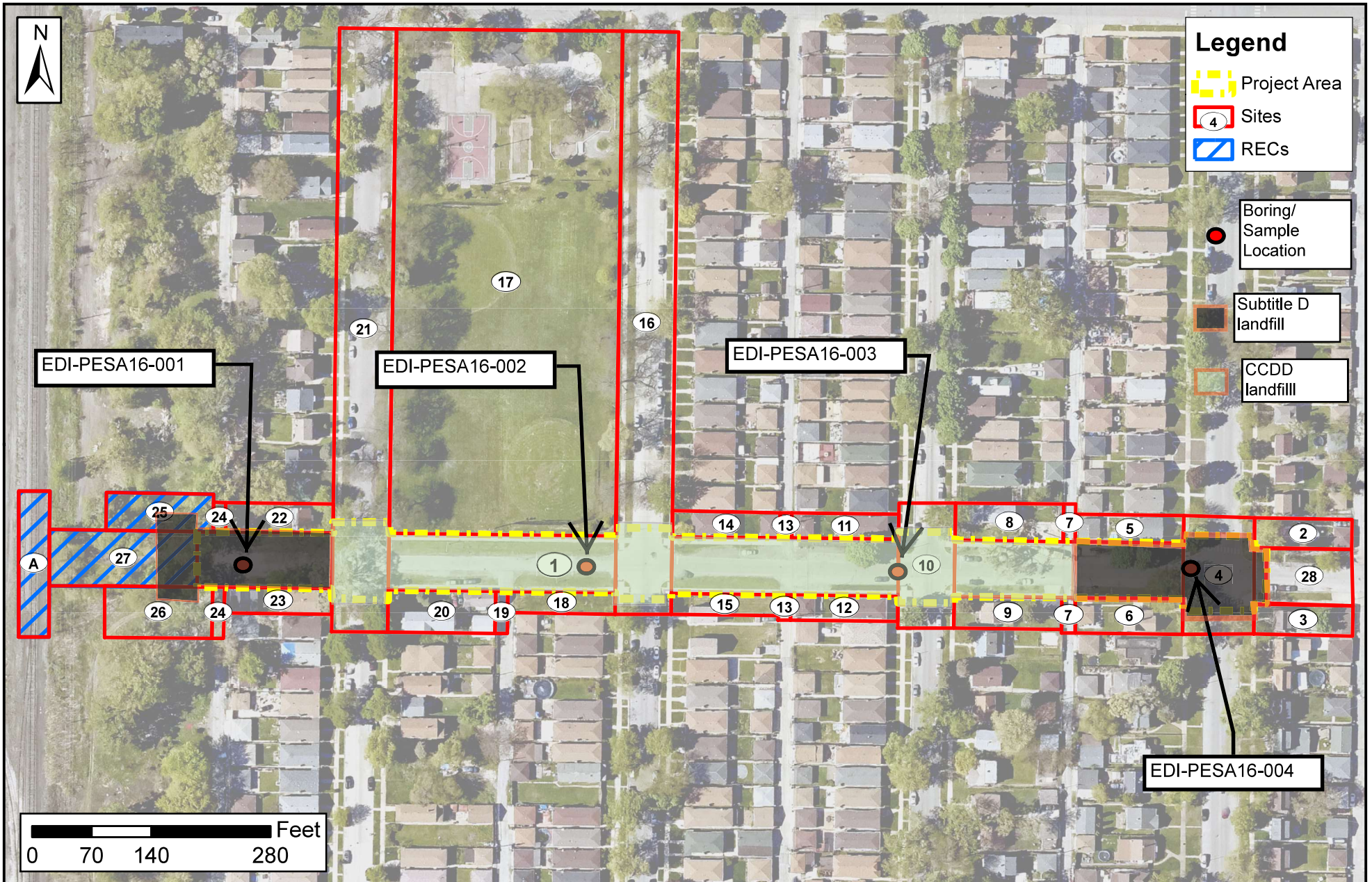
Garth A. Daley, P.E.
Senior Environmental Engineer

Enclosed

- Attachment 1 – Soil Boring/Soil Sample Location Figure
- Attachment 2 – Soil Boring Logs
- Attachment 3 – Data Summary Table – Sample Results
- Attachment 4 – Data Summary Table – Soil Volume Determination
- Attachment 5 – Completed LPC-663 Form
- Attachment 6 – Analytical Report – Partial Copy

ATTACHMENT 1
SOIL BORING/SOIL SAMPLE LOCATION FIGURE

DRAFT



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PREPARED FOR:



Figure 1

Soil Boring/Sample Location Figure
 Preliminary Environmental Site Assessment

3440-3230 East 109th Street, Chicago, IL 60617

PROJECT NO: 1827.006

DATE: 11/22/2024

DRAWN BY: GAD

APPROVED BY: NJB



*Environmental Design
International inc.*

Chicago & Baltimore

Ms. Grace Czystochon
Delta Engineering Group, LLC
Soil Disposal Package for Project Area 16
3200-3463 East 109th Street, Chicago, IL 60617
November 22, 2024

ATTACHMENT 2

BORING LOGS – EDI-PESA16-001 THROUGH EDI-PESA16-004

DRAFT



Environmental Design International inc.
33 West Monroe St., Suite 1825
Chicago, IL, 60603

Environmental Design International inc.

Telephone: 312-345-1400

BORING NUMBER EDI-PESA16-001

PAGE 1 OF 1

CLIENT Delta/CDOT

ISGS SITE NAME _____

EDI PROJECT NUMBER 1827.006

SITE LOCATION Chicago, Cook County, IL

DATE STARTED 11/5/24 LOGGED BY J. Reinhofer

SITE NAME PESA 16 - East 109th Street

DRILLING CONTRACTOR Earth Solutions

GROUND WATER LEVELS:

DRILLING METHOD Geoprobe

AT TIME OF DRILLING ---

LATITUDE 1833279.47 LONGITUDE 1199740.4

AT END OF DRILLING ---

COMPLETION DEPTH 5 ft

AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0								ASPHALT
0.3								CONCRETE
1.3					PID = 0 ppm			FILL - dark grey, sand, with gravel, with some clay, medium dense, moist
3.5	GP	50		3 to 4-foot soil sample collected for BTEX, VOCs, SVOCs, PNAs, RCRA metals, pesticides, herbicides, pH, Code R, and TCLP metals.	PID = 0 ppm			FILL - tan, fine sand, medium dense, moist
5.0					PID = 0 ppm			

EDI IDOT SOIL BORING NO WELL - GINT STD U.S.GDT - 11/11/24 15:03 - S:\BENTLEY\GINT\GINTCL\PROJECTS\1827.006.DELTA CDOT WPA ST IMPROVEMENTS.GPJ

The stratification lines represent approximate boundaries.
The transition may be gradual.

Bottom of borehole at 5.0 feet.



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33 West Monroe St., Suite 1825
Chicago, IL, 60603

Environmental Design International inc.
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BORING NUMBER EDI-PESA16-002

PAGE 1 OF 1

CLIENT <u>Delta/CDOT</u>	ISGS SITE NAME _____
EDI PROJECT NUMBER <u>1827.006</u>	SITE LOCATION <u>Chicago, Cook County, IL</u>
DATE STARTED <u>11/5/24</u> LOGGED BY <u>J. Reinhofer</u>	SITE NAME <u>PESA 16 - East 109th Street</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Geoprobe</u>	AT TIME OF DRILLING <u>---</u>
LATITUDE <u>1833284.85</u> LONGITUDE <u>1200160.57</u>	AT END OF DRILLING <u>---</u>
COMPLETION DEPTH <u>5 ft</u>	AFTER DRILLING <u>---</u>

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0								ASPHALT
0.8								FILL - dark grey, fine sand, with trace gravel, medium dense, moist
1					PID = 0 ppm			
2								
2.5	GP	60		3 to 4-foot soil sample collected for VOCs, SVOCs, RCRA metals, and pH.				
3					PID = 0 ppm			FILL - tan, fine sand, medium dense, moist
4								
5					PID = 0 ppm			
5.0								

EDI IDOT SOIL BORING NO WELL - GINT STD U.S.GDT - 11/11/24 15:03 - S:\BENTLEY\GINT\GINTCL\PROJECTS\1827.006_DELTA CDOT WPA ST IMPROVEMENTS.GPJ

The stratification lines represent approximate boundaries.
The transition may be gradual.

Bottom of borehole at 5.0 feet.



Environmental Design International inc.
 33 West Monroe St., Suite 1825
 Chicago, IL, 60603
 Telephone: 312-345-1400

BORING NUMBER EDI-PESA16-003

CLIENT Delta/CDOT ISGS SITE NAME _____
 EDI PROJECT NUMBER 1827.006 SITE LOCATION Chicago, Cook County, IL
 DATE STARTED 11/5/24 LOGGED BY J. Reinhofer SITE NAME PESA 16 - East 109th Street
 DRILLING CONTRACTOR Earth Solutions GROUND WATER LEVELS:
 DRILLING METHOD Geoprobe AT TIME OF DRILLING ---
 LATITUDE 1833286.26 LONGITUDE 1200504.25 AT END OF DRILLING ---
 COMPLETION DEPTH 5 ft AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0								CONCRETE
0.5								FILL - dark grey and tan, sand, with gravel, medium dense, moist
1					PID = 0 ppm			
2								
3	GP	70		3 to 4-foot soil sample collected for VOCs, SVOCs, RCRA metals, and pH.	PID = 0 ppm			
4								FILL - tan, fine sand, medium dense, moist
5					PID = 0 ppm			

The stratification lines represent approximate boundaries.
 The transition may be gradual.

Bottom of borehole at 5.0 feet.



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Environmental Design International inc.

Telephone: 312-345-1400

BORING NUMBER EDI-PESA16-004

PAGE 1 OF 1

CLIENT <u>Delta/CDOT</u>	ISGS SITE NAME _____
EDI PROJECT NUMBER <u>1827.006</u>	SITE LOCATION <u>Chicago, Cook County, IL</u>
DATE STARTED <u>11/5/24</u> LOGGED BY <u>J. Reinhofer</u>	SITE NAME <u>PESA 16 - East 109th Street</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Geoprobe</u>	AT TIME OF DRILLING <u>---</u>
LATITUDE <u>1833292.03</u> LONGITUDE <u>1200826.1</u>	AT END OF DRILLING <u>---</u>
COMPLETION DEPTH <u>5 ft</u>	AFTER DRILLING <u>---</u>

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0								ASPHALT
0.5								CONCRETE
0.8					PID = 0 ppm			FILL - greyish brown, sand, with gravel, medium dense, moist
1								
2								
2.0								
3	GP	75		3 to 4-foot soil sample collected for VOCs, SVOCs, RCRA metals, and pH.	PID = 0 ppm			FILL - tan, fine sand, medium dense, moist
4								
5					PID = 0 ppm			

EDI IDOT SOIL BORING NO WELL - GINT STD U.S.GDT - 11/11/24 15:03 - S:\BENTLEY\GINT\GINTCL\PROJECTS\1827.006_DELTA CDOT WPA ST IMPROVEMENTS.GPJ

The stratification lines represent approximate boundaries.
The transition may be gradual.

Bottom of borehole at 5.0 feet.

ATTACHMENT 3
DATA SUMMARY TABLE – SAMPLE RESULTS

DRAFT

Table 1

Created for:
Grace Czyszczon, DeltaSoil Analytical Results - PESA 16
3200-3463 East 109th Street
Chicago, Illinois 60616

Sample Date: November 5, 2024:

Laboratory ID :		O24K0295-01	O24K0295-02	O24K0295-03	O24K0295-04	
Customer Sample ID :		EDI-PESA16-001	EDI-PESA16-002	EDI-PESA16-003	EDI-PESA16-004	
Date Collected :		11/05/2024	11/05/2024	11/05/2024	11/05/2024	
Analyte		Maximum Allowable Concentration				
Acenaphthene		570	<0.0339	<0.0160	<0.0720	0.0248
Acetone		25	<0.0577	<0.0633	<0.0764	<0.0743
Aldrin		0.94	<0.00440			
Anthracene		12,000	<0.0508	<0.0240	0.354	0.0843
Arsenic	within a MSA county	13.0	3.26	1.1	2.79	4.21
Barium		1,500	65.7	4.84	34.1	6.37
Benzene		0.03	<0.00500	<0.00500	<0.00500	<0.00500
Benz(a)anthracene	within Chicago corporate limits	1.1	0.169	<0.0240	0.797	0.171
	within a populated area in MSA excluding Chicago	1.8	0.169	<0.0240	0.797	0.171
	within a populated area in non-MSA county or outside populated area	0.9	0.169	<0.0240	0.797	0.171
Benzo(b)fluoranthene	within Chicago corporate limits	1.5	0.342	<0.0240	0.925	0.2
	within a populated area in MSA excluding Chicago	2.1	0.342	<0.0240	0.925	0.2
	within a populated area in non-MSA county or outside populated area	0.9	0.342	<0.0240	0.925	0.2
Benzo(k)fluoranthene		9	0.143	<0.0320	0.318	0.0724
Benzoic acid		400	<2.71	<1.28	<5.76	<1.27
Benzo(a)pyrene	within Chicago corporate limits	1.3	0.315	<0.0640	0.74	0.151
	within a populated area in MSA excluding Chicago	2.1	0.315	<0.0640	0.74	0.151
	within a populated area in non-MSA county	0.98	0.315	<0.0640	0.74	0.151
	outside populated area	0.09	0.315	<0.0640	0.74	0.151
Bis(2-chloroethyl)ether		0.66	<0.0169	<0.00801	<0.0360	<0.00792
Bis(2-ethylhexyl)phthalate		46	<0.339	<0.160	<0.720	<0.158
Bromodichloromethane		0.6	<0.00329	<0.00181	<0.00437	<0.00212
Butyl benzyl phthalate		930	<0.102	<0.0480	<0.216	<0.0475
Cadmium		5.2	0.574	<0.230	<0.260	<0.224
Carbazole		0.6	<0.0339	<0.0160	<0.0720	0.0291
Carbon disulfide		9	<0.00329	<0.00362	<0.00437	<0.00425
Carbon tetrachloride		0.07	<0.0165	<0.0181	<0.0218	<0.0212
Chlordane		1.8	<0.0440			
4-Chloroaniline		0.7	<0.0508	<0.0240	<0.108	<0.0238
Chlorobenzene		1	<0.00329	<0.00362	<0.00437	<0.00425
Dibromochloromethane		0.4	<0.00165	<0.00181	<0.00218	<0.00212
Chloroform		0.3	<0.00329	<0.00362	<0.00437	<0.00425
2-Chlorophenol		1.5	<0.0339	<0.0160	<0.0720	<0.0158
Chromium		21	5.01	2.97	5.8	3.99
Chrysene		88	0.218	0.0168	0.767	0.156
2,4-D		1.5	<0.221			
Dalapon		0.85	<0.850			
4,4'-DDD		3	<0.00880			
4,4'-DDE		2	<0.00440			
4,4'-DDT		2	<0.00880			
Dibenz(a,h)anthracene	within Chicago corporate limits	0.20	0.0632	<0.0240	0.131	<0.0238
	within a populated area in MSA excluding Chicago	0.42	0.0632	<0.0240	0.131	<0.0238
	within a populated area in non-MSA county	0.15	0.0632	<0.0240	0.131	<0.0238
	outside populated area	0.09	0.0632	<0.0240	0.131	<0.0238
Di-n-butyl phthalate		2,300	<0.102	<0.0480	<0.216	<0.0475
1,2-Dichlorobenzene		17	<0.0508	<0.0240	<0.108	<0.0238
1,4-Dichlorobenzene		2	<0.0508	<0.0240	<0.108	<0.0238
3,3'-Dichlorobenzidine		1.3	<0.203	<0.0961	<0.432	<0.0951
1,1-Dichloroethane		23	<0.00329	<0.00362	<0.00437	<0.00425

Table 1

Created for:
Grace Czyszczon, DeltaSoil Analytical Results - PESA 16
3200-3463 East 109th Street
Chicago, Illinois 60616

Sample Date: November 5, 2024:

Laboratory ID :		O24K0295-01	O24K0295-02	O24K0295-03	O24K0295-04	
Customer Sample ID :		EDI-PESA16-001	EDI-PESA16-002	EDI-PESA16-003	EDI-PESA16-004	
Date Collected :		11/05/2024	11/05/2024	11/05/2024	11/05/2024	
Analyte		Maximum Allowable Concentration				
1,2-Dichloroethane		0.02	<0.00165	<0.00181	<0.00218	<0.00212
1,1-Dichloroethene		0.06	<0.00165	<0.00181	<0.00218	<0.00212
cis-1,2-Dichloroethene		0.4	<0.00329	<0.00362	<0.00437	<0.00425
trans-1,2-Dichloroethene		0.7	<0.00329	<0.00362	<0.00437	<0.00425
2,4-Dichlorophenol		0.48	<0.0339	<0.0160	<0.0720	<0.0158
1,2-Dichloropropane		0.03	<0.00165	<0.00181	<0.00218	<0.00212
cis-1,3-Dichloropropene		0.005	<0.00329	<0.00362	<0.00437	<0.00425
trans-1,3-Dichloropropene		0.005	<0.00329	<0.00362	<0.00437	<0.00425
Dieldrin		0.603	<0.00440			
Diethyl phthalate		470	<0.339	<0.160	<0.720	<0.158
2,4-Dimethylphenol		9	<0.102	<0.0480	<0.216	<0.0475
2,4-Dinitrophenol		3.3	<0.339	<0.160	<0.720	<0.158
2,4-Dinitrotoluene		0.25	<0.0508	<0.0240	<0.108	<0.0238
2,6-Dinitrotoluene		0.26	<0.0339	<0.0160	<0.0720	<0.0158
Dinoseb		0.25	<0.221			
Di-n-octyl phthalate		1.600	<0.0508	<0.0240	<0.108	<0.0238
Endosulfan I		18	<0.00440			
Endosulfan II		18	<0.00440			
Endrin		1	<0.00440			
Ethylbenzene		13	<0.00659	<0.00723	<0.00873	<0.00850
Fluoranthene		3,100	0.263	0.0243	1.52	0.328
Fluorene		560	<0.0339	<0.0160	0.084	0.0436
Heptachlor		0.871	<0.00440			
Heptachlor epoxide		1.005	<0.00440			
Hexachlorobenzene		0.4	<0.0339	<0.0160	<0.0720	<0.0158
alpha-BHC		0.0074	<0.00440			
gamma-BHC		0.009	<0.00440			
Hexachlorocyclopentadiene		1.1	<1.35	<0.640	<2.88	<0.634
Hexachloroethane		0.5	<0.0677	<0.0320	<0.144	<0.0317
Indeno(1,2,3-cd)pyrene	within a populated area in MSA excluding Chicago	1.6	0.241	<0.0240	0.462	0.0724
	within Chicago corporate limits or a populated area in non-MSA county or outside a populated area	0.9	0.241	<0.0240	0.462	0.0724
Isophorone		8	<0.0508	<0.0240	<0.108	<0.0238
Lead		107	575	3.26	21.1	5.91
Lead, TCLP*		0.0075	0.135			
Mercury	elemental (analyzed as total mercury)	0.1	<0.0505	<0.0497	<0.0584	<0.0510
	ionic (analyzed as total mercury)	0.89	<0.0505	<0.0497	<0.0584	<0.0510
Methoxychlor		160	<0.00880			
Bromomethane		0.2	<0.0165	<0.0181	<0.0218	<0.0212
Methyl tert-butyl ether		0.32	<0.00165	<0.00181	<0.00218	<0.00212
Methylene chloride		0.02	<0.0165	<0.0181	<0.0200	<0.0200
2-Methylphenol		15	<0.0169	<0.00801	<0.0360	<0.00792
Naphthalene		1.8	<0.0508	<0.0240	<0.108	<0.0238
Nitrobenzene		0.26	<0.0677	<0.0320	<0.144	<0.0317
N-Nitrosodiphenylamine		1	<0.0508	<0.0240	<0.108	<0.0238
N-Nitrosodi-n-propylamine		0.0018	<0.0339	<0.0160	<0.0720	<0.0158
Pentachlorophenol		0.02	<0.102	<0.0480	<0.216	<0.0475
Phenol		100	<0.0677	<0.0320	<0.144	<0.0317
Aroclor 1016		1	<0.0220			
Aroclor 1221		1	<0.0660			
Aroclor 1232		1	<0.0880			
Aroclor 1242		1	<0.0330			
Aroclor 1248		1	<0.0330			
Aroclor 1254		1	<0.0220			
Aroclor 1260		1	<0.0330			
Pyrene		2,300	0.233	0.0248	1.28	0.253
Selenium		1.3	<0.492	<0.460	<0.520	<0.448
Silver		4.4	<0.492	<0.460	<0.520	<0.448

Table 1

Created for:
Grace Czyszczon, Delta

Soil Analytical Results - PESA 16
3200-3463 East 109th Street
Chicago, Illinois 60616

Sample Date: November 5, 2024:

Laboratory ID :		O24K0295-01	O24K0295-02	O24K0295-03	O24K0295-04
Customer Sample ID :		EDI-PESA16-001	EDI-PESA16-002	EDI-PESA16-003	EDI-PESA16-004
Date Collected :		11/05/2024	11/05/2024	11/05/2024	11/05/2024
Analyte	Maximum Allowable Concentration				
Styrene	4	<0.00659	<0.00723	<0.00873	<0.00850
Tetrachloroethene	0.06	<0.00329	<0.00362	<0.00437	<0.00425
Toluene	12	<0.00500	<0.00500	<0.00500	<0.00500
Toxaphene	0.6	<0.550			
2,4,5-TP (Silvex)	11	<0.221			
1,2,4-Trichlorobenzene	5	<0.0508	<0.0240	<0.108	<0.0238
1,1,1-Trichloroethane	2	<0.00165	<0.00181	<0.00218	<0.00212
1,1,2-Trichloroethane	0.02	<0.00165	<0.00181	<0.00218	<0.00212
Trichloroethene	0.06	<0.00165	<0.00181	<0.00218	<0.00212
2,4,5-Trichlorophenol	26	<0.0339	<0.0160	<0.0720	<0.0158
2,4,6-Trichlorophenol	0.66	<0.0339	<0.0160	<0.0720	<0.0158
Vinyl chloride	0.01	<0.00329	<0.00362	<0.00437	<0.00425
Xylenes, Total	5.6	<0.00988	<0.0109	<0.0131	<0.0127
pH	6.25 - 9.0	8.6	8.96	8.1	9.02

Key:

Bold = exceedence of a Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill Material at Regulated Fill Operations (MAC) standard.

TCLP - Toxicity Characteristic Leaching Procedure

* = Value is the TACO Class I Soil Component of the Groundwater Ingestion Exposure Route (secondary standard).

ATTACHMENT 4
DATA SUMMARY TABLE – SOIL DISPOSAL VOLUME

DRAFT

Table 2

Created for:
Grace Czyszczon, Delta

Soil Disposal Volumes - PESA 16

3200-3463 East 109th Street
Chicago, Illinois 60616

Sample Date: November 5, 2024

Soil Boring	Sample Collection Interval (feet bgs)	Termination Depth (feet bgs)	Affected Area (ft ²)	Affected Volume (yd ³)	Estimated Disposal Volume (yd ³)	Exceedence	CCDD Status
EDI-PESA16-001	0-5	5	9550	1768.5	2210.65	Yes	No
EDI-PESA16-002	0-5	5	17675	3273.1	4091.44	None	Yes
EDI-PESA16-003	0-5	5	17675	3273.1	4091.44	None	Yes
EDI-PESA16-004	0-5	5	9700	1796.3	2245.37	Yes	No

TOTAL (CCDD)			35350.0	6546.3	8190.00		
TOTAL (LANDFILL)			19250.0	3564.8	4460.00		
TOTAL (SITE - FT²)			54600.00	N/A	N/A		
TOTAL (SITE - ACRE)			1.25	N/A	N/A		

Key:

bgs = below ground surface.

ft = feet.

ft² = square feet

yd³ = cubic yard

Notes

1. Affected Areas was determined using the area measurement tool in Google Maps, then rounding up to the next 50 square feet.
2. Affected Volume in cubic feet was calculated by multiplying the Affected Area by the termination depth then dividing by 27.
3. Estimated Disposal Volume was calculated by multiplying the Affected Volume by a swell factor of 1.25 then rounding up to the next 10 cubic yard.



*Environmental Design
International inc.*

Chicago & Baltimore

Ms. Grace Czystczon
Delta Engineering Group, LLC
Soil Disposal Package for Project Area 16
3200-3463 East 109th Street, Chicago, IL 60617
November 22, 2024

ATTACHMENT 5

COMPLETED IEPA LPC-663 FORM

DRAFT



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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

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

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

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

I. Source Location Information

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

Project Name: CDOT WPA Street Improvement PO # 114542 Office Phone Number, if available: N/A

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

3200-3463 East 109th Street (PESA 16)

City: Chicago State: IL Zip Code: 60617

County: Cook Township: Hyde Park

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

Latitude: 41.69733 Longitude: -87.54225

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Google Maps

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

Approximate Start Date (mm/dd/yyyy): Dec 2, 2024 Approximate End Date (mm/dd/yyyy): Feb 28, 2025

Estimated Volume of debris (cu. Yd.): 8,190

II. Owner/Operator Information for Source Site

Site Owner

Name: Chicago Department of Transportation (CDOT)

Street Address: 2 North LaSalle Street, Suite 820

PO Box: _____

City: Chicago State: IL

Zip Code: 60602-3702 Phone: 312-744-8092

Contact: Jaquelen Samuel

Email, if available: jaquelen.samuel@cityofchicago.org

Site Operator

Name: Chicago Department of Transportation (CDOT)

Street Address: 2 North LaSalle Street, Suite 820

PO Box: _____

City: Chicago State: IL

Zip Code: 60602-3702 Phone: 312-744-8092

Contact: Jaquelen Samuel

Email, if available: jaquelen.samuel@cityofchicago.org

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Four sample locations were selected along the 1360 foot stretch of pavement. The soil borings were installed to a depth of 5 feet. The collected samples were based on visual appearance and PID readings. An estimated 12,650 cubic yards (cy) of soil will be excavated, so the number of samples is adequate based on a typical sampling ratio of 1 sample per 5,000 cy.

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

The collected samples were analyzed for compounds based on the identified RECs and the CDOT Sampling Plan Guidance. A review of the sample results showed that soil from the westmost (EDI-PESA-001 for lead) and eastmost (EDI-PESA-004 for pH) soil boring are not CCDD qualified material. The reported pH for the samples were between 8.1 and 9.02 pH units.

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

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

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

Company Name: Environmental Design International
Street Address: 33 West Monroe Street, Suite 1825
City: Chicago State: IL Zip Code: 60303-5326
Phone: 312-645-1400

Garth A. Daley
Printed Name:

Nov 22, 2024
Date:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:





*Environmental Design
International inc.*

Chicago & Baltimore

Ms. Grace Czyszczon
Delta Engineering Group, LLC
Soil Disposal Package for Project Area 16
3200-3463 East 109th Street, Chicago, IL 60617
November 22, 2024

ATTACHMENT 6

ANALYTICAL REPORT – PARTIAL COPY

DRAFT



sterling labs

- O'Hare Location

509 N. 3rd Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 www.thesterlinglab.com

November 13, 2024

Environmental Design International, Inc.
33 West Monroe Street Suite 1825
Chicago, IL 60603

Telephone: (312) 345-0461
Fax: (312) 345-0529

Analytical Report for Work Order: O24K0295 Revision 0

RE: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 102nd St

Dear Environmental Design International, Inc.:

Sterling Labs has received 7 samples for the referenced project on November 5, 2024 15:03. The analytical results are presented in the following report.

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

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

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

Sincerely,

Justice Kwateng
Project Manager

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



Customer: Environmental Design International, Inc.

Work Order Sample Summary

Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E
102nd St

WorkOrder: O24K0295

Laboratory ID	Sample ID	Tag Number	Collection Date	Date Received
O24K0295-01	EDI-PESA16-001		11/05/24 11:45	11/05/24 15:03
O24K0295-02	EDI-PESA16-002		11/05/24 12:52	11/05/24 15:03
O24K0295-03	EDI-PESA16-003		11/05/24 13:03	11/05/24 15:03
O24K0295-04	EDI-PESA16-004		11/05/24 13:27	11/05/24 15:03
O24K0295-05	EDI-PESA15-001		11/05/24 15:40	11/05/24 15:03
O24K0295-06	EDI-PESA15-002		11/05/24 15:55	11/05/24 15:03
O24K0295-07	EDI-PESA15-003		11/05/24 16:06	11/05/24 15:03



Customer: Environmental Design International, Inc.

Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 102nd St

Case Narrative

WorkOrder: O24K0295

Work Order: O24K0295

The samples were received on 11/5/2024 3:03:00 PM. The temperature of the cooler(s) at receipt was:

Cooler: Default Cooler Temp C 4.7

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

HPLC

8321 Herbicides

S24K0282-CCV13 and CCV14 had exceedances as indicated in the following table.

Table with 7 columns: Sample ID, Analyte, Conc, % R, LCL, UCL, Qualifier. Rows include 2,4-D, Picloram, and 2,4-Dichlorophenylacetic acid.

Dalapon was reported below our normal Reporting Limit to meet TACO limits for sample EDI-PEDA16-001 (O24J0295-01).

GCMS Semivolatiles

8270 SVOC

O24K0295-04: The sample was utilized for MS/MSD analysis. The MS and MSD recovery for multiple compounds were outside of control criteria. The RPD between MS and MSD was also outside control limits for multiple compounds.

Table with 7 columns: Sample, Analyte, Recovery %, LCL, UCL, RPD %, Limit. Rows include Benzoic acid, Fluoranthene, Phenanthrene, and Pyrene.

8270 SVOC TCLP

O24K0295-01: the surrogate spike compound 2-fluorophenol recovered outside control criteria (21% - 110%) at 19%.



GC-MS Volatiles

8260B VOC TCLP

B24K0438-BS1 and BSD1 had an elevated recovery above the 70 to 130% control limits for Vinyl chloride at 143 and 144% with an elevated CCV recovery as well.

Inorganics

9095B Paint filter

The paint filter test for the following samples failed according to EPA Method SW-846 9095B. The sample contained fines that passed through the paint filter which meets the definition of a free liquid according to SW-846 9095B. No liquid was observed in the following samples:

EDI-PESA16-001 (O24K0295-01)

EDI-PESA15-001 (O24K0295-05)



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc.
Work Order: O24K0295
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 1C

Client Sample ID: EDI-PESA16-001
Collection Date: 11/05/2024 11:45
Matrix: Soil

Lab ID: O24K0295-01

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Volatile Organic Compounds by GC/MS SW1311 / SW8260B / SW5030. Prep Date: 11/08/24 10:37. Analyst: TC1. Lists compounds like 1,1-Dichloroethene, 1,2-Dichloroethane, etc.

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Volatile Organic Compounds by GC/MS SW8260B / SW5035. Prep Date: 11/07/24 06:23. Analyst: CH3. Lists compounds like Acetone, Benzene, Bromodichloromethane, etc.



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc. Client Sample ID: EDI-PESA16-001
Work Order: O24K0295 Collection Date: 11/05/2024 11:45
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 1C Matrix: Soil
Lab ID: O24K0295-01 (Continued)

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains three sections: Volatile Organic Compounds by GC/MS, Semivolatile Organic Compounds by GC/MSW1311 / SW8270D / SW3510, and Semivolatile Organic Compounds by GC/MSW8270D / SW3550.



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc. Client Sample ID: EDI-PESA16-001
Work Order: O24K0295 Collection Date: 11/05/2024 11:45
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 1C Matrix: Soil
Lab ID: O24K0295-01 (Continued)

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains data for Semivolatile Organic Compounds by GC/MSW8270D / SW3550, including ILEPA 100256 and Fluoranthene.



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc.
Work Order: O24K0295
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 1C

Client Sample ID: EDI-PESA16-001
Collection Date: 11/05/2024 11:45
Matrix: Soil

Lab ID: O24K0295-01 (Continued)

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Semivolatile Organic Compounds by GC/MSW8270D / SW3550. Prep Date: 11/08/24 09:00. Analyst: LP. Lists various compounds like Naphthalene, Nitroanilines, Nitrobenzene, etc.

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Polychlorinated Biphenyls (PCBs) by GC/ESW8082A / SW3546. Prep Date: 11/08/24 09:45. Analyst: AY1. Lists Aroclor 1016, 1221, 1232, etc.



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc. Client Sample ID: EDI-PESA16-001
Work Order: O24K0295 Collection Date: 11/05/2024 11:45
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 1C Matrix: Soil
Lab ID: O24K0295-01 (Continued)

Analyses Result RL Qualifier Units DF Date Analyzed Batch AnaBatch

Organochlorine Pesticides by GC/ECD SW8081B / SW3546

Prep Date: 11/08/24 09:15 Analyst: NL1

ILEPA 100256

Table with 9 columns: Analyte, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Rows include 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Aldrin, alpha-BHC, alpha-Chlordane, beta-BHC, Chlordane, delta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Endrin ketone, gamma-BHC, gamma-Chlordane, Heptachlor, Heptachlor epoxide, Methoxychlor, Toxaphene.

Herbicides by High Pressure Liquid ChromSW8321B / SW3546

Prep Date: 11/08/24 08:30 Analyst: JPP

ILEPA 100256

Table with 9 columns: Analyte, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Rows include 2,4,5-TP (Silvex), 2,4-D, Dalapon, Dinoseb, Pentachlorophenol, Picloram.

Metals by ICP-MS

SW6020 B / SW3050

Prep Date: 11/07/24 11:59 Analyst: MS6

ILEPA 100256

Table with 9 columns: Analyte, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Rows include Arsenic, Barium, Cadmium, Chromium, Lead, Selenium.



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc. **Client Sample ID:** EDI-PESA16-001
Work Order: O24K0295 **Collection Date:** 11/05/2024 11:45
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 1C **Matrix:** Soil
Lab ID: O24K0295-01 (Continued)

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
Metals by ICP-MS		SW6020 B / SW3050		Prep Date:		11/07/24 11:59	Analyst: MS6	
ILEPA 100256								
Silver	ND	0.492		mg/Kg dry	10	11/09/2024	B24K0306	S24K0278
Metals by ICP-MS		SW6020B / SW1311 / SW3015		Prep Date:		11/08/24 12:33	Analyst: MS6	
ILEPA 100256								
Arsenic TCLP	ND	0.0250		mg/L	5	11/11/2024	B24K0385	S24K0296
Barium TCLP	0.717	0.0250		mg/L	5	11/11/2024	B24K0385	S24K0296
Cadmium TCLP	ND	0.00250		mg/L	5	11/11/2024	B24K0385	S24K0296
Chromium TCLP	ND	0.0250		mg/L	5	11/11/2024	B24K0385	S24K0296
Lead TCLP	0.135	0.00750		mg/L	5	11/11/2024	B24K0385	S24K0296
Selenium TCLP	ND	0.0250		mg/L	5	11/11/2024	B24K0385	S24K0296
Silver TCLP	ND	0.00250		mg/L	5	11/11/2024	B24K0385	S24K0296
Mercury by CVAA		SW7470A / SW1311		Prep Date:		11/11/24 11:55	Analyst: GS1	
ILEPA 100256								
Mercury TCLP	ND	0.00040		mg/L	1	11/11/2024	B24K0453	S24K0287
Mercury by CVAA		SW7471B		Prep Date:		11/08/24 11:39	Analyst: GS1	
ILEPA 100256								
Mercury	ND	0.0505		mg/Kg dry	1	11/08/2024	B24K0379	S24K0244
Wet Chemistry		ASTM D92-90		Prep Date:		11/07/24 14:59	Analyst: AS8	
Ignitability (open cup)	>180	35.0	*	°F	1	11/07/2024	B24K0334	
Wet Chemistry		SM2540G		Prep Date:		11/06/24 18:50	Analyst: AS8	
Total Solids	87.8	0.100	*	% (Percent)	1	11/07/2024	B24K0269	
Wet Chemistry		SW7.3.3.2/9014 by Discrete		Prep Date:		11/08/24 11:21	Analyst: LN2	
Reactive Cyanide	ND	3.73	*	mg/Kg	1	11/11/2024	B24K0378	S24K0283
Wet Chemistry		SW7.3.4.2		Prep Date:		11/07/24 11:48	Analyst: AN3	
Reactive Sulfide	ND	18.7	*	mg/Kg	2	11/07/2024	B24K0305	
Wet Chemistry		SW9045C		Prep Date:		11/07/24 07:52	Analyst: DM2	
ILEPA 100256								
pH	8.60			pH Units	1	11/07/2024	B24K0280	
Wet Chemistry		SW9065		Prep Date:		11/11/24 09:29	Analyst: LN2	
ILEPA 100256								



Date Reported: 11/13/2024

Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc.

Client Sample ID: EDI-PESA16-001

Work Order: O24K0295

Collection Date: 11/05/2024 11:45

Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 10

Matrix: Soil

Lab ID: O24K0295-01 (Continued)

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
Wet Chemistry		SW9065				Prep Date: 11/11/24 09:29		Analyst: LN2
ILEPA 100256								
Phenolics, Total Recoverable	ND	0.112		mg/Kg dry	1	11/11/2024	B24K0435	S24K0281
Wet Chemistry		SW9095				Prep Date: 11/08/24 09:22		Analyst: AS8
ILEPA 100256								
Free Liquid	No Liquid			Pass/Fail	1	11/08/2024	B24K0364	



Date Reported: 11/13/2024

Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc.

Client Sample ID: EDI-PESA16-002

Work Order: O24K0295

Collection Date: 11/05/2024 12:52

Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 1C

Matrix: Soil

Lab ID: O24K0295-02

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
Volatile Organic Compounds by GC/MS SW8260B / SW5035						Prep Date: 11/07/24 06:23		Analyst: CH3
ILEPA 100256								
Acetone	ND	0.0633		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Benzene	ND	0.00500		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Bromodichloromethane	ND	0.00181		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Bromoform	ND	0.00362		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Bromomethane	ND	0.0181		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
2-Butanone	ND	0.0253		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Carbon disulfide	ND	0.00362		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Carbon tetrachloride	ND	0.0181		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Chlorobenzene	ND	0.00362		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Chloroethane	ND	0.00723		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Chloroform	ND	0.00362		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Chloromethane	ND	0.00723		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Dibromochloromethane	ND	0.00181		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
1,1-Dichloroethane	ND	0.00362		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
1,2-Dichloroethane	ND	0.00181		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
1,1-Dichloroethene	ND	0.00181		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
cis-1,2-Dichloroethene	ND	0.00362		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
trans-1,2-Dichloroethene	ND	0.00362		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
1,2-Dichloropropane	ND	0.00181		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
cis-1,3-Dichloropropene	ND	0.00362		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
trans-1,3-Dichloropropene	ND	0.00362		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Ethylbenzene	ND	0.00723		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
2-Hexanone	ND	0.0253		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
4-Methyl-2-pentanone	ND	0.0253		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Methylene chloride	ND	0.0181		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Methyl tert-butyl ether	ND	0.00181		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Styrene	ND	0.00723		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
1,1,2,2-Tetrachloroethane	ND	0.00181		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Tetrachloroethene	ND	0.00362		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Toluene	ND	0.00500		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
1,1,1-Trichloroethane	ND	0.00181		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
1,1,2-Trichloroethane	ND	0.00181		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Trichloroethene	ND	0.00181		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Vinyl chloride	ND	0.00362		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199
Xylenes, Total	ND	0.0109		mg/Kg dry	1	11/07/2024	B24K0331	S24K0199



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc. Client Sample ID: EDI-PESA16-002
Work Order: O24K0295 Collection Date: 11/05/2024 12:52
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 1C Matrix: Soil

Lab ID: O24K0295-02 (Continued)

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains data for Semivolatile Organic Compounds by GC/MSW8270D / SW3550, including various chemical compounds and their results.



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc. Client Sample ID: EDI-PESA16-002
Work Order: O24K0295 Collection Date: 11/05/2024 12:52
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 1C Matrix: Soil

Lab ID: O24K0295-02 (Continued)

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains data for Semivolatile Organic Compounds by GC/MSW8270D / SW3550, including ILEPA 100256 and various chemical compounds like 2,6-Dinitrotoluene, Fluoranthene, Pyrene, etc.



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc. Client Sample ID: EDI-PESA16-002
Work Order: O24K0295 Collection Date: 11/05/2024 12:52
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 10 Matrix: Soil
Lab ID: O24K0295-02 (Continued)

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. It contains four main sections: Metals by ICP-MS (SW6020 B / SW3050), Mercury by CVAA (SW7471B), Wet Chemistry (SM2540G), and Wet Chemistry (SW9045C).



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc. Client Sample ID: EDI-PESA16-003
Work Order: O24K0295 Collection Date: 11/05/2024 13:03
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 1C Matrix: Soil
Lab ID: O24K0295-03

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains data for Volatile Organic Compounds by GC/MS, SW8260B / SW5035, ILEPA 100256, listing various compounds like Acetone, Benzene, etc.



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc. Client Sample ID: EDI-PESA16-003
Work Order: O24K0295 Collection Date: 11/05/2024 13:03
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 1C Matrix: Soil
Lab ID: O24K0295-03 (Continued)

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains data for Semivolatile Organic Compounds by GC/MSW8270D / SW3550, listing various compounds like Acenaphthene, Anthracene, Benzo(a)anthracene, etc., with their respective results and RL values.



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc.
Work Order: O24K0295
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 1C

Client Sample ID: EDI-PESA16-003
Collection Date: 11/05/2024 13:03
Matrix: Soil

Lab ID: O24K0295-03 (Continued)

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains data for Semivolatile Organic Compounds by GC/MSW8270D / SW3550, including various chemical compounds and their results.



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc. Client Sample ID: EDI-PESA16-003
Work Order: O24K0295 Collection Date: 11/05/2024 13:03
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 10 Matrix: Soil
Lab ID: O24K0295-03 (Continued)

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains sections for Metals by ICP-MS, Mercury by CVAA, and Wet Chemistry.



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc. Client Sample ID: EDI-PESA16-004
Work Order: O24K0295 Collection Date: 11/05/2024 13:27
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 1C Matrix: Soil
Lab ID: O24K0295-04

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains data for Volatile Organic Compounds by GC/MS, SW8260B / SW5035, ILEPA 100256, listing various compounds like Acetone, Benzene, etc., with their respective results and RL values.



Date Reported: 11/13/2024

Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc.

Client Sample ID: EDI-PESA16-004

Work Order: O24K0295

Collection Date: 11/05/2024 13:27

Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 1C

Matrix: Soil

Lab ID: O24K0295-04 (Continued)

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
Semivolatile Organic Compounds by GC/MSW8270D / SW3550				Prep Date:	11/08/24 09:00	Analyst: LP		
ILEPA 100256								
Acenaphthene	0.0248	0.0158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Acenaphthylene	ND	0.0158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Aniline	ND	0.158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Anthracene	0.0843	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Benzo(a)anthracene	0.171	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Benzidine	ND	2.64		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Benzo(a)pyrene	0.151	0.0634		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Benzo(b)fluoranthene	0.200	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Benzo(g,h,i)perylene	0.0779	0.0317		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Benzo(k)fluoranthene	0.0724	0.0317		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Benzoic acid	ND	1.27	J1	mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Benzyl alcohol	ND	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Bis(2-chloroethoxy)methane	ND	0.0158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Bis(2-chloroethyl)ether	ND	0.00792		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Bis(2-ethylhexyl)phthalate	ND	0.158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
4-Bromophenyl-phenylether	ND	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Butyl benzyl phthalate	ND	0.0475		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Carbazole	0.0291	0.0158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
4-Chloroaniline	ND	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
4-Chloro-3-methylphenol	ND	0.0158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
2-Chloronaphthalene	ND	0.0158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
2-Chlorophenol	ND	0.0158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
4-Chlorophenyl-phenylether	ND	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Bis(2-chloroisopropyl)ether	ND	0.634		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Chrysene	0.156	0.0158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Dibenzo(a,h)anthracene	ND	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Dibenzofuran	ND	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
1,2-Dichlorobenzene	ND	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
1,3-Dichlorobenzene	ND	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
1,4-Dichlorobenzene	ND	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
3,3'-Dichlorobenzidine	ND	0.0951		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
2,4-Dichlorophenol	ND	0.0158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Diethyl phthalate	ND	0.158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Dimethyl phthalate	ND	0.0158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
2,4-Dimethylphenol	ND	0.0475		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Di-n-butyl phthalate	ND	0.0475		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
4,6-Dinitro-2-methylphenol	ND	0.634		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
2,4-Dinitrophenol	ND	0.158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
2,4-Dinitrotoluene	ND	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc.
Work Order: O24K0295
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 1C

Client Sample ID: EDI-PESA16-004
Collection Date: 11/05/2024 13:27
Matrix: Soil

Lab ID: O24K0295-04 (Continued)

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
Semivolatile Organic Compounds by GC/MSW8270D / SW3550				Prep Date:	11/08/24 09:00	Analyst: LP		
ILEPA 100256								
2,6-Dinitrotoluene	ND	0.0158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Di-n-octyl phthalate	ND	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Fluoranthene	0.328	0.0238	J1	mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Fluorene	0.0436	0.0158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Hexachlorobenzene	ND	0.0158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Hexachlorobutadiene	ND	0.0317		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Hexachlorocyclopentadiene	ND	0.634		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Hexachloroethane	ND	0.0317		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Indeno(1,2,3-cd)pyrene	0.0724	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Isophorone	ND	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
2-Methylnaphthalene	ND	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
2-Methylphenol	ND	0.00792		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
3 & 4-Methylphenol	ND	0.0317		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Naphthalene	ND	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
2-Nitroaniline	ND	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
3-Nitroaniline	ND	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
4-Nitroaniline	ND	0.0317		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Nitrobenzene	ND	0.0317		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
2-Nitrophenol	ND	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
4-Nitrophenol	ND	0.634		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
N-Nitrosodimethylamine	ND	0.0317		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
N-Nitrosodi-n-propylamine	ND	0.0158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
N-Nitrosodiphenylamine	ND	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Pentachlorophenol	ND	0.0475		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Phenanthrene	0.243	0.0238	J1	mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Phenol	ND	0.0317		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Pyrene	0.253	0.0238	J1	mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
Pyridine	ND	0.634		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
1,2,4-Trichlorobenzene	ND	0.0238		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
2,4,5-Trichlorophenol	ND	0.0158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285
2,4,6-Trichlorophenol	ND	0.0158		mg/Kg dry	1	11/09/2024	B24K0323	S24K0285



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc. Client Sample ID: EDI-PESA16-004
Work Order: O24K0295 Collection Date: 11/05/2024 13:27
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 10 Matrix: Soil
Lab ID: O24K0295-04 (Continued)

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains data for Metals by ICP-MS, Mercury by CVAA, Wet Chemistry, and pH.



2242 W. Harrison St., Suite 200, Chicago, IL 60601
 509 N. 3rd Ave., Des Plaines, IL 60016 Phone:
 info@thesterlinglab.com



024K0295

PM: Justice Kwateng

Environmental Design International, Inc.

No: 102726

Page: 1 of 1

Company: EDI

Project Number: 1827.006 Client Tracking

Project Name: CDOT WPA PSI

Project Location: 3200-3463 E 109th St, 2834-2915 E 102nd St

Sampler(s): Joe Reinhofer

Report To: Garth Daley Phone: (708) 203-8672

QC Level: 1 2 3 4 Fax:

e-mail: gdaley@envdesigni.com

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	BTEX	VOCs	SVOCs	PNAS	RCRA metals	Pesticides	Herbicides	PH	Code R	TCLP metals
EDI-PESA16-001	11/5/24	11:45	S		X		5	X	X	X	X	X	X	X	X	X	X
EDI-PESA16-002	↓	12:52	↓		↓		↓		X	X		X		X			
EDI-PESA16-003	↓	13:03	↓		↓		↓		X	X		X		X			
EDI-PESA16-004	↓	13:27	↓		↓		↓		X	X		X		X			
EDI-PESA15-001	↓	15:40	↓		↓		↓				X	X		X	X	X	
EDI-PESA15-002	↓	15:55	↓		↓		↓				X	X		X			
EDI-PESA15-003	↓	16:06	↓		↓		↓				X	X		X			

Vertical labels on the right side of the table grid:

- BTEX
- VOCs
- SVOCs
- PNAS
- RCRA metals
- Pesticides
- Herbicides
- PH
- Code R
- TCLP metals

P.O. No.:

Quote No.:

Turn Around Time (Days):
 1 2 3 4 5-7 10

Results Needed:
 / / am/pm

Remarks	Lab No.:
	01A-E
	02A-E
	03A-E
	04A-E
	05A-E
	06A-E
	07A-E

Relinquished by: (Signature) Joe Reinhofer Date/Time: 11/5 17:03

Received by: (Signature) Garth Daley Date/Time: 11-5-24 15:03

Relinquished by: (Signature) Joe Reinhofer Date/Time: 11/6/24 9:24

Received by: (Signature) Garth Daley Date/Time: 11-6-24 9:26

Relinquished by: (Signature) Garth Daley Date/Time: 11-6-24 10:51

Received by: (Signature) Garth Daley Date/Time: 11-6-24 10:51

Comments: CHI

Preservation Code: A = None B = HNO₃ C = NaOH
 D = H₂SO₄ E = HCl F = 5035/EnCore G = Other

Laboratory Work Order No.: 024K0295

Received on Ice: Yes No

Temperature: 4.7 °C

Sample Receipt Checklist

Work Order: O24K0295

Printed: 11/7/2024 10:47:13AM

Client: Environmental Design International, Inc.
Project: Soil Analysis

Date Due: Monday, November 11, 2024

Received By: Erin Kripke
Logged In By: Lucas Demari

Date Received: 11/5/2024 3:03:00PM
Date Logged In: 11/6/2024 10:59:52AM

Cooler Name: Default Cooler

How were samples received: Courier

Cooler temperature at of below 6 degrees Celsius: Yes

Chain of Custody present and properly completed : Yes

Turnaround Time is indicated and specified: Yes

Chain of Custody agrees with sample labels: Yes

Samples received within hold time: Yes

Proper sample containers received intact: Yes

Sufficient sample volume: Yes

Containers properly preserved: Yes

Custody seals present: No

Volatile water vials received: No

Samples going out of hold time within 24 hours:


Sample Receipt Comments

Work Order: O24K0295

The samples were received on 11/5/2024 3:03:00 PM. The temperature of the cooler(s) at receipt was:

Cooler:	Temp C
Default Cooler	4.7

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

Reviewed By: 

Date: 11/7/24



Environmental Design
International inc.

Chicago & Baltimore

33 W. Monroe St., Suite 1825
Chicago, IL 60603-5326

phone: 312-345-1400

fax: 312-345-0529

web: envdesigni.com

November 15, 2024

Ms. Grace Czyszczoń
Delta Engineering Group, LLC
111 West Jackson Boulevard
Suite 910
Chicago, Illinois 60621

**Subject: Soil Disposal Package
Project Area 13
5215-5226 South Hoyne Avenue
Chicago, Illinois 60609**

Dear Ms. Czyszczoń:

Environmental Design International inc. (EDI) is pleased to submit this Soil Disposal Package to Delta Engineering Group, LLC (Delta) in support of the Chicago Department of Transportation (CDOT) WPA Residential Streets project. The package addresses soil excavation activities that are planned for Project Area 13, which includes portions of South Hoyne Avenue and West 52nd Place in Chicago, Cook County, Illinois (the Project Area). The Project Area is currently an asphalt roadway, approximately 150 feet in length, that extends northward from the intersection of South Hoyne Avenue and West 52nd Place to a dead end.

Project Background

EDI completed a Preliminary Environmental Site Assessment (PESA) site visit for the Project Area on May 22, 2024. The PESA evaluation of the Project Area identified a total of seven (7) sites, including the Project Area, that were assessed by evaluating environmental database listings, historical sources, and other records. The findings of the PESA evaluation were documented in the PESA Report, dated October 2, 2024, that was issued following a review by Huff & Huff (H&H), an environmental contractor that performs environmental functions on behalf of CDOT.

Among the findings presented in the PESA Report are the following:

- No Recognized Environmental Conditions (RECs) or Potentially Impacted Properties (PIPs) were identified for the Project Area or any of the six (6) adjacent sites or the one (1) adjoining site.
- No *de minimus* conditions were identified for the project area. Three (3) of the adjacent sites had reported *de minimus* conditions (potential ACM and LBP, pole-mounted transformers, stained pavement), and the adjoining site had two (2) reported *de minimus* conditions (potential ACM and LBP, chicken coops and chickens).

Based on the PESA findings, EDI initially recommended that comprehensive additional site investigation activities were not needed to characterize the soils from the Project Area for disposal as Clean Construction or Demolition Debris (CCDD). However, H&H, the environmental consultant evaluating PESA reports on behalf of CDOT, has stated that local CCDD facilities will not accept soils from City of Chicago rights-of-way (ROWs) with Illinois Environmental Protection Agency (IEPA) LPC-662 documentation and associated analysis for materials sourced. As such, EDI completed a Preliminary Site Investigation (PSI) at the Project Area in accordance with the H&H approved PSI Scope of Work (SOW), dated October 3, 2024. Field activities for the PSI were completed on October 25, 2024, during which a soil sample was collected for chemical analysis. The resulting information from the completed PSI was used to develop this Soil Disposal package.

PSI Sample Methodology

Based on the following two (2) factors, EDI collected soil characterization samples from the Project Area:

- Using the CDOT guidance of collecting one sample per 200 feet of roadway, EDI located a soil boring at the approximate midpoint of the Project Area. **The soil boring was designated as EDI-PESA13-001.** The approximate boring location is presented in **Attachment 1** of this document. A copy of the Boring log is included as **Attachment 2**.
- Based on the bottom elevations for the existing and proposed roadways from the construction drawings provided by Delta/CDOT, EDI proposed that soil boring EDI-PESA13-001 be advanced to a maximum depth of five feet below ground surface (ft bgs). EDI oversaw the installation of that soil boring on October 25, 2024.
- The recovered material was visually inspected for obvious signs of contamination to determine an appropriate sample location. The recovered material was also screened using a Photoionization Detector (PID) to identify portions of the material that may contain elevated levels of volatile organic compounds (VOCs) that would indicate impact from petroleum-based compounds.
- One (1) sample, EDI-PESA13-001, was collected from each 5-foot interval. The collected soil sample was placed into a clean, laboratory supplied container.
- EDI transported the collected sample under typical Chain of Custody procedures to Sterling Labs of Des Plaines, IL (Sterling Labs), an IEPA Environmental Laboratory Accreditation Program (IL ELAP) certified laboratory. The sample was analyzed for polynuclear aromatic compounds (PNAs), Resource Conservation and Recovery Act (RCRA) metals and pH. EDI also requested that the sample be analyzed for Toxicity Characteristic Leaching Procedure (TCLP) RCRA 8 metals and Code R waste characterization suite of analytes. EDI requested that analytical results be provided within rush laboratory analysis of 2 to 3 business days following sample drop off.

Data Evaluation

Upon receipt of the laboratory data, EDI reviewed the analytical results. The laboratory data was evaluated against CCDD MAC values and TACO Tier 1 Residential Soil Remediation Objectives as applicable.

This evaluation revealed the following:

- No PNA compounds exceeded their applicable MAC limit.
- No RCRA 8 metals exceeded their applicable MAC limit.
- No Code R analytes disqualified the soil from the Project Area from CCDD disposal based on the following:
 - Ignitability – passed.
 - Reactive Cyanide - passed.
 - Reactive Sulfide- passed.
 - Total Recoverable Phenolics - passed.
 - Free liquids - passed.
- The pH value for the sample was reported as being 6.72 pH units.

Based on the information presented above, EDI concluded that soil recovered from the South Hoyne Avenue Project Area qualified for disposal at a CCDD facility.

Disposal Volume Determination

Delta provided EDI with a set of construction drawings to use in the preparation of the PESA evaluation of the Project Area. These drawings were used in conjunction with Google Maps to determine that the Project Area comprised an area of approximately 9,150 square feet (sf).

In conjunction with an anticipated maximum excavation depth of 5 feet, a conversion factor of 27 cubic feet per cubic yard (cy), and a swell factor of 1.25 excavated cy versus in place cy, the expected disposal volume was determined to be **2,200 cy** (rounded).

Package Contents

EDI has prepared and included the following:

- A completed IEPA LPC-663 Form.
- The Boring Log for EDI-PESA13001.
- A Data Summary Table presenting the sample results compared to MAC limits.
- A Data Table showing the calculated Soil Disposal Volume.

- A partial copy of the Soil Analytical Report. Note the report contained data from a second Project Area that was sampled on the same date. The pages containing those data have been removed to avoid confusion.
- A figure showing the Soil Boring/Soil Sample location.

Closing

We hope this Soil Disposal package meets with your approval. If you have any questions, please contact Garth Daley (708-203-8672) or Nicole Butkus (715-559-9252) for any assistance. Thank you.

Respectfully,

Environmental Design International inc.



Nicole J. Butkus
Assistant Project Manager



Garth A. Daley, P.E.
Senior Environmental Engineer

Enclosed

- Attachment 1 – Completed LPC-663 Form
- Attachment 2 – Data Summary Table – Sample Results
- Attachment 3 – Data Summary Table – Sample Results
- Attachment 4 – Data Summary Table – Soil Volume Determination
- Attachment 5 – Soil Boring Location Figure
- Attachment 6 – Analytical Report – Partial Copy



*Environmental Design
International inc.*

Chicago & Baltimore

Ms. Grace Czystczon
Delta Engineering Group, LLC
Soil Disposal Package for Project Area 13
5215-5226 South Hoyne Avenue, Chicago, IL 60609
November 15, 2024

ATTACHMENT 1

COMPLETED IEPA LPC-663 FORM

DRAFT



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification

by Licensed Professional Engineer or Licensed Professional Geologist

for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

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

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

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

I. Source Location Information

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

Project Name: CDOT WPA Street Improvement PO # 114542 Office Phone Number, if available: N/A

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

5215-5226 South Hoyne Avenue (PESA 13)

City: Chicago State: IL Zip Code: 60609

County: Cook Township: Lake

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

Latitude: 41.79823 Longitude: -87.67686

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Google Maps

EPA Site Number(s), if assigned: BOL: N/A BOW: N/A BOA: N/A

Approximate Start Date (mm/dd/yyyy): Dec 2, 2024 Approximate End Date (mm/dd/yyyy): Feb 28, 2025

Estimated Volume of debris (cu. Yd.): 2,200

II. Owner/Operator Information for Source Site

Site Owner

Name: Chicago Department of Transportation (CDOT)

Street Address: 2 North LaSalle Street, Suite 820

PO Box: _____

City: Chicago State: IL

Zip Code: 60602-3702 Phone: 312-744-8092

Contact: Jaqulen Samuel

Email, if available: jaqulen.samuel@cityofchicago.org

Site Operator

Name: Chicago Department of Transportation (CDOT)

Street Address: 2 North LaSalle Street, Suite 820

PO Box: _____

City: Chicago State: IL

Zip Code: 60602-3702 Phone: 312-744-8092

Contact: Jaqulen Samuel

Email, if available: jaqulen.samuel@cityofchicago.org

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

Uncontaminated Soil Certification**III. Basis for Certification and Attachments**

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

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

A sample location was selected roughly at the midpoint of the 150 foot stretch of pavement (see included figure) . A soil boring was installed to a depth of 5 feet. The collected sample was chosen by visual and PID screening. An estimated 2200 cubic yards (cy) of soil will be excavated, so the number of samples is adequate based on a typical sampling ratio of 1 sample per 5000 cy.

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

A review of the sample results showed that all results were compliance with IEPA CCDD MAC standards. Summary tables showing sample results compared to the MAC standards and calculating the expected volume of soils are included in this package. The reported pH for the sample was 6.27 pH units. A copy of the Analytical Report is also included.

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

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

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

Company Name: Environmental Design International

Street Address: 33 West Monroe Street, Suite 1825

City: Chicago State: IL Zip Code: 60303-5326

Phone: 312-645-1400

Garth A. Daley

Printed Name:

Date:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:



P.E or L.P.G. Seal



Ms. Grace Czystczon
Delta Engineering Group, LLC
Soil Disposal Package for Project Area 13
5215-5226 South Hoyne Avenue, Chicago, IL 60609
November 15, 2024

ATTACHMENT 2
EDI-PESA-001 BORING LOG

DRAFT



Environmental Design International inc.
33 West Monroe St., Suite 1825
Chicago, IL, 60603

Environmental Design International inc.
Telephone: 312-345-1400

BORING NUMBER EDI-PESA13-001

PAGE 1 OF 1

CLIENT <u>Delta/CDOT</u>	ISGS SITE NAME _____
EDI PROJECT NUMBER <u>1827.006</u>	SITE LOCATION <u>Chicago, Cook County, IL</u>
DATE STARTED <u>10/25/24</u> LOGGED BY <u>J. Reinhofer</u>	SITE NAME <u>PESA 13 - South Hoyne Avenue</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Geoprobe</u>	AT TIME OF DRILLING <u>---</u>
LATITUDE <u>1869748.87</u> LONGITUDE <u>1163256.12</u>	AT END OF DRILLING <u>---</u>
COMPLETION DEPTH <u>5 ft</u>	AFTER DRILLING <u>---</u>

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0								
0.3								FILL - gravel, black and grey, loose, moist
1					PID = 0 ppm			FILL - greyish brown, silty clay and gravel, with trace sand, medium stiff, moist
2								
3	GP	100		3 to 4-foot depth interval soil sample collected for PNAs, RCRA/TCLP Metals, code R, and pH.	PID = 0 ppm			
3.0								(CL-ML) SILTY CLAY - greyish brown, trace pebble, stiff, moist
4						CL-ML		
5					PID = 0 ppm			
5.0								

The stratification lines represent approximate boundaries.
The transition may be gradual.

Bottom of borehole at 5.0 feet.

ATTACHMENT 3
DATA SUMMARY TABLE – SAMPLE RESULTS

DRAFT

Table 1

Created for:
Grace Czyszczon, Delta

Soil Analytical Results

CDOT PESA 13
5215-5226 South Hoyne Avenue
Chicago, IL 60609

		Laboratory ID :	O24J1065-01
		Customer Sample ID :	EDI-PESA13-001
		Date Collected :	10/25/2024
Analyte		Maximum Allowable Concentration	
Acenaphthene		570.0	<0.0175
Acetone		25.0	---
Anthracene		12000.0	<0.0263
Arsenic	within a MSA county	13.0	7.73
	within a non-MSA county	11.3	7.73
Barium		1500.0	48.1
Benzene		0.03	---
Benz(a)anthracene	within a populated area in MSA excluding Chicago	1.8	<0.0263
	within a populated area in non-MSA county or outside populated area	0.9	<0.0263
Benzo(b)fluoranthene	within a populated area in MSA excluding Chicago	2.1	<0.0263
	within a populated area in non-MSA county or outside populated area	0.9	<0.0263
Benzo(k)fluoranthene		9.0	<0.0351
Benzoic acid		400.0	---
Benzo(a)pyrene	within a populated area in MSA excluding Chicago	2.1	<0.0702
	within a populated area in non-MSA county	0.98	<0.0702
	outside populated area	0.09	<0.0702
Bis(2-chloroethyl)ether		0.66	---
Bis(2-ethylhexyl)phthalate		46.0	---
Bromodichloromethane		0.6	---
Butyl benzyl phthalate		930.0	---
Cadmium		5.2	<0.262
Carbazole		0.6	---
Carbon disulfide		9.0	---
Carbon tetrachloride		0.07	---
4-Chloroaniline		0.7	---
Chlorobenzene		1.0	---
Dibromochloromethane		0.4	---
Chloroform		0.3	---
2-Chlorophenol		1.5	---
Chromium		21.0	16.2
Chromium, TCLP*		0.1	---
Chrysene		88.0	<0.0175
Dibenz(a,h)anthracene	within a populated area in MSA excluding Chicago	0.42	<0.0263
	within a populated area in non-MSA county	0.15	<0.0263
Di-n-butyl phthalate		2300.0	---
1,2-Dichlorobenzene		17.0	---
1,4-Dichlorobenzene		2.0	---
3,3'-Dichlorobenzidine		1.3	---
1,1-Dichloroethane		23.0	---

Table 1

Created for:
Grace Czyszczon, Delta

Soil Analytical Results

CDOT PESA 13
5215-5226 South Hoyne Avenue
Chicago, IL 60609

		Laboratory ID :	O24J1065-01
		Customer Sample ID :	EDI-PESA13-001
		Date Collected :	10/25/2024
Analyte		Maximum Allowable Concentration	
1,2-Dichloroethane		0.02	---
1,1-Dichloroethene		0.06	---
cis-1,2-Dichloroethene		0.4	---
trans-1,2-Dichloroethene		0.7	---
2,4-Dichlorophenol		0.48	---
1,2-Dichloropropane		0.03	---
cis-1,3-Dichloropropene		0.005	---
trans-1,3-Dichloropropene		0.005	---
Diethyl phthalate		470.0	---
2,4-Dimethylphenol		9.0	---
2,4-Dinitrophenol		3.3	---
2,4-Dinitrotoluene		0.25	---
2,6-Dinitrotoluene		0.26	---
Di-n-octyl phthalate		1600.0	---
Ethylbenzene		13.0	---
Fluoranthene		3100.0	<0.0263
Fluorene		560.0	<0.0175
Hexachlorobenzene		0.4	---
Hexachlorocyclopentadiene		1.1	---
Hexachloroethane		0.5	---
Indeno(1,2,3-cd)pyrene	within a populated area in MSA excluding Chicago	1.6	<0.0263
	within Chicago corporate limits or a populated area in non-MSA county or outside a populated area	0.9	<0.0263
Isophorone		8.0	
Lead		107.0	12
Mercury	elemental (analyzed as total mercury)	0.1	<0.0503
	ionic (analyzed as total mercury)	0.89	<0.0503
Bromomethane		0.2	---
Methyl tert-butyl ether		0.32	---
Methylene chloride		0.02	---
2-Methylphenol		15.0	---
Naphthalene		1.8	<0.0263
Nitrobenzene		0.26	---
N-Nitrosodiphenylamine		1.0	---
N-Nitrosodi-n-propylamine		0.0018	---
Pentachlorophenol		0.02	---
Phenol		100.0	---
Aroclor 1016		1.0	<0.0230
Aroclor 1221		1.0	<0.0690
Aroclor 1232		1.0	<0.0920
Aroclor 1242		1.0	<0.0345
Aroclor 1248		1.0	<0.0345
Aroclor 1254		1.0	0.234
Aroclor 1260		1.0	<0.0345

Table 1

Created for:
Grace Czyszczon, Delta

Soil Analytical Results

CDOT PESA 13
5215-5226 South Hoyne Avenue
Chicago, IL 60609

		Laboratory ID :	O24J1065-01
		Customer Sample ID :	EDI-PESA13-001
		Date Collected :	10/25/2024
Analyte		Maximum Allowable Concentration	
Pyrene		2300.0	<0.0263
Selenium		1.3	<0.525
Selenium, TCLP*		0.05	<0.0250
Silver		4.4	<0.525
Styrene		4.0	---
Tetrachloroethene		0.06	---
Toluene		12.0	---
1,2,4-Trichlorobenzene		5.0	---
1,1,1-Trichloroethane		2.0	---
1,1,2-Trichloroethane		0.02	---
Trichloroethene		0.06	---
2,4,5-Trichlorophenol		26.0	---
2,4,6-Trichlorophenol		0.66	---
Vinyl chloride		0.01	---
Xylenes, Total		5.6	---
pH		6.25 - 9.0	6.27

Key:

--- = No result reported.

Chemical Constituents in Uncontaminated Soil Used as Fill Material at Regulated Fill Operations (MAC) standard.

TCLP - Toxicity Characteristic Leaching Procedure

* = Value is the TACO Class I Soil Component of the Groundwater Ingestion Exposure Route

ATTACHMENT 4

DATA SUMMARY TABLE – SOIL DISPOSAL VOLUME

DRAFT

Table 2

Soil Disposal Volumes

CDOT PESA 13
 5215-5226 South Hoyne Avenue
 Chicago, Illinois 60609

Soil Boring	Sample Collection Interval (ft. bgs)	Boring Depth (ft. bgs)	Potentially Impacted Area (ft ²)	Estimated Volume (yd ³)	Estimated Disposal Volume (yd ³)	Exceedence	CCDD Status
EDI-PESA13-001	0-5	5	9150	1694	2118	None	Yes

TOTAL (CCDD)			9150	1694	2200		
TOTAL (LANDFILL)			N/A	N/A	N/A		
TOTAL (SITE - FT²)			9150	N/A	N/A		
TOTAL (SITE - ACRE)			0.21	N/A	N/A		

Key:

bgs = below ground surface.

ft = feet.

ft² = square feet

yd³ = cubic yard

Notes

1. Potentially Impacted Areas were determined using the area measurement tool in Google Maps, then rounding up to the next 50 square feet (ft²).
2. Estimated Volume in cubic yards (cy) was calculated by multiplying the Potentially Impacted Area in ft² by the Termination depth (ft bgs) then dividing by 27.
3. Estimated Disposal Volume was calculated by multiplying the Estimated Volume in cy by a swell factor of 1.25.



*Environmental Design
International inc.*

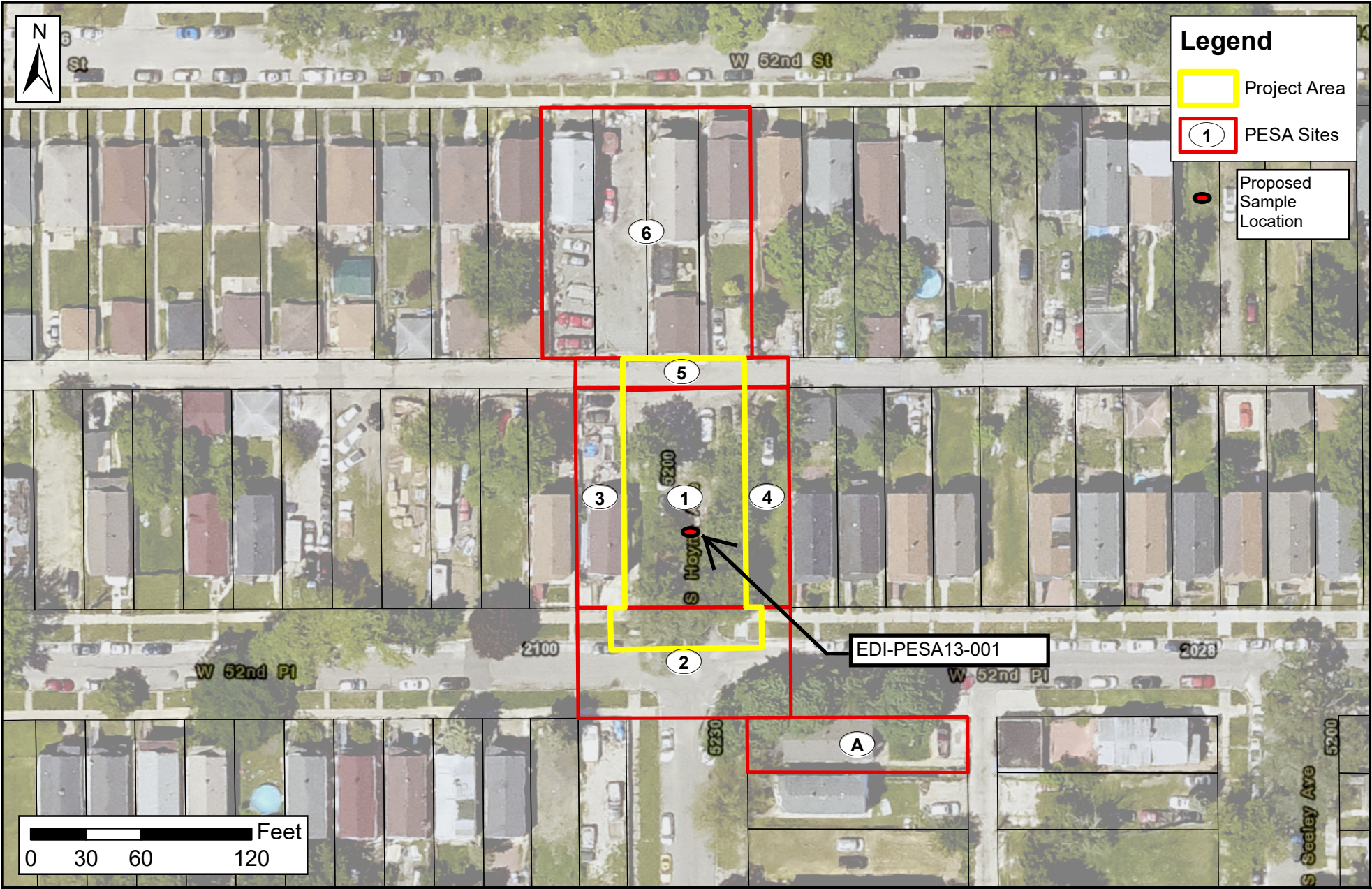
Chicago & Baltimore

Ms. Grace Czyszczon
Delta Engineering Group, LLC
Soil Disposal Package for Project Area 13
5215-5226 South Hoyne Avenue, Chicago, IL 60609
November 15, 2024

ATTACHMENT 5

SOIL BORING/SOIL SAMPLE LOCATION FIGURE

DRAFT



EDI
Environmental Design International inc.
 33 W. MONROE STREET, SUITE 1825,
 CHICAGO, IL 60603
 Ph. (312) 345-1400 Fax (312) 345-0529

PREPARED FOR:

 **CDOT**
 Chicago Department
 of Transportation

Figure 1
 Sample Location Figure
 Preliminary Environmental Site Assessment
 5226-5215 South Hoyne Avenue, Chicago, IL 60609

PROJECT NO: 1827.006
 DATE: 11/15/2024
 DRAWN BY: NJB
 APPROVED BY: GD



*Environmental Design
International inc.*

Chicago & Baltimore

Ms. Grace Czystczon
Delta Engineering Group, LLC
Soil Disposal Package for Project Area 13
5215-5226 South Hoyne Avenue, Chicago, IL 60609
November 15, 2024

ATTACHMENT 6

ANALYTICAL REPORT – PARTIAL COPY

DRAFT



sterling labs

- O'Hare Location

509 N. 3rd Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 www.thesterlinglab.com

November 04, 2024

Environmental Design International, Inc.
33 West Monroe Street Suite 1825
Chicago, IL 60603

Telephone: (312) 345-0461
Fax: (312) 345-0529

Analytical Report for Work Order: O24J1065 Revision 1

RE: 1827.006, CDOT WPA PSI, 5215-5226 S. Hoyne Ave., 2345-2360 S. Harding Ave., Chicago, IL

Dear Environmental Design International, Inc.:

Sterling Labs has received 3 samples for the referenced project on October 25, 2024 11:34. The analytical results are presented in the following report.

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

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

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

Sincerely,

Justice Kwateng
Project Manager

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



Customer: Environmental Design International, Inc.

Work Order Sample Summary

Project: 1827.006, CDOT WPA PSI, 5215-5226 S. Hoyne Ave., 2345-2360
S. Harding Ave., Chicago, IL

WorkOrder: O24J1065

Laboratory ID	Sample ID	Tag Number	Collection Date	Date Received
O24J1065-01	EDI-PESA13-001		10/25/24 08:47	10/25/24 11:34
O24J1065-02	EDI-PESA14-001		10/25/24 09:53	10/25/24 11:34
O24J1065-03	EDI-PESA14-002		10/25/24 10:06	10/25/24 11:34



Customer: Environmental Design International, Inc.

Project: 1827.006, CDOT WPA PSI, 5215-5226 S. Hoyne Ave., 2345-2360 S. Harding Ave., Chicago, IL

Case Narrative

WorkOrder: O24J1065

Work Order: O24J1065

The samples were received on 10/25/2024 11:34:00 AM. The temperature of the cooler(s) at receipt was:

Cooler:	Temp C
Default Cooler	0.4

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

At the customers request, sample EDI-PESA13-01 (O24J1065-01) was re-analyzed for pH. The results of the re-analysis are presented in this report.

GCMS Semivolatiles

8270 SVOC

O24J1065-01: The surrogate recoveries are above control criteria. There are no target compounds detections.

B24J1542-BS1: The recovery of Benzoic acid is outside control criteria (22%- 118%) at 7%.

GCMS Volatiles

8260 VOC

B24J1563-BS1/BSD1: The recovery of Chloromethane exceeded control criteria (70% to 130%) at 141% in the BS and 135% in the BSD and the recovery of Vinyl chloride exceeded control criteria (70% to 130%) at 140% in the BS and 132% in the BSD. As there were no detection for the compounds in the sample, this exceedance would not impact sample data.

8260B VOC

B24J1688-BSD1 had an elevated recovery above the 70 to 130% control limits for Vinyl chloride at 131%. The compound was non-detected in the reported samples.

Inorganics

9095B Paint filter

The paint filter test for the following samples failed according to EPA Method SW-846 9095B. The sample contained fines that passed through the paint filter which meets the definition of a free liquid according to SW-846 9095B. No liquid was observed in the following samples:

EDI-PESA13-001 (O24J1065-01)

EDI-PESA14-001 (O24J1065-02)



Date Reported: 11/4/2024

Date Printed: 11/4/2024

Analytical Results

Customer: Environmental Design International, Inc.
Work Order: O24J1065
Project: 1827.006, CDOT WPA PSI, 5215-5226 S. Hoyne Ave, 2345-2360

Client Sample ID: EDI-PESA13-001
Collection Date: 10/25/2024 08:47
Matrix: Soil

Lab ID: O24J1065-01

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains three sections of data: Volatile Organic Compounds by GC/MS, Semivolatile Organic Compounds by GC/MS, and Semivolatile Organic Compounds by GC/MS.



Date Reported: 11/4/2024
Date Printed: 11/4/2024

Analytical Results

Customer: Environmental Design International, Inc. Client Sample ID: EDI-PESA13-001
Work Order: O24J1065 Collection Date: 10/25/2024 08:47
Project: 1827.006, CDOT WPA PSI, 5215-5226 S. Hoyne Ave, 2345-2360 Matrix: Soil
Lab ID: O24J1065-01 (Continued)

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Semivolatile Organic Compounds by GC/MSW8270D / SW3550. Rows include Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene.

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Polychlorinated Biphenyls (PCBs) by GC/ESW8082A / SW3546. Rows include Aroclor 1016, Aroclor 1221, Aroclor 1232, Aroclor 1242, Aroclor 1248, Aroclor 1254, Aroclor 1260.

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Metals by ICP-MS SW6020 B / SW3050. Rows include Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver.

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Metals by ICP-MS SW6020B / SW1311 / SW3015. Rows include Arsenic TCLP, Barium TCLP, Cadmium TCLP, Chromium TCLP, Lead TCLP, Selenium TCLP, Silver TCLP.



Date Reported: 11/4/2024
Date Printed: 11/4/2024

Analytical Results

Customer: Environmental Design International, Inc.
Work Order: O24J1065
Project: 1827.006, CDOT WPA PSI, 5215-5226 S. Hoyne Ave., 2345-2360

Client Sample ID: EDI-PESA13-001
Collection Date: 10/25/2024 08:47
Matrix: Soil

Lab ID: O24J1065-01 (Continued)

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
Mercury by CVAA ILEPA 100256	SW7470A / SW1311					Prep Date: 10/29/24 14:45	Analyst: UJ1	
Mercury TCLP	ND	0.00040		mg/L	1	10/29/2024	B24J1611	S24J1007
Mercury by CVAA ILEPA 100256	SW7471B					Prep Date: 10/28/24 11:05	Analyst: UJ1	
Mercury	ND	0.0503		mg/Kg dry	1	10/28/2024	B24J1509	S24J0931
Wet Chemistry	ASTM D92-90					Prep Date: 10/25/24 15:51	Analyst: AA1	
Ignitability (open cup)	>180	35.0	*	°F	1	10/30/2024	B24J1470	
Wet Chemistry	SM2540G					Prep Date: 10/25/24 18:25	Analyst: AS8	
Total Solids	84.6	0.100	*	% (Percent)	1	10/28/2024	B24J1476	
Wet Chemistry	SW7.3.3.2/9014 by Discrete					Prep Date: 10/28/24 06:07	Analyst: LN2	
Reactive Cyanide	ND	3.71	*	mg/Kg	1	10/28/2024	B24J1484	S24J0928
Wet Chemistry	SW7.3.4.2					Prep Date: 10/28/24 06:29	Analyst: AN3	
Reactive Sulfide	ND	18.6	*	mg/Kg	2	10/28/2024	B24J1485	
Wet Chemistry ILEPA 100256	SW9045C					Prep Date: 11/04/24 12:18	Analyst: DM2	
pH	6.27			pH Units	1	11/04/2024	B24K0113	
Wet Chemistry ILEPA 100256	SW9065					Prep Date: 10/29/24 10:32	Analyst: LN2	
Phenolics, Total Recoverable	ND	0.116		mg/Kg dry	1	10/29/2024	B24J1562	S24J0974
Wet Chemistry ILEPA 100256	SW9095					Prep Date: 10/25/24 12:30	Analyst: AA1	
Free Liquid	No Liquid			Pass/Fail	1	10/28/2024	B24J1418	



509 N. 3rd Ave., Des Plaines, IL 60016 Phone: (800) 246-0663
 2242 W. Harrison St., Suite 200, Chicago, IL 60612 Phone: (312) info@thesterlinglab.com



O24J1065
 PM: Justice Kwateng

No: 103153

Page: 1 of 1

CHAIN OF CUSTODY Environmental Design International, Inc.

Company: EDI
 Project Number: 1827-006 Client Tracking No.: _____
 Project Name: CDOT WPA PSI
 Project Location: 5215-5226 S Hayne Ave, 2345-2360 S Harding Ave, Chicago, IL
 Sampler(s): Joe Reinhofer
 Report To: Garth Daley Phone: (708) 203-8672
 QC Level: 1 2 3 4 e-mail: gdaley@edwdesigni.com
 Fax: _____

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	PNAS	RCRA Metals	PH	BTEX	VOCs	SVOCs	MTBE	Total Lead	TCLP Metals	Code R	TCLP VOCs
<u>EDI-PESA13-001</u>	<u>10/25/24</u>	<u>0847</u>	<u>S</u>		<u>X</u>		<u>5</u>	<u>X</u>	<u>X</u>	<u>X</u>						<u>X</u>	<u>X</u>	
<u>EDI-PESA14-001</u>	<u>↓</u>	<u>0953</u>	<u>↓</u>		<u>↓</u>		<u>↓</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>EDI-PESA14-002</u>	<u>↓</u>	<u>1006</u>	<u>↓</u>		<u>↓</u>		<u>↓</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>X</u>	<u>X</u>					

P.O. No.: _____
 Quote No.: _____
 Turn Around Time (Days):
 1 2 (3) 4 5-7 10
 Results Needed:
 / / am/pm
 Remarks: _____
 Lab No.: _____

Relinquished by: (Signature) <u>Joe Reinhofer</u>	Date/Time: <u>10/25 11:34</u>	Comments: <u>CHZ</u>	Laboratory Work Order No.: <u>024151065</u>
Received by: (Signature) <u>[Signature]</u>	Date/Time: <u>10/25/24 11:34</u>		
Relinquished by: (Signature) <u>[Signature]</u>	Date/Time: <u>10/25/24 15:07</u>	Preservation Code: A = None B = HNO ₃ C = NaOH D = H ₂ SO ₄ E = HCl F = 5035/EnCore G = Other	Received on Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received by: (Signature) <u>Mid 77</u>	Date/Time: <u>10.25.24 15:07</u>		
Relinquished by: (Signature) <u>Mid 77</u>	Date/Time: <u>10.25.24 16:39</u>	Temperature: <u>0.4</u> °C <u>CHZ</u>	
Received by: (Signature) <u>[Signature]</u>	Date/Time: <u>10/25/24 16:39</u>		

Sample Receipt Checklist

Work Order: O24J1065

Printed: 10/25/2024 6:08:10PM

Client: Environmental Design International, Inc.
Project: Soil Analysis

Date Due: Wednesday, October 30, 2024

Received By: Erin Kripke
Logged In By: Alan Slavick

Date Received: 10/25/2024 11:34:00AM
Date Logged In: 10/25/2024 6:04:00PM

Cooler Name: Default Cooler

How were samples received: Courier

Cooler temperature at of below 6 degrees Celsius: Yes

Chain of Custody present and properly completed : Yes

Turnaround Time is indicated and specified: Yes

Chain of Custody agrees with sample labels: Yes

Samples received within hold time: Yes

Proper sample containers received intact: Yes

Sufficient sample volume: Yes

Containers properly preserved: Yes

Custody seals present: No

Volatile water vials received: No

Samples going out of hold time within 24 hours:

Sample Receipt Comments

Work Order: O24J1065

The samples were received on 10/25/2024 11:34:00 AM. The temperature of the cooler(s) at receipt was:

Cooler:	Temp C
Default Cooler	0.4

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

AS

10/25/2024

Reviewed By:

Date:



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
NELAP - RECOGNIZED
ENVIRONMENTAL LABORATORY ACCREDITATION

is hereby granted to

Sterling Labs (fka Environmental Monitoring and Tech)

509 N.3rd Avenue
Des Plaines, IL 60016

NELAP ACCREDITED

Accreditation Number #100256



According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part 186 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part 186. Please contact the Illinois EPA Environmental Laboratory Accreditation Program (IL ELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Illinois is not an endorsement or a guarantee of validity of the data generated by the laboratory.

Primary Accrediting Authority: Illinois

Millie Rose
 Supervisor
 Environmental Laboratory Accreditation Program

Certificate No: 1002562024-21

Expiration Date: 7/31/2025

Issued On: 8/13/2024

State of Illinois Environmental Protection Agency

Awards the Certificate of Approval to:

Sterling Labs (fka Environmental Monitoring and Tech)
509 N.3rd Avenue
Des Plaines, IL 60016

The Illinois Environmental Laboratory Accreditation Program encourages all clients and data users to verify the most current scope of accreditation for Sterling Labs (fka Environmental Monitoring and Tech).

Certificate No.: 1002562024-21

Primary AB

Field of Testing /Matrix: CWA (Non Potable Water)

Method EPA 1664B

Oil & Grease IL

Method EPA 180.1 Rev: 2

Turbidity IL

Method EPA 200.7 Rev: 4.4

Aluminum IL

Antimony IL

Arsenic IL

Barium IL

Beryllium IL

Boron IL

Cadmium IL

Calcium IL

Chromium IL

Cobalt IL

Copper IL

Iron IL

Lead IL

Magnesium IL

Manganese IL

Molybdenum IL

Nickel IL

Phosphorus IL

Potassium IL

Selenium IL

Silver IL

Sodium IL

Thallium IL

Tin IL

Titanium IL

Vanadium IL

Zinc IL

Method EPA 200.8 Rev: 5.4

Aluminum IL

Antimony IL

Arsenic IL

Barium IL

Beryllium IL

Boron IL

Field of Testing /Matrix: CWA (Non Potable Water)

Cadmium	IL
Calcium	IL
Chromium	IL
Cobalt	IL
Copper	IL
Hardness (calc.)	IL
Iron	IL
Lead	IL
Magnesium	IL
Manganese	IL
Molybdenum	IL
Nickel	IL
Potassium	IL
Selenium	IL
Silver	IL
Sodium	IL
Thallium	IL
Tin	IL
Titanium	IL
Vanadium	IL
Zinc	IL

Method EPA 245.1 Rev: 3

Mercury	IL
---------	----

Method EPA 300.0 Rev: 2.1

Bromide	IL
Chloride	IL
Fluoride	IL
Nitrate	IL
Nitrate plus Nitrite as N	IL
Nitrate-nitrite	IL
Nitrite	IL
Sulfate	IL

Method EPA 350.1 Rev: 2

Ammonia as N	IL
--------------	----

Method EPA 420.1

Total phenolics	IL
-----------------	----

Method EPA 608.3 GC-ECD

4,4'-DDD	IL
4,4'-DDE	IL
4,4'-DDT	IL
Aldrin	IL
alpha-BHC (alpha-Hexachlorocyclohexane)	IL
Aroclor-1016 (PCB-1016)	IL
Aroclor-1221 (PCB-1221)	IL
Aroclor-1232 (PCB-1232)	IL
Aroclor-1242 (PCB-1242)	IL
Aroclor-1248 (PCB-1248)	IL
Aroclor-1254 (PCB-1254)	IL
Aroclor-1260 (PCB-1260)	IL
beta-BHC (beta-Hexachlorocyclohexane)	IL
Chlordane (tech.)(N.O.S.)	IL

Field of Testing /Matrix: CWA (Non Potable Water)

delta-BHC	IL
Dieldrin	IL
Endosulfan I	IL
Endosulfan II	IL
Endosulfan sulfate	IL
Endrin	IL
Endrin aldehyde	IL
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	IL
Heptachlor	IL
Heptachlor epoxide	IL
Methoxychlor	IL
Toxaphene (Chlorinated camphene)	IL

Method EPA 624.1

1,1,1-Trichloroethane	IL
1,1,2,2-Tetrachloroethane	IL
1,1,2-Trichloroethane	IL
1,1-Dichloroethane	IL
1,1-Dichloroethylene	IL
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Dichloroethane (Ethylene dichloride)	IL
1,2-Dichloropropane	IL
1,3-Dichlorobenzene	IL
1,4-Dichlorobenzene	IL
2-Chloroethyl vinyl ether	IL
Acetonitrile	IL
Acrolein (Propenal)	IL
Acrylonitrile	IL
Benzene	IL
Bromodichloromethane	IL
Bromoform	IL
Carbon tetrachloride	IL
Chlorobenzene	IL
Chlorodibromomethane	IL
Chloroethane (Ethyl chloride)	IL
Chloroform	IL
cis-1,3-Dichloropropene	IL
Ethylbenzene	IL
Methyl bromide (Bromomethane)	IL
Methyl chloride (Chloromethane)	IL
Methyl tert-butyl ether (MTBE)	IL
Methylene chloride (Dichloromethane)	IL
Tetrachloroethylene (Perchloroethylene)	IL
Toluene	IL
trans-1,2-Dichloroethylene	IL
trans-1,3-Dichloropropylene	IL
Trichloroethene (Trichloroethylene)	IL
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	IL
Vinyl chloride	IL
Xylene (total)	IL

Method EPA 625.1

1,2,4-Trichlorobenzene	IL
------------------------	----

Field of Testing /Matrix: CWA (Non Potable Water)

1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,3-Dichlorobenzene	IL
1,4-Dichlorobenzene	IL
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	IL
2,4,5-Trichlorophenol	IL
2,4,6-Trichlorophenol	IL
2,4-Dichlorophenol	IL
2,4-Dimethylphenol	IL
2,4-Dinitrophenol	IL
2,4-Dinitrotoluene (2,4-DNT)	IL
2,6-Dinitrotoluene (2,6-DNT)	IL
2-Chloronaphthalene	IL
2-Chlorophenol	IL
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	IL
2-Nitrophenol	IL
3,3'-Dichlorobenzidine	IL
4-Bromophenyl phenyl ether	IL
4-Chloro-3-methylphenol	IL
4-Chlorophenyl phenylether	IL
4-Nitrophenol	IL
Acenaphthene	IL
Acenaphthylene	IL
Anthracene	IL
Benzidine	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL
Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL
bis(2-Chloroethoxy)methane	IL
bis(2-Chloroethyl) ether	IL
bis(2-Ethylhexyl) phthalate (DEHP)	IL
Butyl benzyl phthalate	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Diethyl phthalate	IL
Dimethyl phthalate	IL
Di-n-butyl phthalate	IL
Di-n-octyl phthalate	IL
Fluoranthene	IL
Fluorene	IL
Hexachlorobenzene	IL
Hexachlorobutadiene	IL
Hexachlorocyclopentadiene	IL
Hexachloroethane	IL
Indeno(1,2,3-cd) pyrene	IL
Isophorone	IL
Naphthalene	IL
Nitrobenzene	IL
n-Nitrosodimethylamine	IL
n-Nitrosodi-n-propylamine	IL
n-Nitrosodiphenylamine	IL

Field of Testing /Matrix: CWA (Non Potable Water)

Pentachlorophenol	IL
Phenanthrene	IL
Phenol	IL
Pyrene	IL
Method HACH 8000	
Chemical oxygen demand	IL
Method SM 2320 B-2011	
Alkalinity as CaCO ₃	IL
Method SM 2340 B-2011	
Hardness	IL
Method SM 2540 B-2011	
Residue-total	IL
Method SM 2540 C-2011	
Residue-filterable (TDS)	IL
Method SM 2540 D-2011	
Residue-nonfilterable (TSS)	IL
Method SM 3500-Cr B-2011	
Chromium VI	IL
Method SM 4500-Cl G-2011	
Total residual chlorine	IL
Method SM 4500-CN⁻ E-2011	
Cyanide	IL
Method SM 4500-CN⁻ G-2011	
Amenable cyanide	IL
Method SM 4500-H⁺ B-2011	
pH	IL
Method SM 4500-NH₃ C-2011	
Ammonia as N	IL
Total Kjeldahl Nitrogen (TKN)	IL
Method SM 4500-NH₃ G-2011	
Ammonia	IL
Method SM 4500-NH₃ H-2011	
Ammonia	IL
Method SM 4500-NO₂⁻ B-2011	
Nitrite	IL
Method SM 4500-NO₃⁻ E-2011	
Nitrate	IL
Method SM 4500-P E-2011	
Phosphorus	IL
Method SM 4500-P F-2011	
Orthophosphate as P	IL
Phosphorus	IL
Method SM 4500-S₂⁻ D-2011	
Sulfide	IL
Method SM 4500-S₂⁻ F-2011	
Sulfide	IL
Method SM 4500-SiO₂ C-2011	

Field of Testing /Matrix: CWA (Non Potable Water)

Silica as SiO ₂	IL
Method SM 4500-SO₃⁻ B-2011	
Sulfite-SO ₃	IL
Method SM 5210 B-2011	
Biochemical oxygen demand	IL
Carbonaceous BOD, CBOD	IL
Method SM 5310 B-2011	
Total organic carbon	IL

Field of Testing /Matrix: RCRA (Non Potable Water)**Method EPA 1010A**

Ignitability IL

Method EPA 1311 Rev: 0

Toxicity Characteristic Leaching Procedure (TCLP) IL

Method EPA 1312 Rev: 0

Synthetic Precipitation Leaching Procedure (SPLP) IL

Method EPA 6010D

Aluminum IL

Antimony IL

Arsenic IL

Barium IL

Beryllium IL

Boron IL

Cadmium IL

Calcium IL

Chromium IL

Cobalt IL

Copper IL

Iron IL

Lead IL

Magnesium IL

Manganese IL

Molybdenum IL

Nickel IL

Potassium IL

Selenium IL

Silver IL

Sodium IL

Strontium IL

Thallium IL

Tin IL

Titanium IL

Vanadium IL

Zinc IL

Method EPA 6020B

Aluminum IL

Antimony IL

Arsenic IL

Barium IL

Beryllium IL

Boron IL

Cadmium IL

Calcium IL

Chromium IL

Cobalt IL

Copper IL

Iron IL

Lead IL

Magnesium IL

Manganese IL

Molybdenum IL

Field of Testing /Matrix: RCRA (Non Potable Water)

Nickel	IL
Potassium	IL
Selenium	IL
Silver	IL
Sodium	IL
Thallium	IL
Tin	IL
Titanium	IL
Vanadium	IL
Zinc	IL

Method EPA 7196A Rev: 1

Chromium VI	IL
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Method EPA 7470A Rev: 1

Mercury	IL
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Method EPA 8011

1,2,3-Trichloropropane	IL
1,2-Dibromo-3-chloropropane (DBCP)	IL
1,2-Dibromoethane (EDB, Ethylene dibromide)	IL

Method EPA 8015B Rev: 2

Ethylene glycol	IL
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Method EPA 8015D

Diesel range organics (DRO)	IL
Ethanol	IL
Gasoline range organics (GRO)	IL
Isopropyl alcohol (2-Propanol, Isopropanol)	IL
Methanol	IL
n-Propanol (1-Propanol)	IL
tert-Butyl alcohol	IL

Method EPA 8081B Rev: 2

4,4'-DDD	IL
4,4'-DDE	IL
4,4'-DDT	IL
Alachlor	IL
Aldrin	IL
alpha-BHC (alpha-Hexachlorocyclohexane)	IL
alpha-Chlordane, cis-Chlordane	IL
Atrazine	IL
beta-BHC (beta-Hexachlorocyclohexane)	IL
Chlordane (tech.)(N.O.S.)	IL
delta-BHC	IL
Dieldrin	IL
Endosulfan I	IL
Endosulfan II	IL
Endosulfan sulfate	IL
Endrin	IL
Endrin aldehyde	IL
Endrin ketone	IL
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	IL
gamma-Chlordane	IL
Heptachlor	IL

Field of Testing /Matrix: RCRA (Non Potable Water)

Heptachlor epoxide	IL
Methoxychlor	IL
Toxaphene (Chlorinated camphene)	IL

Method EPA 8082A

Aroclor-1016 (PCB-1016)	IL
Aroclor-1221 (PCB-1221)	IL
Aroclor-1232 (PCB-1232)	IL
Aroclor-1242 (PCB-1242)	IL
Aroclor-1248 (PCB-1248)	IL
Aroclor-1254 (PCB-1254)	IL
Aroclor-1260 (PCB-1260)	IL

Method EPA 8260B

1,1,1,2-Tetrachloroethane	IL
1,1,1-Trichloroethane	IL
1,1,2,2-Tetrachloroethane	IL
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	IL
1,1,2-Trichloroethane	IL
1,1-Dichloroethane	IL
1,1-Dichloroethylene	IL
1,1-Dichloropropene	IL
1,2,3-Trichlorobenzene	IL
1,2,3-Trichloropropane	IL
1,2,4-Trichlorobenzene	IL
1,2,4-Trimethylbenzene	IL
1,2-Dibromo-3-chloropropane (DBCP)	IL
1,2-Dibromoethane (EDB, Ethylene dibromide)	IL
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Dichloroethane (Ethylene dichloride)	IL
1,2-Dichloropropane	IL
1,3,5-Trichlorobenzene	IL
1,3,5-Trimethylbenzene	IL
1,3-Dichlorobenzene	IL
1,3-Dichloropropane	IL
1,4-Dichlorobenzene	IL
1,4-Dioxane (1,4- Diethyleneoxide)	IL
2,2-Dichloropropane	IL
2-Butanone (Methyl ethyl ketone, MEK)	IL
2-Chloroethyl vinyl ether	IL
2-Chlorotoluene	IL
2-Hexanone	IL
4-Chlorotoluene	IL
4-Isopropyltoluene (p-Cymene,p-Isopropyltoluene)	IL
4-Methyl-2-pentanone (MIBK)	IL
Acetone	IL
Acetonitrile	IL
Acrolein (Propenal)	IL
Acrylonitrile	IL
Allyl chloride (3-Chloropropene)	IL
Benzene	IL
Bromobenzene	IL
Bromochloromethane	IL

Field of Testing /Matrix: RCRA (Non Potable Water)

Bromodichloromethane	IL
Bromoform	IL
Carbon disulfide	IL
Carbon tetrachloride	IL
Chlorobenzene	IL
Chlorodibromomethane	IL
Chloroethane (Ethyl chloride)	IL
Chloroform	IL
Chloroprene (2-Chloro-1,3-butadiene)	IL
cis-1,2-Dichloroethylene	IL
cis-1,3-Dichloropropene	IL
Dibromofluoromethane	IL
Dibromomethane (Methylene bromide)	IL
Dichlorodifluoromethane (Freon-12)	IL
Diethyl ether	IL
Ethyl acetate	IL
Ethylbenzene	IL
Hexachlorobutadiene	IL
Isobutyl alcohol (2-Methyl-1-propanol)	IL
Isopropyl alcohol (2-Propanol, Isopropanol)	IL
Isopropylbenzene	IL
m+p-xylene	IL
Methacrylonitrile	IL
Methyl bromide (Bromomethane)	IL
Methyl chloride (Chloromethane)	IL
Methyl methacrylate	IL
Methyl tert-butyl ether (MTBE)	IL
Methylene chloride (Dichloromethane)	IL
m-Xylene	IL
Naphthalene	IL
n-Butyl alcohol (1-Butanol, n-Butanol)	IL
n-Butylbenzene	IL
n-Propanol (1-Propanol)	IL
n-Propylbenzene	IL
o-Xylene	IL
Propionitrile (Ethyl cyanide)	IL
p-Xylene	IL
sec-Butylbenzene	IL
Styrene	IL
tert-Butylbenzene	IL
Tetrachloroethylene (Perchloroethylene)	IL
Tetrahydrofuran (THF)	IL
Toluene	IL
trans-1,2-Dichloroethylene	IL
trans-1,3-Dichloropropylene	IL
trans-1,4-Dichloro-2-butene	IL
Trichloroethene (Trichloroethylene)	IL
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	IL
Vinyl acetate	IL
Vinyl chloride	IL
Xylene (total)	IL

Method EPA 8260D

Field of Testing /Matrix: RCRA (Non Potable Water)

1,1,1,2-Tetrachloroethane	IL
1,1,1-Trichloroethane	IL
1,1,2,2-Tetrachloroethane	IL
1,1,2-Trichloroethane	IL
1,1-Dichloroethane	IL
1,1-Dichloroethylene	IL
1,1-Dichloropropene	IL
1,2,3-Trichlorobenzene	IL
1,2,3-Trichloropropane	IL
1,2,4-Trichlorobenzene	IL
1,2,4-Trimethylbenzene	IL
1,2-Dibromo-3-chloropropane (DBCP)	IL
1,2-Dibromoethane (EDB, Ethylene dibromide)	IL
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Dichloroethane (Ethylene dichloride)	IL
1,2-Dichloropropane	IL
1,3,5-Trimethylbenzene	IL
1,3-Dichlorobenzene	IL
1,3-Dichloropropane	IL
1,4-Dichlorobenzene	IL
1,4-Dioxane (1,4- Diethyleneoxide)	IL
2,2-Dichloropropane	IL
2-Butanone (Methyl ethyl ketone, MEK)	IL
2-Chloroethyl vinyl ether	IL
2-Chlorotoluene	IL
2-Hexanone	IL
4-Chlorotoluene	IL
4-Isopropyltoluene (p-Cymene,p-Isopropyltoluene)	IL
4-Methyl-2-pentanone (MIBK)	IL
Acetone	IL
Acetonitrile	IL
Acrolein (Propenal)	IL
Acrylonitrile	IL
Allyl chloride (3-Chloropropene)	IL
Benzene	IL
Bromobenzene	IL
Bromochloromethane	IL
Bromodichloromethane	IL
Bromoform	IL
Carbon disulfide	IL
Carbon tetrachloride	IL
Chlorobenzene	IL
Chlorodibromomethane	IL
Chloroethane (Ethyl chloride)	IL
Chloroform	IL
Chloroprene (2-Chloro-1,3-butadiene)	IL
cis-1,2-Dichloroethylene	IL
cis-1,3-Dichloropropene	IL
cis-1,4-Dichloro-2-butene	IL
Dibromomethane (Methylene bromide)	IL
Dichlorodifluoromethane (Freon-12)	IL
Diethyl ether	IL

Field of Testing /Matrix: RCRA (Non Potable Water)

Ethyl acetate	IL
Ethylbenzene	IL
Hexachlorobutadiene	IL
Isobutyl alcohol (2-Methyl-1-propanol)	IL
Isopropyl alcohol (2-Propanol, Isopropanol)	IL
Isopropylbenzene	IL
m+p-xylene	IL
Methacrylonitrile	IL
Methyl bromide (Bromomethane)	IL
Methyl chloride (Chloromethane)	IL
Methyl methacrylate	IL
Methyl tert-butyl ether (MTBE)	IL
Methylene chloride (Dichloromethane)	IL
m-Xylene	IL
Naphthalene	IL
n-Butyl alcohol (1-Butanol, n-Butanol)	IL
n-Butylbenzene	IL
n-Propanol (1-Propanol)	IL
n-Propylbenzene	IL
o-Xylene	IL
Propionitrile (Ethyl cyanide)	IL
p-Xylene	IL
sec-Butylbenzene	IL
Styrene	IL
tert-Butylbenzene	IL
Tetrachloroethylene (Perchloroethylene)	IL
Toluene	IL
trans-1,2-Dichloroethylene	IL
trans-1,3-Dichloropropylene	IL
trans-1,4-Dichloro-2-butene	IL
Trichloroethene (Trichloroethylene)	IL
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	IL
Vinyl acetate	IL
Vinyl chloride	IL
Xylene (total)	IL

Method EPA 8270D

1,2,4,5-Tetrachlorobenzene	IL
1,2,4-Trichlorobenzene	IL
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Dinitrobenzene	IL
1,2-Diphenylhydrazine	IL
1,3-Dichlorobenzene	IL
1,4-Dichlorobenzene	IL
1,4-Dinitrobenzene	IL
1-Methylnaphthalene	IL
1-Naphthylamine	IL
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	IL
2,3,4,6-Tetrachlorophenol	IL
2,4,5-Trichlorophenol	IL
2,4,5-Trimethylaniline	IL
2,4,6-Trichlorophenol	IL
2,4-Dichlorophenol	IL

Field of Testing /Matrix: RCRA (Non Potable Water)

2,4-Dimethylphenol	IL
2,4-Dinitrophenol	IL
2,4-Dinitrotoluene (2,4-DNT)	IL
2,6-Dinitrotoluene (2,6-DNT)	IL
2-Acetylaminofluorene	IL
2-Chloronaphthalene	IL
2-Chlorophenol	IL
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	IL
2-Methylaniline (o-Toluidine)	IL
2-Methylnaphthalene	IL
2-Methylphenol (o-Cresol)	IL
2-Naphthylamine	IL
2-Nitroaniline	IL
2-Nitrophenol	IL
3,3'-Dichlorobenzidine	IL
3-Methylphenol (m-Cresol)	IL
3-Nitroaniline	IL
4-Aminobiphenyl	IL
4-Bromophenyl phenyl ether	IL
4-Chloro-3-methylphenol	IL
4-Chloroaniline	IL
4-Chlorophenyl phenylether	IL
4-Methylphenol (p-Cresol)	IL
4-Nitroaniline	IL
4-Nitrophenol	IL
5-Nitro-o-toluidine	IL
7,12-Dimethylbenz(a) anthracene	IL
Acenaphthene	IL
Acenaphthylene	IL
Acetophenone	IL
Aniline	IL
Anthracene	IL
Benzidine	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL
Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL
Benzoic acid	IL
Benzyl alcohol	IL
bis(2-Chloroethoxy)methane	IL
bis(2-Chloroethyl) ether	IL
bis(2-Ethylhexyl) phthalate (DEHP)	IL
Butyl benzyl phthalate	IL
Carbazole	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Dibenzo(a,e) pyrene	IL
Dibenzofuran	IL
Diethyl phthalate	IL
Dimethyl phthalate	IL
Di-n-butyl phthalate	IL

Field of Testing /Matrix: RCRA (Non Potable Water)

Di-n-octyl phthalate	IL
Diphenylamine	IL
Fluoranthene	IL
Fluorene	IL
Hexachlorobenzene	IL
Hexachlorobutadiene	IL
Hexachlorocyclopentadiene	IL
Hexachloroethane	IL
Hexachloropropene	IL
Indeno(1,2,3-cd) pyrene	IL
Isophorone	IL
Methylpyrilene	IL
Naphthalene	IL
Nitrobenzene	IL
n-Nitrosodiethylamine	IL
n-Nitrosodimethylamine	IL
n-Nitroso-di-n-butylamine	IL
n-Nitrosodi-n-propylamine	IL
n-Nitrosodiphenylamine	IL
n-Nitrosopiperidine	IL
n-Nitrosopyrrolidine	IL
Pentachlorobenzene	IL
Pentachlorophenol	IL
Phenacetin	IL
Phenanthrene	IL
Phenol	IL
Phorate	IL
Pyrene	IL
Pyridine	IL

Method EPA 8270D SIM

1-Methylnaphthalene	IL
2-Methylnaphthalene	IL
Acenaphthene	IL
Acenaphthylene	IL
Anthracene	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL
Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Fluoranthene	IL
Fluorene	IL
Indeno(1,2,3-cd) pyrene	IL
Naphthalene	IL
Phenanthrene	IL
Pyrene	IL

Method EPA 8270E

1,2,4,5-Tetrachlorobenzene	IL
1,2,4-Trichlorobenzene	IL

Field of Testing /Matrix: RCRA (Non Potable Water)

1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Dinitrobenzene	IL
1,2-Diphenylhydrazine	IL
1,3-Dichlorobenzene	IL
1,4-Dichlorobenzene	IL
1,4-Dinitrobenzene	IL
1-Methylnaphthalene	IL
1-Naphthylamine	IL
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	IL
2,3,4,6-Tetrachlorophenol	IL
2,4,5-Trichlorophenol	IL
2,4,5-Trimethylaniline	IL
2,4,6-Trichlorophenol	IL
2,4-Dichlorophenol	IL
2,4-Dimethylphenol	IL
2,4-Dinitrophenol	IL
2,4-Dinitrotoluene (2,4-DNT)	IL
2,6-Dinitrotoluene (2,6-DNT)	IL
2-Acetylaminofluorene	IL
2-Chloronaphthalene	IL
2-Chlorophenol	IL
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	IL
2-Methylaniline (o-Toluidine)	IL
2-Methylnaphthalene	IL
2-Methylphenol (o-Cresol)	IL
2-Naphthylamine	IL
2-Nitroaniline	IL
2-Nitrophenol	IL
3,3'-Dichlorobenzidine	IL
3-Methylphenol (m-Cresol)	IL
3-Nitroaniline	IL
4-Aminobiphenyl	IL
4-Bromophenyl phenyl ether	IL
4-Chloro-3-methylphenol	IL
4-Chloroaniline	IL
4-Chlorophenyl phenylether	IL
4-Methylphenol (p-Cresol)	IL
4-Nitroaniline	IL
4-Nitrophenol	IL
5-Nitro-o-toluidine	IL
7,12-Dimethylbenz(a) anthracene	IL
Acenaphthene	IL
Acenaphthylene	IL
Acetophenone	IL
Aniline	IL
Anthracene	IL
Benzidine	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL
Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL

Field of Testing /Matrix: RCRA (Non Potable Water)

Benzoic acid	IL
Benzyl alcohol	IL
bis(2-Chloroethoxy)methane	IL
bis(2-Chloroethyl) ether	IL
bis(2-Ethylhexyl) phthalate (DEHP)	IL
Butyl benzyl phthalate	IL
Carbazole	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Dibenzo(a,e) pyrene	IL
Dibenzofuran	IL
Diethyl phthalate	IL
Dimethyl phthalate	IL
Di-n-butyl phthalate	IL
Di-n-octyl phthalate	IL
Diphenylamine	IL
Fluoranthene	IL
Fluorene	IL
Hexachlorobenzene	IL
Hexachlorobutadiene	IL
Hexachlorocyclopentadiene	IL
Hexachloroethane	IL
Hexachloropropene	IL
Indeno(1,2,3-cd) pyrene	IL
Isophorone	IL
Methapyrilene	IL
Methylpyrilene	IL
Naphthalene	IL
Nitrobenzene	IL
n-Nitrosodiethylamine	IL
n-Nitrosodimethylamine	IL
n-Nitroso-di-n-butylamine	IL
n-Nitrosodi-n-propylamine	IL
n-Nitrosodiphenylamine	IL
n-Nitrosopiperidine	IL
n-Nitrosopyrrolidine	IL
Pentachlorobenzene	IL
Pentachlorophenol	IL
Phenacetin	IL
Phenanthrene	IL
Phenol	IL
Phorate	IL
Pyrene	IL
Pyridine	IL

Method EPA 8270E SIM

1-Methylnaphthalene	IL
2-Methylnaphthalene	IL
Acenaphthene	IL
Acenaphthylene	IL
Anthracene	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL

Field of Testing /Matrix: RCRA (Non Potable Water)

Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Fluoranthene	IL
Fluorene	IL
Indeno(1,2,3-cd) pyrene	IL
Naphthalene	IL
Phenanthrene	IL
Pyrene	IL

Method EPA 8318A

Aldicarb (Temik)	IL
Carbofuran (Furaden)	IL

Method EPA 8321B

2,4,5-T	IL
2,4,5-T Butoxyethanol ester	IL
2,4,5-T Butyl ester	IL
2,4-D	IL
2,4-DB	IL
Aldicarb (Temik)	IL
Carbofuran (Furaden)	IL
Dalapon	IL
Dicamba	IL
Dichloroprop (Dichlorprop)	IL
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	IL
MCPA	IL
MCPP	IL
Silvex (2,4,5-TP)	IL

Method EPA 8330B

1,3,5-Trinitrobenzene (1,3,5-TNB)	IL
1,3-Dinitrobenzene (1,3-DNB)	IL
2,4,6-Trinitrotoluene (2,4,6-TNT)	IL
2,4-Dinitrotoluene (2,4-DNT)	IL
2,6-Dinitrotoluene (2,6-DNT)	IL
2-Amino-4,6-dinitrotoluene (2-am-dnt)	IL
2-Nitrotoluene	IL
3,5-Dinitroaniline	IL
3-Nitrotoluene	IL
4-Amino-2,6-dinitrotoluene (4-am-dnt)	IL
4-Nitrotoluene	IL
Methyl-2,4,6-trinitrophenylnitramine (tetryl)	IL
Nitrobenzene	IL
Nitroglycerin	IL
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	IL
Pentaerythritoltetranitrate	IL
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	IL

Method EPA 9014 Rev: 0

Cyanide	IL
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Method EPA 9034 Rev: 0

Sulfide	IL
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Field of Testing /Matrix: RCRA (Non Potable Water)**Method EPA 9040C**

pH IL

Method EPA 9045D

pH IL

Method EPA 9056A

Bromide IL

Chloride IL

Fluoride IL

Nitrate IL

Nitrite IL

Sulfate IL

Method EPA 9060A

Total organic carbon IL

Method EPA 9065 Rev: 0

Total phenolics IL

Method EPA 9095B

Paint Filter Test IL

Method SM 4500-NH3 C-2011

Ammonia as N IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)**Method EPA 1010A**

Ignitability IL

Method EPA 1311 Rev: 0

Toxicity Characteristic Leaching Procedure (TCLP) IL

Method EPA 1312 Rev: 0

Synthetic Precipitation Leaching Procedure (SPLP) IL

Method EPA 5050 Rev: 0

Bomb Preparation Method for Solid Waste IL

Method EPA 6010D

Aluminum IL

Antimony IL

Arsenic IL

Barium IL

Beryllium IL

Boron IL

Cadmium IL

Calcium IL

Chromium IL

Cobalt IL

Copper IL

Iron IL

Lead IL

Magnesium IL

Manganese IL

Molybdenum IL

Nickel IL

Potassium IL

Selenium IL

Silver IL

Sodium IL

Strontium IL

Thallium IL

Tin IL

Titanium IL

Vanadium IL

Zinc IL

Method EPA 6020B

Aluminum IL

Antimony IL

Arsenic IL

Barium IL

Beryllium IL

Boron IL

Cadmium IL

Calcium IL

Chromium IL

Cobalt IL

Copper IL

Iron IL

Lead IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

Magnesium	IL
Manganese	IL
Molybdenum	IL
Nickel	IL
Potassium	IL
Selenium	IL
Silver	IL
Sodium	IL
Thallium	IL
Tin	IL
Titanium	IL
Vanadium	IL
Zinc	IL
Method EPA 7196A Rev: 1	
Chromium VI	IL
Method EPA 7471B	
Mercury	IL
Method EPA 8015B Rev: 2	
Ethylene glycol	IL
Method EPA 8015D	
Diesel range organics (DRO)	IL
Ethanol	IL
Gasoline range organics (GRO)	IL
Isopropyl alcohol (2-Propanol, Isopropanol)	IL
Methanol	IL
n-Propanol (1-Propanol)	IL
tert-Butyl alcohol	IL
Method EPA 8081B Rev: 2	
4,4'-DDD	IL
4,4'-DDE	IL
4,4'-DDT	IL
Alachlor	IL
Aldrin	IL
alpha-BHC (alpha-Hexachlorocyclohexane)	IL
alpha-Chlordane, cis-Chlordane	IL
Atrazine	IL
beta-BHC (beta-Hexachlorocyclohexane)	IL
Chlordane (tech.)(N.O.S.)	IL
delta-BHC	IL
Dieldrin	IL
Endosulfan I	IL
Endosulfan II	IL
Endosulfan sulfate	IL
Endrin	IL
Endrin aldehyde	IL
Endrin ketone	IL
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	IL
gamma-Chlordane	IL
Heptachlor	IL
Heptachlor epoxide	IL
Methoxychlor	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

Toxaphene (Chlorinated camphene) IL

Method EPA 8082A

Aroclor-1016 (PCB-1016) IL

Aroclor-1221 (PCB-1221) IL

Aroclor-1232 (PCB-1232) IL

Aroclor-1242 (PCB-1242) IL

Aroclor-1248 (PCB-1248) IL

Aroclor-1254 (PCB-1254) IL

Aroclor-1260 (PCB-1260) IL

Method EPA 8260B

1,1,1,2-Tetrachloroethane IL

1,1,1-Trichloroethane IL

1,1,2,2-Tetrachloroethane IL

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) IL

1,1,2-Trichloroethane IL

1,1-Dichloroethane IL

1,1-Dichloroethylene IL

1,1-Dichloropropene IL

1,2,3-Trichlorobenzene IL

1,2,3-Trichloropropane IL

1,2,4-Trichlorobenzene IL

1,2,4-Trimethylbenzene IL

1,2-Dibromo-3-chloropropane (DBCP) IL

1,2-Dibromoethane (EDB, Ethylene dibromide) IL

1,2-Dichlorobenzene (o-Dichlorobenzene) IL

1,2-Dichloroethane (Ethylene dichloride) IL

1,2-Dichloropropane IL

1,3,5-Trichlorobenzene IL

1,3,5-Trimethylbenzene IL

1,3-Dichlorobenzene IL

1,3-Dichloropropane IL

1,4-Dichlorobenzene IL

1,4-Dioxane (1,4- Diethyleneoxide) IL

2,2-Dichloropropane IL

2-Chloroethyl vinyl ether IL

2-Chlorotoluene IL

2-Hexanone IL

4-Chlorotoluene IL

4-Isopropyltoluene (p-Cymene,p-Isopropyltoluene) IL

4-Methyl-2-pentanone (MIBK) IL

Acetone IL

Acetonitrile IL

Acrolein (Propenal) IL

Acrylonitrile IL

Allyl chloride (3-Chloropropene) IL

Benzene IL

Bromobenzene IL

Bromochloromethane IL

Bromodichloromethane IL

Bromoform IL

Carbon disulfide IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

Carbon tetrachloride	IL
Chlorobenzene	IL
Chlorodibromomethane	IL
Chloroethane (Ethyl chloride)	IL
Chloroform	IL
Chloroprene (2-Chloro-1,3-butadiene)	IL
cis-1,2-Dichloroethylene	IL
cis-1,3-Dichloropropene	IL
Dibromofluoromethane	IL
Dibromomethane (Methylene bromide)	IL
Dichlorodifluoromethane (Freon-12)	IL
Diethyl ether	IL
Ethyl acetate	IL
Ethylbenzene	IL
Hexachlorobutadiene	IL
Isobutyl alcohol (2-Methyl-1-propanol)	IL
Isopropyl alcohol (2-Propanol, Isopropanol)	IL
Isopropylbenzene	IL
m+p-xylene	IL
Methacrylonitrile	IL
Methyl bromide (Bromomethane)	IL
Methyl chloride (Chloromethane)	IL
Methyl methacrylate	IL
Methyl tert-butyl ether (MTBE)	IL
Methylene chloride (Dichloromethane)	IL
m-Xylene	IL
Naphthalene	IL
n-Butyl alcohol (1-Butanol, n-Butanol)	IL
n-Butylbenzene	IL
n-Propanol (1-Propanol)	IL
n-Propylbenzene	IL
o-Xylene	IL
Propionitrile (Ethyl cyanide)	IL
p-Xylene	IL
sec-Butylbenzene	IL
Styrene	IL
tert-Butylbenzene	IL
Tetrachloroethylene (Perchloroethylene)	IL
Tetrahydrofuran (THF)	IL
Toluene	IL
trans-1,2-Dichloroethylene	IL
trans-1,3-Dichloropropylene	IL
trans-1,4-Dichloro-2-butene	IL
Trichloroethene (Trichloroethylene)	IL
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	IL
Vinyl acetate	IL
Vinyl chloride	IL
Xylene (total)	IL

Method EPA 8260D

1,1,1,2-Tetrachloroethane	IL
1,1,1-Trichloroethane	IL
1,1,2,2-Tetrachloroethane	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

1,1,2-Trichloroethane	IL
1,1-Dichloroethane	IL
1,1-Dichloroethylene	IL
1,1-Dichloropropene	IL
1,2,3-Trichlorobenzene	IL
1,2,3-Trichloropropane	IL
1,2,4-Trichlorobenzene	IL
1,2,4-Trimethylbenzene	IL
1,2-Dibromo-3-chloropropane (DBCP)	IL
1,2-Dibromoethane (EDB, Ethylene dibromide)	IL
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Dichloroethane (Ethylene dichloride)	IL
1,2-Dichloropropane	IL
1,3,5-Trimethylbenzene	IL
1,3-Dichlorobenzene	IL
1,3-Dichloropropane	IL
1,4-Dichlorobenzene	IL
1,4-Dioxane (1,4- Diethyleneoxide)	IL
2,2-Dichloropropane	IL
2-Chloroethyl vinyl ether	IL
2-Chlorotoluene	IL
2-Hexanone	IL
4-Chlorotoluene	IL
4-Isopropyltoluene (p-Cymene,p-Isopropyltoluene)	IL
4-Methyl-2-pentanone (MIBK)	IL
Acetone	IL
Acetonitrile	IL
Acrolein (Propenal)	IL
Acrylonitrile	IL
Allyl chloride (3-Chloropropene)	IL
Benzene	IL
Bromobenzene	IL
Bromochloromethane	IL
Bromodichloromethane	IL
Bromoform	IL
Carbon disulfide	IL
Carbon tetrachloride	IL
Chlorobenzene	IL
Chlorodibromomethane	IL
Chloroethane (Ethyl chloride)	IL
Chloroform	IL
Chloroprene (2-Chloro-1,3-butadiene)	IL
cis-1,2-Dichloroethylene	IL
cis-1,3-Dichloropropene	IL
cis-1,4-Dichloro-2-butene	IL
Dibromomethane (Methylene bromide)	IL
Dichlorodifluoromethane (Freon-12)	IL
Diethyl ether	IL
Ethyl acetate	IL
Ethylbenzene	IL
Hexachlorobutadiene	IL
Isobutyl alcohol (2-Methyl-1-propanol)	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

Isopropyl alcohol (2-Propanol, Isopropanol)	IL
Isopropylbenzene	IL
m+p-xylene	IL
Methacrylonitrile	IL
Methyl bromide (Bromomethane)	IL
Methyl chloride (Chloromethane)	IL
Methyl methacrylate	IL
Methyl tert-butyl ether (MTBE)	IL
Methylene chloride (Dichloromethane)	IL
m-Xylene	IL
Naphthalene	IL
n-Butyl alcohol (1-Butanol, n-Butanol)	IL
n-Butylbenzene	IL
n-Propanol (1-Propanol)	IL
n-Propylbenzene	IL
o-Xylene	IL
Propionitrile (Ethyl cyanide)	IL
p-Xylene	IL
sec-Butylbenzene	IL
Styrene	IL
tert-Butylbenzene	IL
Tetrachloroethylene (Perchloroethylene)	IL
Toluene	IL
trans-1,2-Dichloroethylene	IL
trans-1,3-Dichloropropylene	IL
trans-1,4-Dichloro-2-butene	IL
Trichloroethene (Trichloroethylene)	IL
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	IL
Vinyl acetate	IL
Vinyl chloride	IL
Xylene (total)	IL

Method EPA 8270D

1,2,4,5-Tetrachlorobenzene	IL
1,2,4-Trichlorobenzene	IL
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Dinitrobenzene	IL
1,2-Diphenylhydrazine	IL
1,3-Dichlorobenzene	IL
1,4-Dichlorobenzene	IL
1,4-Dinitrobenzene	IL
1-Methylnaphthalene	IL
1-Naphthylamine	IL
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	IL
2,3,4,6-Tetrachlorophenol	IL
2,4,5-Trichlorophenol	IL
2,4,5-Trimethylaniline	IL
2,4,6-Trichlorophenol	IL
2,4-Dichlorophenol	IL
2,4-Dimethylphenol	IL
2,4-Dinitrophenol	IL
2,4-Dinitrotoluene (2,4-DNT)	IL
2,6-Dinitrotoluene (2,6-DNT)	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

2-Acetylaminofluorene	IL
2-Chloronaphthalene	IL
2-Chlorophenol	IL
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	IL
2-Methylaniline (o-Toluidine)	IL
2-Methylnaphthalene	IL
2-Methylphenol (o-Cresol)	IL
2-Naphthylamine	IL
2-Nitroaniline	IL
2-Nitrophenol	IL
3,3'-Dichlorobenzidine	IL
3-Methylphenol (m-Cresol)	IL
3-Nitroaniline	IL
4-Aminobiphenyl	IL
4-Bromophenyl phenyl ether	IL
4-Chloro-3-methylphenol	IL
4-Chloroaniline	IL
4-Chlorophenyl phenylether	IL
4-Methylphenol (p-Cresol)	IL
4-Nitroaniline	IL
4-Nitrophenol	IL
5-Nitro-o-toluidine	IL
7,12-Dimethylbenz(a) anthracene	IL
Acenaphthene	IL
Acenaphthylene	IL
Acetophenone	IL
Aniline	IL
Anthracene	IL
Benzidine	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL
Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL
Benzoic acid	IL
Benzyl alcohol	IL
bis(2-Chloroethoxy)methane	IL
bis(2-Chloroethyl) ether	IL
bis(2-Ethylhexyl) phthalate (DEHP)	IL
Butyl benzyl phthalate	IL
Carbazole	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Dibenzo(a,e) pyrene	IL
Dibenzofuran	IL
Diethyl phthalate	IL
Dimethyl phthalate	IL
Di-n-butyl phthalate	IL
Di-n-octyl phthalate	IL
Diphenylamine	IL
Fluoranthene	IL
Fluorene	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

Hexachlorobenzene	IL
Hexachlorobutadiene	IL
Hexachlorocyclopentadiene	IL
Hexachloroethane	IL
Hexachloropropene	IL
Indeno(1,2,3-cd) pyrene	IL
Isophorone	IL
Methapyrilene	IL
Methylpyrilene	IL
Naphthalene	IL
Nitrobenzene	IL
n-Nitrosodiethylamine	IL
n-Nitrosodimethylamine	IL
n-Nitroso-di-n-butylamine	IL
n-Nitrosodi-n-propylamine	IL
n-Nitrosodiphenylamine	IL
n-Nitrosopiperidine	IL
n-Nitrosopyrrolidine	IL
Pentachlorobenzene	IL
Pentachlorophenol	IL
Phenacetin	IL
Phenanthrene	IL
Phenol	IL
Phorate	IL
Pyrene	IL
Pyridine	IL

Method EPA 8270D SIM

1-Methylnaphthalene	IL
2-Methylnaphthalene	IL
Acenaphthene	IL
Acenaphthylene	IL
Anthracene	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL
Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Fluoranthene	IL
Fluorene	IL
Indeno(1,2,3-cd) pyrene	IL
Naphthalene	IL
Phenanthrene	IL
Pyrene	IL

Method EPA 8270E

1,2,4,5-Tetrachlorobenzene	IL
1,2,4-Trichlorobenzene	IL
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Dinitrobenzene	IL
1,2-Diphenylhydrazine	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

1,3-Dichlorobenzene	IL
1,4-Dichlorobenzene	IL
1,4-Dinitrobenzene	IL
1-Methylnaphthalene	IL
1-Naphthylamine	IL
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	IL
2,3,4,6-Tetrachlorophenol	IL
2,4,5-Trichlorophenol	IL
2,4,5-Trimethylaniline	IL
2,4,6-Trichlorophenol	IL
2,4-Dichlorophenol	IL
2,4-Dimethylphenol	IL
2,4-Dinitrophenol	IL
2,4-Dinitrotoluene (2,4-DNT)	IL
2,6-Dinitrotoluene (2,6-DNT)	IL
2-Acetylamino fluorene	IL
2-Chloronaphthalene	IL
2-Chlorophenol	IL
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	IL
2-Methylaniline (o-Toluidine)	IL
2-Methylnaphthalene	IL
2-Methylphenol (o-Cresol)	IL
2-Naphthylamine	IL
2-Nitroaniline	IL
2-Nitrophenol	IL
3,3'-Dichlorobenzidine	IL
3-Methylphenol (m-Cresol)	IL
3-Nitroaniline	IL
4-Aminobiphenyl	IL
4-Bromophenyl phenyl ether	IL
4-Chloro-3-methylphenol	IL
4-Chloroaniline	IL
4-Chlorophenyl phenylether	IL
4-Methylphenol (p-Cresol)	IL
4-Nitroaniline	IL
4-Nitrophenol	IL
5-Nitro-o-toluidine	IL
7,12-Dimethylbenz(a) anthracene	IL
Acenaphthene	IL
Acenaphthylene	IL
Acetophenone	IL
Aniline	IL
Anthracene	IL
Benzidine	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL
Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL
Benzoic acid	IL
Benzyl alcohol	IL
bis(2-Chloroethoxy)methane	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

bis(2-Chloroethyl) ether	IL
bis(2-Ethylhexyl) phthalate (DEHP)	IL
Butyl benzyl phthalate	IL
Carbazole	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Dibenzo(a,e) pyrene	IL
Dibenzofuran	IL
Diethyl phthalate	IL
Dimethyl phthalate	IL
Di-n-butyl phthalate	IL
Di-n-octyl phthalate	IL
Diphenylamine	IL
Fluoranthene	IL
Fluorene	IL
Hexachlorobenzene	IL
Hexachlorobutadiene	IL
Hexachlorocyclopentadiene	IL
Hexachloroethane	IL
Hexachloropropene	IL
Indeno(1,2,3-cd) pyrene	IL
Isophorone	IL
Methapyrilene	IL
Methylpyrilene	IL
Naphthalene	IL
Nitrobenzene	IL
n-Nitrosodiethylamine	IL
n-Nitrosodimethylamine	IL
n-Nitroso-di-n-butylamine	IL
n-Nitrosodi-n-propylamine	IL
n-Nitrosodiphenylamine	IL
n-Nitrosopiperidine	IL
n-Nitrosopyrrolidine	IL
Pentachlorobenzene	IL
Pentachlorophenol	IL
Phenacetin	IL
Phenanthrene	IL
Phenol	IL
Phorate	IL
Pyrene	IL
Pyridine	IL

Method EPA 8270E SIM

1-Methylnaphthalene	IL
2-Methylnaphthalene	IL
Acenaphthene	IL
Acenaphthylene	IL
Anthracene	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL
Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

Chrysene	IL
Dibenz(a,h) anthracene	IL
Fluoranthene	IL
Fluorene	IL
Indeno(1,2,3-cd) pyrene	IL
Naphthalene	IL
Phenanthrene	IL
Pyrene	IL

Method EPA 8318A

Aldicarb (Temik)	IL
Carbofuran (Furaden)	IL

Method EPA 8321B

2,4,5-T	IL
2,4,5-T Butoxyethanol ester	IL
2,4,5-T Butyl ester	IL
2,4-D	IL
Aldicarb (Temik)	IL
Carbofuran (Furaden)	IL
Dalapon	IL
Dicamba	IL
Dichloroprop (Dichlorprop)	IL
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	IL
MCPA	IL
MCPP	IL
Silvex (2,4,5-TP)	IL

Method EPA 8330B

1,3,5-Trinitrobenzene (1,3,5-TNB)	IL
1,3-Dinitrobenzene (1,3-DNB)	IL
2,4,6-Trinitrotoluene (2,4,6-TNT)	IL
2,4-Dinitrotoluene (2,4-DNT)	IL
2,6-Dinitrotoluene (2,6-DNT)	IL
2-Amino-4,6-dinitrotoluene (2-am-dnt)	IL
2-Nitrotoluene	IL
3,5-Dinitroaniline	IL
3-Nitrotoluene	IL
4-Amino-2,6-dinitrotoluene (4-am-dnt)	IL
4-Nitrotoluene	IL
Methyl-2,4,6-trinitrophenylnitramine (tetryl)	IL
Nitrobenzene	IL
Nitroglycerin	IL
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	IL
Pentaerythritoltetranitrate	IL
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	IL

Method EPA 9014 Rev: 0

Cyanide	IL
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Method EPA 9034 Rev: 0

Sulfide	IL
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Method EPA 9045D

pH	IL
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Method EPA 9056A

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

Bromide	IL
Chloride	IL
Fluoride	IL
Nitrate	IL
Nitrite	IL
Orthophosphate as P	IL
Sulfate	IL

Method EPA 9065 Rev: 0

Total phenolics	IL
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Method EPA 9095B

Paint Filter Test	IL
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Field of Testing /Matrix: SDWA (Potable Water)**Method EPA 180.1 Rev: 2**

Turbidity IL

Method EPA 200.7 Rev: 4.4

Copper IL

Silver IL

Method EPA 200.8 Rev: 5.4

Aluminum IL

Antimony IL

Barium IL

Beryllium IL

Cadmium IL

Chromium IL

Copper IL

Lead IL

Manganese IL

Molybdenum IL

Nickel IL

Silver IL

Thallium IL

Zinc IL

Method EPA 245.1 Rev: 3

Mercury IL

Method EPA 300.0 Rev: 2.1

Chloride IL

Fluoride IL

Nitrate IL

Nitrite IL

Sulfate IL

Method SM 4500-Cl G Rev: 22nd ED

Total residual chlorine IL

Method SM 4500-CN⁻ E Rev: 22nd ED

Cyanide IL

Method SM 4500-H⁺ B Rev: 22nd ED

pH IL

End of Scope of Accreditation



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web: envdesigni.com

November 15, 2024

Ms. Grace Czyszczon
Delta Engineering Group, LLC
111 West Jackson Boulevard
Suite 910
Chicago, Illinois 60621

**Subject: Soil Disposal Package
Project Area 14
2345-2360 South Harding Avenue
Chicago, Illinois 60623**

Dear Ms. Czyszczon:

Environmental Design International inc. (EDI) is pleased to submit this Soil Disposal Package to Delta Engineering Group, LLC (Delta) in support of the Chicago Department of Transportation (CDOT) WPA Residential Streets project. The package addresses soil excavation activities that are planned for Project Area 14, which includes portions of the South Harding Avenue and West 24th Street roadways; in Chicago, Cook County, Illinois (the Project Area). The Project Area is currently an asphalt roadway, approximately 227 feet in length, that extends northward from the intersection of South Harding Avenue and West 24th Street to a dead end.

Project Background

EDI completed a Preliminary Environmental Site Assessment (PESA) for the Project Area issued on June 29, 2024. The PESA evaluation of the Project Area identified a total of seven (7) sites, including the Project Area, that were assessed by evaluating environmental database listings, historical sources, and other records. The findings of the PESA evaluation were documented in the PESA Report, dated October 2, 2024, that was issued following a review by Huff & Huff (H&H), an environmental contractor that performs environmental functions on behalf of CDOT.

Among the findings presented in the PESA Report are the following Recognized Environmental Conditions (RECs) or Potentially Impacted Properties (PIPs) at various sites:

- Site 5 – Multi-Use Industrial Property, 2345 South Harding Avenue, 2330–2340 South Springfield Avenue, Chicago
 - Historical presence of a railroad
 - Historical chemical storage structure in 1950
 - Potential underground storage tanks (USTs)
 - Current auto shop utilization
 - Current detergent manufacturing

- Site 6 – Parking Area, 2300 and 2304 South Harding, Avenue, Chicago
 - Historical presence of a railroad
 - Historical chemical storage structure in 1950
- Site 7 – Commercial Strip Mall, 3943 West 24th Street and 2353 South Pulaski Road, Chicago
 - Historical steel works/shop and steel storage
- Site A – BNSF Railroad Tracks, BNSF Railroad Tracks, Chicago
 - Historical and current presence of a railroad
- Site B – BNSF Railroad Tracks, BNSF Railroad Tracks, Chicago
 - Historical auto repair
- Site C – Grass Area, 2355 South Pulaski Road, Chicago
 - Historical steel works/shop and steel storage
- Site D – Vacant Building, 2401 South Pulaski Road, Chicago
 - Historical auto repair

Based on the PESA findings, EDI recommended that additional site investigation activities be performed to determine if the identified RECs have impacted the subsurface soil at the site and to characterize the soils from the Project Area for disposal as Clean Construction or Demolition Debris (CCDD). As such, EDI completed a Preliminary Site Investigation (PSI) at the Project Area in accordance with the H&H approved PSI Scope of Work (SOW), dated October 3, 2024. Field activities for the PSI were completed on October 25, 2024, during which soil samples were collected for chemical analysis. The resulting information from the completed PSI was used to develop this Soil Disposal package

PSI Sample Methodology

Based on the following two (2) factors, EDI collected soil characterization samples from the Project Area:

- Using the CDOT guidance of collecting one sample per 200 feet of roadway, EDI located two (2) soil borings near the north and south ends of the Project Area. **The northmost soil boring was designated as EDI-PESA14-001, while the southmost soil boring was designated as EDI-PESA14-002.** The approximate boring locations are presented in **Attachment 1** of this Soil Disposal package document. A copy of the Boring log is included as **Attachment 2**.
- Based on the bottom elevations for the existing and proposed roadways from the construction drawings provided by Delta/CDOT, EDI proposed that soil borings EDI-PESA-001 and EDI-PESA-002 be advanced to a maximum depth of five feet below ground surface (ft. bgs). EDI oversaw the installation of that soil boring on October 25, 2024.

- The recovered material was visually inspected for obvious signs of contamination to determine an appropriate sample location. The recovered material was also screened using a Photoionization Detector (PID) to identify portions of the material that may contain elevated levels of VOCs that would indicate impact from petroleum-based compounds.
- One (1) sample will be collected from the material recovered from each 5-foot interval. The collected soil samples were designated as EDI-PESA14-001 and EDI-PESA14-002, respectively. The collected soil samples were placed into clean, laboratory supplied containers.
- EDI transported the collected samples under typical Chain of Custody procedures to Sterling Laboratories of Des Plaines, IL (Sterling Labs), an IEPA Environmental Laboratory Accreditation Program (IL ELAP) certified laboratory. Sample EDI-PESA14-001 was analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX), VOCs, semi-volatile organic compounds (SVOCs)/poly nuclear aromatic compounds (PNAs), Resource Conservation and Recovery Act (RCRA) 8 metals, Methyl tert-butyl ether (MTBE), and pH. EDI also requested that the sample be analyzed for Toxicity Characteristic Leaching Procedure (TCLP) RCRA 8 metals, TCLP VOCs and the Code R waste characterization suite of analytes. Sample EDI-PESA14-002 was analyzed for VOCs, SVOCs/PNAs, RCRA 8 metals, and pH. EDI requested that analytical results be provided within rush laboratory analysis of 2 to 3 business days following sample drop off.

Data Evaluation

Upon receipt of the laboratory data, EDI reviewed the analytical results. The laboratory data were evaluated against the respective CCDD MAC values and TACO Tier 1 Residential Soil Remediation Objectives as applicable.

This evaluation revealed the following:

- No VOC compounds in either sample exceeded their applicable MAC limit.
- No SVOC/PNA compounds exceeded their applicable MAC limit.
- No polychlorinated biphenyls (PCBs) in sample EDI-PESA14-001 exceeded their applicable MAC limit.
- Cadmium and Selenium in sample EDI-PESA14-001 were the only RCRA 8 Metals that had total concentrations that exceeded their applicable MAC limit. The sample was re-analyzed by TCLP. The resultant sample results were compared to the IEPA TACO Tier I Soil Component of Groundwater Ingestion Exposure Route Class I Values and the values were compliant with the respective standard.
- No Code R analytes disqualified the soil from the Project Area from CCDD disposal based on the following:
 - Ignitability – passed.
 - Reactive Cyanide - passed.

- Reactive Sulfide- passed.
- Total Recoverable Phenolics - passed.
- Free liquids - passed.
- Sample EDI-PESA14-001 was reported to have a pH value of 6.72, while sample EDI-PESA14-002 has a pH value of 7.06.

Based on the information presented above, EDI concluded that soil recovered from the South Harding Avenue Project Area qualified for disposal at a CCDD facility.

Disposal Volume Determination

Delta provided EDI with a set of construction drawings to use in the preparation of the PESA evaluation of the Project Area. These drawings were used in conjunction with Google Maps to determine that the Project Area comprised an area of approximately 14,300 square feet (sf).

In conjunction with an anticipated maximum excavation depth of 5 feet, a conversion factor of 27 cubic feet per cubic yard (cy), and a swell factor of 1.25 excavated cy versus in place cy, the expected disposal volume was determined to be **3,400 cy** (rounded).

Package Contents

EDI has prepared and included the following:

- A completed IEPA LPC-663 Form.
- The Boring Logs for EDI-PES14A-001 and EDI-PESA-002.
- A Data Summary Table presenting the sample results compared to MAC limits.
- A Data Table showing the calculated Soil Disposal Volume.
- A partial copy of the Soil Analytical Report. Note the report contained data from a second Project Area that was sampled on the same date. The pages containing those data have been removed to avoid confusion.
- A figure showing the Soil Boring/Soil Sample locations.

Closing

We hope this Soil Disposal package meets with your approval. If you have any questions, please contact Garth Daley (708-203-8672) or Nicole Butkus (715-559-9252) for any assistance. Thank you.

Respectfully,

Environmental Design International inc.



Nicole J. Butkus
Assistant Project Manager



Garth A. Daley, P.E.
Senior Environmental Engineer

Enclosed

- Attachment 1 – Completed LPC-663 Form
- Attachment 2 – Boring Logs
- Attachment 3 – Data Summary Table – Sample Results
- Attachment 4 – Data Summary Table – Soil Volume Determination
- Attachment 5 – Soil Boring Location Figure
- Attachment 6 – Analytical Report – Partial Copy



*Environmental Design
International inc.*

Chicago & Baltimore

Ms. Grace Czystczon
Delta Engineering Group, LLC
Soil Disposal Package for Project Area 14
2345-2360 South Harding Avenue, Chicago, IL 60621
November 15, 2024

ATTACHMENT 1

COMPLETED IEPA LPC-663 FORM

DRAFT



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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

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

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

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

I. Source Location Information

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

Project Name: CDOT WPA Street Improvement PO # 114542 Office Phone Number, if available: N/A

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

2345-2360 South Harding Avenue (PESA 14)

City: Chicago State: IL Zip Code: 60623

County: Cook Township: West Chicago

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

Latitude: 41.84837 Longitude: -87.72342

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Google Maps

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

Approximate Start Date (mm/dd/yyyy): Dec 2, 2024 Approximate End Date (mm/dd/yyyy): Feb 28, 2025

Estimated Volume of debris (cu. Yd.): 3,400

II. Owner/Operator Information for Source Site

Site Owner

Name: Chicago Department of Transportation (CDOT)

Street Address: 2 North LaSalle Street, Suite 820

PO Box: _____

City: Chicago State: IL

Zip Code: 60602-3702 Phone: 312-744-8092

Contact: Jaqulen Samuel

Email, if available: jaqulen.samuel@cityofchicago.org

Site Operator

Name: Chicago Department of Transportation (CDOT)

Street Address: 2 North LaSalle Street, Suite 820

PO Box: _____

City: Chicago State: IL

Zip Code: 60602-3702 Phone: 312-744-8092

Contact: Jaqulen Samuel

Email, if available: jaqulen.samuel@cityofchicago.org

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

Uncontaminated Soil Certification**III. Basis for Certification and Attachments**

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

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

Two sample locations were selected at opposite ends of the 300 foot stretch of pavement (see included figure). Soil borings were installed to a depth of 5 feet. Soil samples were chosen by visual and PID screening. An estimated 3400 cubic yards (cy) of soil will be excavated, so the sample is adequate based on a typical sampling ratio of 1 sample per 5000 cy.

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

The collected samples were analyzed for compounds based on identified RECs and the CDOT Sampling Plan Guidance. A review of the sample results showed that all results were compliance with IEPA CCDD MAC standards (see included data table).. The reported pH for the sample were 6.72 and 7.06 pH units.

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

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

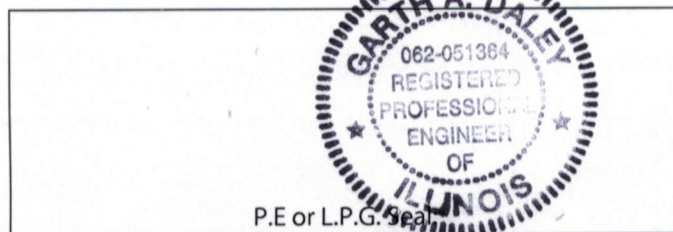
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Environmental Design International
 Street Address: 33 West Monroe Street, Suite 1825
 City: Chicago State: IL Zip Code: 60303-5326
 Phone: 312-645-1400

Garth A. Daley
 Printed Name:

 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

 Date:





*Environmental Design
International inc.*

Chicago & Baltimore

Ms. Grace Czystczon
Delta Engineering Group, LLC
Soil Disposal Package for Project Area 14
2345-2360 South Harding Avenue, Chicago, IL 60621
November 15, 2024

ATTACHMENT 2

BORING LOGS – EDI-PESA14-001 AND EDI-PESA-002

DRAFT



Environmental Design International inc.
33 West Monroe St., Suite 1825
Chicago, IL, 60603

Environmental Design International inc.

Telephone: 312-345-1400

BORING NUMBER EDI-PESA14-001

PAGE 1 OF 1

CLIENT <u>Delta/CDOT</u>	ISGS SITE NAME _____
EDI PROJECT NUMBER <u>1827.006</u>	SITE LOCATION <u>Chicago, Cook County, IL</u>
DATE STARTED <u>10/25/24</u> LOGGED BY <u>J. Reinhofer</u>	SITE NAME <u>PESA 14 - South Harding Avenue</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Geoprobe</u>	AT TIME OF DRILLING <u>---</u>
LATITUDE <u>1887963.13</u> LONGITUDE <u>1150431.2</u>	AT END OF DRILLING <u>---</u>
COMPLETION DEPTH <u>5 ft</u>	AFTER DRILLING <u>---</u>

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0								ASPHALT
0.5					PID = 4.4 ppm			FILL - black and grey, gravel and sand and silty clay, dense, moist
3.0	GP	100		3 to 4-foot depth interval soil sample collected for PNAs, RCRA/TCLP Metals, code R, BTEX, VOCs, SVOCs, MTBE, Total Lead, TCLP VOCs, and pH.	PID = 0 ppm			(CL-ML) SILTY CLAY - grey and brown, stiff, moist
5.0					PID = 0 ppm	CL-ML		

EDI IDOT SOIL BORING NO WELL - GINT STD U.S.GDT - 10/28/24 11:01 - S:\BENTLEY\GINT\GINTCL\PROJECTS\1827.006_DELTA CDOT WPA ST IMPROVEMENTS.GPJ

The stratification lines represent approximate boundaries.
The transition may be gradual.

Bottom of borehole at 5.0 feet.



Environmental Design International inc.
33 West Monroe St., Suite 1825
Chicago, IL, 60603

Environmental Design International inc.

Telephone: 312-345-1400

BORING NUMBER EDI-PESA14-002

PAGE 1 OF 1

CLIENT <u>Delta/CDOT</u>	ISGS SITE NAME _____
EDI PROJECT NUMBER <u>1827.006</u>	SITE LOCATION <u>Chicago, Cook County, IL</u>
DATE STARTED <u>10/25/24</u> LOGGED BY <u>J. Reinhofer</u>	SITE NAME <u>PESA 14 - South Harding Avenue</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Geoprobe</u>	AT TIME OF DRILLING <u>---</u>
LATITUDE <u>1887834.64</u> LONGITUDE <u>1150432.26</u>	AT END OF DRILLING <u>---</u>
COMPLETION DEPTH <u>5 ft</u>	AFTER DRILLING <u>---</u>

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0								ASPHALT
0.3								FILL - black and grey, gravel and sand, with some silty clay, dense, moist
1					PID = 0 ppm			
1.8								(CL-ML) SILTY CLAY - greyish brown, stiff, moist
2								
3	GP	100		3 to 4-foot depth interval soil sample collected for PNAs, RCRA Metals, VOCs, SVOCs, and pH.	PID = 0 ppm			
4						CL-ML		--> becomes light brown @ 3.5 ft
5					PID = 0 ppm			

The stratification lines represent approximate boundaries.
The transition may be gradual.

Bottom of borehole at 5.0 feet.

ATTACHMENT 3
DATA SUMMARY TABLE – SAMPLE RESULTS

DRAFT

Soil Analytical Results

CDOT PESA 14
2345-2360 South Harding Avenue
Chicago, IL 60623

		Laboratory ID :	O24J1065-02	O24J1065-03
		Customer Sample ID :	EDI-PESA14-001	EDI-PESA14-002
		Date Collected :	10/25/2024	10/25/2024
Analyte		Maximum Allowable Concentration		
Acenaphthene		570.0	<0.0191	<0.0182
Acetone		25.0	<0.0643	<0.0605
Anthracene		12000.0	<0.0287	<0.0273
Arsenic	within a MSA county	13.0	6.83	6.35
	within a non-MSA county	11.3	6.83	6.35
Barium		1500.0	56.3	25.4
Benzene		0.03	<0.00500	<0.00500
Benz(a)anthracene	within a populated area in MSA excluding Chicago	1.8	<0.0287	<0.0273
	within a populated area in non-MSA county or outside populated area	0.9	<0.0287	<0.0273
Benzo(b)fluoranthene	within a populated area in MSA excluding Chicago	2.1	<0.0287	<0.0273
	within a populated area in non-MSA county or outside populated area	0.9	<0.0287	<0.0273
Benzo(k)fluoranthene		9.0	<0.0382	<0.0363
Benzoic acid		400.0	<1.53	<1.45
Benzo(a)pyrene	within a populated area in MSA excluding Chicago	2.1	<0.0765	<0.0727
	within a populated area in non-MSA county	0.98	<0.0765	<0.0727
	outside populated area	0.09	<0.0765	<0.0727
Bis(2-chloroethyl)ether		0.66	<0.00956	<0.00909
Bis(2-ethylhexyl)phthalate		46.0	<0.191	<0.182
Bromodichloromethane		0.6	<0.00184	<0.00346
Butyl benzyl phthalate		930.0	<0.0574	<0.0545
Cadmium		5.2	<0.289	<0.280
Carbazole		0.6	<0.0191	<0.0182
Carbon disulfide		9.0	<0.00368	<0.00346
Carbon tetrachloride		0.07	<0.0184	<0.0173
4-Chloroaniline		0.7	<0.0287	<0.0273
Chlorobenzene		1.0	<0.00368	<0.00346
Dibromochloromethane		0.4	<0.00184	<0.00173
Chloroform		0.3	<0.00368	<0.00346
2-Chlorophenol		1.5	<0.0191	<0.0182
Chromium		21.0	21.2	16.6
Chromium, TCLP*		0.1	<0.0250	<0.0250
Chrysene		88.0	<0.0191	<0.0182
Dibenz(a,h)anthracene	within a populated area in MSA excluding Chicago	0.42	<0.0287	<0.0273
	within a populated area in non-MSA county	0.15	<0.0287	<0.0273
Di-n-butyl phthalate		2300.0	<0.0574	<0.0545
1,2-Dichlorobenzene		17.0	<0.0287	<0.0273
1,4-Dichlorobenzene		2.0	<0.0287	<0.0273

Soil Analytical Results

CDOT PESA 14
2345-2360 South Harding Avenue
Chicago, IL 60623

		Laboratory ID :	O24J1065-02	O24J1065-03
		Customer Sample ID :	EDI-PESA14-001	EDI-PESA14-002
		Date Collected :	10/25/2024	10/25/2024
Analyte		Maximum Allowable Concentration		
3,3'-Dichlorobenzidine		1.3	<0.115	<0.109
1,1-Dichloroethane		23.0	<0.00368	<0.00346
1,2-Dichloroethane		0.02	<0.00184	<0.00173
1,1-Dichloroethene		0.06	<0.00184	<0.00173
cis-1,2-Dichloroethene		0.4	<0.00368	<0.00346
trans-1,2-Dichloroethene		0.7	<0.00368	<0.00346
2,4-Dichlorophenol		0.48	<0.0191	<0.0182
1,2-Dichloropropane		0.03	<0.00184	<0.00173
cis-1,3-Dichloropropene		0.005	<0.00368	<0.00346
trans-1,3-Dichloropropene		0.005	<0.00368	<0.00346
Diethyl phthalate		470.0	<0.191	<0.182
2,4-Dimethylphenol		9.0	<0.0574	<0.0545
2,4-Dinitrophenol		3.3	<0.191	<0.182
2,4-Dinitrotoluene		0.25	<0.0287	<0.0273
2,6-Dinitrotoluene		0.26	<0.0191	<0.0182
Di-n-octyl phthalate		1600.0	<0.0287	<0.0273
Ethylbenzene		13.0	<0.00735	<0.00691
Fluoranthene		3100.0	<0.0287	<0.0273
Fluorene		560.0	<0.0191	<0.0182
Hexachlorobenzene		0.4	<0.0191	<0.0182
Hexachlorocyclopentadiene		1.1	<0.765	<0.727
Hexachloroethane		0.5	<0.0382	<0.0363
Indeno(1,2,3-cd)pyrene	within a populated area in MSA excluding Chicago	1.6	<0.0287	<0.0273
	within Chicago corporate limits or a populated area in non-MSA county or outside a populated area	0.9	<0.0287	<0.0273
Isophorone		8.0	<0.0287	<0.0273
Lead		107.0	20	14.3
Mercury	elemental (analyzed as total mercury)	0.1	<0.0629	<0.0594
	ionic (analyzed as total mercury)	0.89	<0.0629	<0.0594
Bromomethane		0.2	<0.0184	<0.0173
Methyl tert-butyl ether		0.32	<0.00184	<0.00173
Methylene chloride		0.02	<0.0184	<0.0173
2-Methylphenol		15.0	<0.00956	<0.00909
Naphthalene		1.8	<0.0287	<0.0273
Nitrobenzene		0.26	<0.0382	<0.0363
N-Nitrosodiphenylamine		1.0	<0.0287	<0.0273
N-Nitrosodi-n-propylamine		0.0018	<0.0191	<0.0182
Pentachlorophenol		0.02	<0.0574	<0.0545
Phenol		100.0	<0.0382	<0.0363
Aroclor 1016		1.0	<0.0250	---
Aroclor 1221		1.0	<0.0751	---
Aroclor 1232		1.0	<0.100	---

Soil Analytical Results

CDOT PESA 14
2345-2360 South Harding Avenue
Chicago, IL 60623

Laboratory ID :		O24J1065-02	O24J1065-03
Customer Sample ID :		EDI-PESA14-001	EDI-PESA14-002
Date Collected :		10/25/2024	10/25/2024
Analyte		Maximum Allowable Concentration	
Aroclor 1242		1.0	<0.0375
Aroclor 1248		1.0	<0.0375
Aroclor 1254		1.0	<0.0250
Aroclor 1260		1.0	<0.0375
Pyrene		2300.0	<0.0287
Selenium		1.3	1.45
Selenium, TCLP*		0.05	<0.0250
Silver		4.4	<0.578
Styrene		4.0	<0.00735
Tetrachloroethene		0.06	<0.00368
Toluene		12.0	<0.00500
1,2,4-Trichlorobenzene		5.0	<0.0287
1,1,1-Trichloroethane		2.0	<0.00184
1,1,2-Trichloroethane		0.02	<0.00184
Trichloroethene		0.06	<0.00184
2,4,5-Trichlorophenol		26.0	<0.0191
2,4,6-Trichlorophenol		0.66	<0.0191
Vinyl chloride		0.01	<0.00368
Xylenes, Total		5.6	<0.0110
pH		6.25 - 9.0	6.72
			7.06

Key:

--- = No result reported.

Uncontaminated Soil Used as Fill Material at Regulated Fill Operations (MAC) standard.

TCLP - Toxicity Characteristic Leaching Procedure

* = Value is the TACO Class I Soil Component of the Groundwater Ingestion Exposure Route (secondary)

ATTACHMENT 4
DATA SUMMARY TABLE – SOIL DISPOSAL VOLUME

DRAFT

Table 2

Soil Disposal Volumes

CDOT PESA 14
 2345-2360 South Harding Avenue
 Chicago, IL 60623

Soil Boring	Sample Collection Interval (ft. bgs)	Boring Depth (ft. bgs)	Potentially Impacted Area (ft ²)	Estimated Volume (yd ³)	Estimated Disposal Volume (yd ³)	Exceedence	CCDD Status
EDI-PESA14-001	0-5	5	7150	1324	1655	None	Yes
EDI-PESA14-002	0-5	5	7150	1324	1655	None	Yes

TOTAL (CCDD)			14300	2648	3400		
TOTAL (LANDFILL)			N/A	N/A	N/A		
TOTAL (SITE - FT²)			14300.0	N/A	N/A		
TOTAL (SITE - ACRE)			0.33	N/A	N/A		

Key:

bgs = below ground surface.

ft = feet.

ft² = square feet.

yd³ = cubic yard.

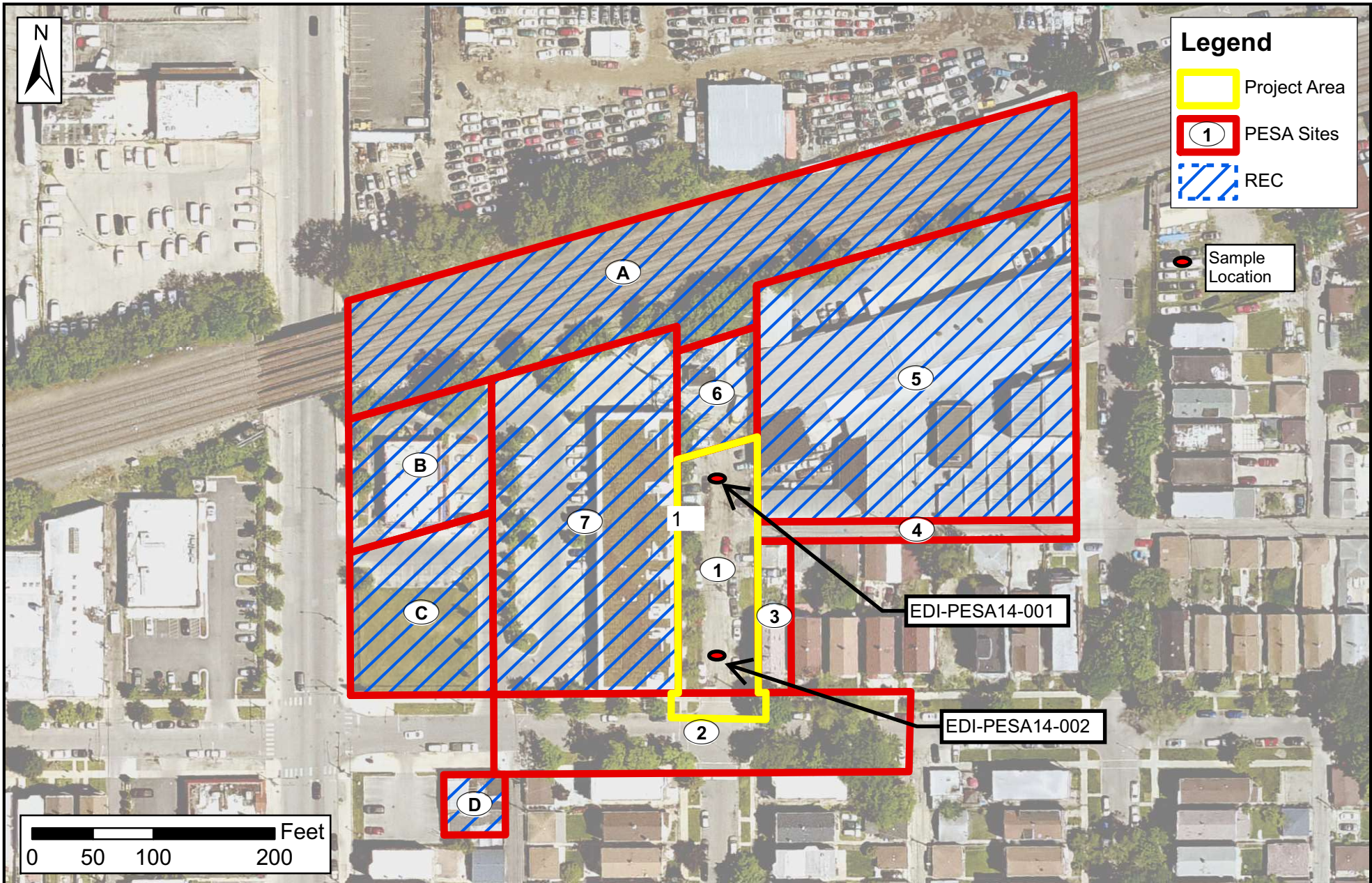
N/A = Not Applicable.

Notes

1. Potentially Impacted Areas were determined using the area measurement tool in Google Maps, then rounding up to the next 50 square feet (ft²).
2. Estimated Volume in cubic yards (cy) was calculated by multiplying the Potentially Impacted Area in ft² by the Termination depth (ft bgs) then dividing by 27.
3. Estimated Disposal Volume was calculated by multiplying the Estimated Volume in cy by a swell factor of 1.25.

ATTACHMENT 5
SOIL BORING/SOIL SAMPLE LOCATION FIGURE

DRAFT



Environmental Design International inc.
 33 W. MONROE STREET, SUITE 1825,
 CHICAGO, IL 60603
 Ph. (312) 345-1400 Fax (312) 345-0529

PREPARED FOR:



Figure 1

Sample Location Figure
 Preliminary Environmental Site Assessment

2345-2360 South Harding Avenue, Chicago 60623

PROJECT NO: 1827.006

DATE: 11/15/2024

DRAWN BY: NJB

APPROVED BY: GD



Ms. Grace Czystczon
Delta Engineering Group, LLC
Soil Disposal Package for Project Area 14
2345-2360 South Harding Avenue, Chicago, IL 60621
November 15, 2024

ATTACHMENT 6
ANALYTICAL REPORT – PARTIAL COPY

DRAFT



sterling labs

- O'Hare Location

509 N. 3rd Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 www.thesterlinglab.com

November 04, 2024

Environmental Design International, Inc.
33 West Monroe Street Suite 1825
Chicago, IL 60603

Telephone: (312) 345-0461
Fax: (312) 345-0529

Analytical Report for Work Order: O24J1065 Revision 1

RE: 1827.006, CDOT WPA PSI, 5215-5226 S. Hoynes Ave., 2345-2360 S. Harding Ave., Chicago, IL

Dear Environmental Design International, Inc.:

Sterling Labs has received 3 samples for the referenced project on October 25, 2024 11:34. The analytical results are presented in the following report.

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

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

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

Sincerely,

Justice Kwateng
Project Manager

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



Customer: Environmental Design International, Inc.

Work Order Sample Summary

Project: 1827.006, CDOT WPA PSI, 5215-5226 S. Hoyne Ave., 2345-2360
S. Harding Ave., Chicago, IL

WorkOrder: O24J1065

Laboratory ID	Sample ID	Tag Number	Collection Date	Date Received
O24J1065-01	EDI-PESA13-001		10/25/24 08:47	10/25/24 11:34
O24J1065-02	EDI-PESA14-001		10/25/24 09:53	10/25/24 11:34
O24J1065-03	EDI-PESA14-002		10/25/24 10:06	10/25/24 11:34



Customer: Environmental Design International, Inc.

Project: 1827.006, CDOT WPA PSI, 5215-5226 S. Hoyne Ave., 2345-2360 S. Harding Ave., Chicago, IL

Case Narrative

WorkOrder: O24J1065

Work Order: O24J1065

The samples were received on 10/25/2024 11:34:00 AM. The temperature of the cooler(s) at receipt was:

Cooler:	Temp C
Default Cooler	0.4

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

At the customers request, sample EDI-PESA13-01 (O24J1065-01) was re-analyzed for pH. The results of the re-analysis are presented in this report.

GCMS Semivolatiles

8270 SVOC

O24J1065-01: The surrogate recoveries are above control criteria. There are no target compounds detections.

B24J1542-BS1: The recovery of Benzoic acid is outside control criteria (22%- 118%) at 7%.

GCMS Volatiles

8260 VOC

B24J1563-BS1/BSD1: The recovery of Chloromethane exceeded control criteria (70% to 130%) at 141% in the BS and 135% in the BSD and the recovery of Vinyl chloride exceeded control criteria (70% to 130%) at 140% in the BS and 132% in the BSD. As there were no detection for the compounds in the sample, this exceedance would not impact sample data.

8260B VOC

B24J1688-BSD1 had an elevated recovery above the 70 to 130% control limits for Vinyl chloride at 131%. The compound was non-detected in the reported samples.

Inorganics

9095B Paint filter

The paint filter test for the following samples failed according to EPA Method SW-846 9095B. The sample contained fines that passed through the paint filter which meets the definition of a free liquid according to SW-846 9095B. No liquid was observed in the following samples:

EDI-PESA13-001 (O24J1065-01)

EDI-PESA14-001 (O24J1065-02)



Date Reported: 11/4/2024
Date Printed: 11/4/2024

Analytical Results

Customer: Environmental Design International, Inc.
Work Order: O24J1065
Project: 1827.006, CDOT WPA PSI, 5215-5226 S. Hoyne Ave., 2345-2360

Client Sample ID: EDI-PESA14-001
Collection Date: 10/25/2024 09:53
Matrix: Solid

Lab ID: O24J1065-02

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Volatile Organic Compounds by GC/MS SW1311 / SW8260B / SW5030. Prep Date: 10/30/24 07:54. Analyst: TC1. Includes ILEPA 100256 and various compounds like 1,1-Dichloroethene, 1,2-Dichloroethane, etc.

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Volatile Organic Compounds by GC/MS SW8260B / SW5035. Prep Date: 10/28/24 08:35. Analyst: TC1. Includes ILEPA 100256 and various compounds like Acetone, Benzene, Bromodichloromethane, etc.



Date Reported: 11/4/2024
Date Printed: 11/4/2024

Analytical Results

Customer: Environmental Design International, Inc.
Work Order: O24J1065
Project: 1827.006, CDOT WPA PSI, 5215-5226 S. Hoyne Ave., 2345-2360

Client Sample ID: EDI-PESA14-001
Collection Date: 10/25/2024 09:53
Matrix: Solid

Lab ID: O24J1065-02 (Continued)

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains three sections: Volatile Organic Compounds by GC/MS, Semivolatile Organic Compounds by GC/MSW1311 / SW8270D / SW3510, and Semivolatile Organic Compounds by GC/MSW8270D / SW3550.



Date Reported: 11/4/2024

Date Printed: 11/4/2024

Analytical Results

Customer: Environmental Design International, Inc.
Work Order: O24J1065
Project: 1827.006, CDOT WPA PSI, 5215-5226 S. Hoyne Ave., 2345-2360

Client Sample ID: EDI-PESA14-001
Collection Date: 10/25/2024 09:53
Matrix: Solid

Lab ID: O24J1065-02 (Continued)

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains data for Semivolatile Organic Compounds by GC/MSW8270D / SW3550, ILEPA 100256, and various chemical compounds.



Date Reported: 11/4/2024

Date Printed: 11/4/2024

Analytical Results

Customer: Environmental Design International, Inc.
Work Order: O24J1065
Project: 1827.006, CDOT WPA PSI, 5215-5226 S. Hoyne Ave., 2345-2360

Client Sample ID: EDI-PESA14-001
Collection Date: 10/25/2024 09:53
Matrix: Solid

Lab ID: O24J1065-02 (Continued)

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Semivolatile Organic Compounds by GC/MSW8270D / SW3550. Prep Date: 10/29/24 11:30. Analyst: TM1. Includes ILEPA 100256 list.

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Polychlorinated Biphenyls (PCBs) by GC/ESW8082A / SW3546. Prep Date: 10/29/24 08:15. Analyst: AY1. Includes ILEPA 100256 list.



Date Reported: 11/4/2024
Date Printed: 11/4/2024

Analytical Results

Customer: Environmental Design International, Inc.
Work Order: O24J1065
Project: 1827.006, CDOT WPA PSI, 5215-5226 S. Hoyne Ave., 2345-2360

Client Sample ID: EDI-PESA14-001
Collection Date: 10/25/2024 09:53
Matrix: Solid

Lab ID: O24J1065-02 (Continued)

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains multiple sections for Metals by ICP-MS, Mercury by CVAA, and Wet Chemistry.



Date Reported: 11/4/2024

Date Printed: 11/4/2024

Analytical Results

Customer: Environmental Design International, Inc.
Work Order: O24J1065
Project: 1827.006, CDOT WPA PSI, 5215-5226 S. Hoyne Ave., 2345-2360

Client Sample ID: EDI-PESA14-001
Collection Date: 10/25/2024 09:53
Matrix: Solid

Lab ID: O24J1065-02 (Continued)

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains three rows of analytical data for Wet Chemistry and ILEPA 100256 tests.



Date Reported: 11/4/2024
Date Printed: 11/4/2024

Analytical Results

Customer: Environmental Design International, Inc.
Work Order: O24J1065
Project: 1827.006, CDOT WPA PSI, 5215-5226 S. Hoyne Ave., 2345-2360

Client Sample ID: EDI-PESA14-002
Collection Date: 10/25/2024 10:06
Matrix: Solid

Lab ID: O24J1065-03

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains data for Volatile Organic Compounds by GC/MS, SW8260B / SW5035, ILEPA 100256, listing various compounds like Acetone, Benzene, etc., with their respective results and RL values.



Date Reported: 11/4/2024

Date Printed: 11/4/2024

Analytical Results

Customer: Environmental Design International, Inc.
Work Order: O24J1065
Project: 1827.006, CDOT WPA PSI, 5215-5226 S. Hoyne Ave., 2345-2360

Client Sample ID: EDI-PESA14-002
Collection Date: 10/25/2024 10:06
Matrix: Solid

Lab ID: O24J1065-03 (Continued)

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains data for Semivolatile Organic Compounds by GC/MSW8270D / SW3550, including ILEPA 100256 and various chemical compounds.



Date Reported: 11/4/2024
Date Printed: 11/4/2024

Analytical Results

Customer: Environmental Design International, Inc.
Work Order: O24J1065
Project: 1827.006, CDOT WPA PSI, 5215-5226 S. Hoyne Ave., 2345-2360

Client Sample ID: EDI-PESA14-002
Collection Date: 10/25/2024 10:06
Matrix: Solid

Lab ID: O24J1065-03 (Continued)

Table with columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Contains data for Semivolatile Organic Compounds by GC/MSW8270D / SW3550, including ILEPA 100256 and various chemical compounds like 2,6-Dinitrotoluene, Di-n-octyl phthalate, etc.



Date Reported: 11/4/2024
Date Printed: 11/4/2024

Analytical Results

Customer: Environmental Design International, Inc.
Work Order: O24J1065
Project: 1827.006, CDOT WPA PSI, 5215-5226 S. Hoyne Ave., 2345-2360

Client Sample ID: EDI-PESA14-002
Collection Date: 10/25/2024 10:06
Matrix: Solid

Lab ID: O24J1065-03 (Continued)

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
Metals by ICP-MS		SW6020 B / SW3050		Prep Date:	10/29/24 11:48	Analyst: MS6		
ILEPA 100256								
Arsenic	6.35	0.559		mg/Kg dry	10	10/30/2024	B24J1583	S24J1054
Barium	25.4	0.559		mg/Kg dry	10	10/30/2024	B24J1583	S24J1054
Cadmium	ND	0.280		mg/Kg dry	10	10/30/2024	B24J1583	S24J1054
Chromium	16.6	0.559		mg/Kg dry	10	10/30/2024	B24J1583	S24J1054
Lead	14.3	0.280		mg/Kg dry	10	10/30/2024	B24J1583	S24J1054
Selenium	ND	0.559		mg/Kg dry	10	10/30/2024	B24J1583	S24J1054
Silver	ND	0.559		mg/Kg dry	10	10/30/2024	B24J1583	S24J1054
Mercury by CVAA		SW7471B		Prep Date:	10/28/24 11:05	Analyst: UJ1		
ILEPA 100256								
Mercury	ND	0.0594		mg/Kg dry	1	10/28/2024	B24J1509	S24J0931
Wet Chemistry		SM2540G		Prep Date:	10/25/24 18:25	Analyst: AS8		
Total Solids	81.9	0.100	*	% (Percent)	1	10/28/2024	B24J1476	
Wet Chemistry		SW9045C		Prep Date:	10/28/24 11:04	Analyst: DM2		
ILEPA 100256								
pH	7.06			pH Units	1	10/28/2024	B24J1505	

Qualifiers:

ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated method blank	P - RPD outside accepted recovery limits
HT - Sample received past holding time	E - Value above quantitation range
J1 - Estimated result based on MS/MSD results	H - Holding time exceeded
* - Non-accredited parameter	Q - Quality control issue. Please see case narrative



509 N. 3rd Ave., Des Plaines, IL 60016 Phone: (800) 246-0663
 2242 W. Harrison St., Suite 200, Chicago, IL 60612 Phone: (312) info@thesterlinglab.com



024J1065

PM: Justice Kwateng

No: 103153

Page: 1 of 1

CHAIN OF CUSTODY Environmental Design International, Inc.

Company: EDI

Project Number: 1827-006 Client Tracking No.: _____

Project Name: CDOT WPA PSI

Project Location: 5215-5226 S Hayne Ave, 2345-2360 S Harding Ave, Chicago, IL

Sampler(s): Joe Reinhofer

Report To: Garth Daley Phone: (708) 203-8672

Fax: _____

QC Level: 1 2 3 4 e-mail: gdaley@envdesigni.com

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	PNAS	RCRA Metals	PH	BTEX	VOCs	SVOCs	MTBE	Total Lead	TCLP Metals	Code R	TCLP VOCs
EDI-PESA13-001	10/25/24	0847	S		X		5	X	X	X		X	X	X	X	X	X	X
EDI-PESA14-001	↓	0953	↓		↓		↓	X	X	X	X	X	X	X	X	X	X	X
EDI-PESA14-002	↓	1006	↓		↓		↓	X	X	X	X	X	X	X	X	X	X	X

P.O. No.: _____

Quote No.: _____

Turn Around Time (Days): 1 2 ③ 4 5-7 10

Results Needed: _____ am/pm

Remarks	Lab No.:
	01A-E
	02A-E
	03A-E

Relinquished by: (Signature) <u>Joe Reinhofer</u>	Date/Time: <u>10/25 11:34</u>	Comments: <u>CHZ</u>	Laboratory Work Order No.: <u>024J1065</u>
Received by: (Signature) <u>[Signature]</u>	Date/Time: <u>10/25/24 11:34</u>		
Relinquished by: (Signature) <u>[Signature]</u>	Date/Time: <u>10/25/24 15:07</u>	Preservation Code: A = None B = HNO ₃ C = NaOH D = H ₂ SO ₄ E = HCl F = 5035/EnCore G = Other	Received on Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received by: (Signature) <u>[Signature]</u>	Date/Time: <u>10.25.24 15:07</u>		
Relinquished by: (Signature) <u>[Signature]</u>	Date/Time: <u>10.25.24 16:39</u>	Temperature: <u>0.4</u> °C <u>CHZ</u>	
Received by: (Signature) <u>[Signature]</u>	Date/Time: <u>10/25/24 16:39</u>		

Sample Receipt Checklist

Work Order: O24J1065

Printed: 10/25/2024 6:08:10PM

Client: Environmental Design International, Inc.
Project: Soil Analysis

Date Due: Wednesday, October 30, 2024

Received By: Erin Kripke
Logged In By: Alan Slavick

Date Received: 10/25/2024 11:34:00AM
Date Logged In: 10/25/2024 6:04:00PM

Cooler Name: Default Cooler

How were samples received: Courier

Cooler temperature at of below 6 degrees Celsius: Yes

Chain of Custody present and properly completed : Yes

Turnaround Time is indicated and specified: Yes

Chain of Custody agrees with sample labels: Yes

Samples received within hold time: Yes

Proper sample containers received intact: Yes

Sufficient sample volume: Yes

Containers properly preserved: Yes

Custody seals present: No

Volatile water vials received: No

Samples going out of hold time within 24 hours:

Sample Receipt Comments

Work Order: O24J1065

The samples were received on 10/25/2024 11:34:00 AM. The temperature of the cooler(s) at receipt was:

Cooler:	Temp C
Default Cooler	0.4

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

AS

10/25/2024

Reviewed By:

Date:



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
NELAP - RECOGNIZED
ENVIRONMENTAL LABORATORY ACCREDITATION

is hereby granted to

Sterling Labs (fka Environmental Monitoring and Tech)

509 N.3rd Avenue
Des Plaines, IL 60016

NELAP ACCREDITED

Accreditation Number #100256



According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part 186 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part 186. Please contact the Illinois EPA Environmental Laboratory Accreditation Program (IL ELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Illinois is not an endorsement or a guarantee of validity of the data generated by the laboratory.

Primary Accrediting Authority: Illinois

Millie Rose
 Supervisor
 Environmental Laboratory Accreditation Program

Certificate No: 1002562024-21

Expiration Date: 7/31/2025

Issued On: 8/13/2024

State of Illinois Environmental Protection Agency

Awards the Certificate of Approval to:

Sterling Labs (fka Environmental Monitoring and Tech)
509 N.3rd Avenue
Des Plaines, IL 60016

The Illinois Environmental Laboratory Accreditation Program encourages all clients and data users to verify the most current scope of accreditation for Sterling Labs (fka Environmental Monitoring and Tech).

Certificate No.: 1002562024-21

Primary AB

Field of Testing /Matrix: CWA (Non Potable Water)

Method EPA 1664B

Oil & Grease IL

Method EPA 180.1 Rev: 2

Turbidity IL

Method EPA 200.7 Rev: 4.4

Aluminum IL

Antimony IL

Arsenic IL

Barium IL

Beryllium IL

Boron IL

Cadmium IL

Calcium IL

Chromium IL

Cobalt IL

Copper IL

Iron IL

Lead IL

Magnesium IL

Manganese IL

Molybdenum IL

Nickel IL

Phosphorus IL

Potassium IL

Selenium IL

Silver IL

Sodium IL

Thallium IL

Tin IL

Titanium IL

Vanadium IL

Zinc IL

Method EPA 200.8 Rev: 5.4

Aluminum IL

Antimony IL

Arsenic IL

Barium IL

Beryllium IL

Boron IL

Field of Testing /Matrix: CWA (Non Potable Water)

Cadmium	IL
Calcium	IL
Chromium	IL
Cobalt	IL
Copper	IL
Hardness (calc.)	IL
Iron	IL
Lead	IL
Magnesium	IL
Manganese	IL
Molybdenum	IL
Nickel	IL
Potassium	IL
Selenium	IL
Silver	IL
Sodium	IL
Thallium	IL
Tin	IL
Titanium	IL
Vanadium	IL
Zinc	IL

Method EPA 245.1 Rev: 3

Mercury	IL
---------	----

Method EPA 300.0 Rev: 2.1

Bromide	IL
Chloride	IL
Fluoride	IL
Nitrate	IL
Nitrate plus Nitrite as N	IL
Nitrate-nitrite	IL
Nitrite	IL
Sulfate	IL

Method EPA 350.1 Rev: 2

Ammonia as N	IL
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Method EPA 420.1

Total phenolics	IL
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Method EPA 608.3 GC-ECD

4,4'-DDD	IL
4,4'-DDE	IL
4,4'-DDT	IL
Aldrin	IL
alpha-BHC (alpha-Hexachlorocyclohexane)	IL
Aroclor-1016 (PCB-1016)	IL
Aroclor-1221 (PCB-1221)	IL
Aroclor-1232 (PCB-1232)	IL
Aroclor-1242 (PCB-1242)	IL
Aroclor-1248 (PCB-1248)	IL
Aroclor-1254 (PCB-1254)	IL
Aroclor-1260 (PCB-1260)	IL
beta-BHC (beta-Hexachlorocyclohexane)	IL
Chlordane (tech.)(N.O.S.)	IL

Field of Testing /Matrix: CWA (Non Potable Water)

delta-BHC	IL
Dieldrin	IL
Endosulfan I	IL
Endosulfan II	IL
Endosulfan sulfate	IL
Endrin	IL
Endrin aldehyde	IL
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	IL
Heptachlor	IL
Heptachlor epoxide	IL
Methoxychlor	IL
Toxaphene (Chlorinated camphene)	IL

Method EPA 624.1

1,1,1-Trichloroethane	IL
1,1,2,2-Tetrachloroethane	IL
1,1,2-Trichloroethane	IL
1,1-Dichloroethane	IL
1,1-Dichloroethylene	IL
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Dichloroethane (Ethylene dichloride)	IL
1,2-Dichloropropane	IL
1,3-Dichlorobenzene	IL
1,4-Dichlorobenzene	IL
2-Chloroethyl vinyl ether	IL
Acetonitrile	IL
Acrolein (Propenal)	IL
Acrylonitrile	IL
Benzene	IL
Bromodichloromethane	IL
Bromoform	IL
Carbon tetrachloride	IL
Chlorobenzene	IL
Chlorodibromomethane	IL
Chloroethane (Ethyl chloride)	IL
Chloroform	IL
cis-1,3-Dichloropropene	IL
Ethylbenzene	IL
Methyl bromide (Bromomethane)	IL
Methyl chloride (Chloromethane)	IL
Methyl tert-butyl ether (MTBE)	IL
Methylene chloride (Dichloromethane)	IL
Tetrachloroethylene (Perchloroethylene)	IL
Toluene	IL
trans-1,2-Dichloroethylene	IL
trans-1,3-Dichloropropylene	IL
Trichloroethene (Trichloroethylene)	IL
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	IL
Vinyl chloride	IL
Xylene (total)	IL

Method EPA 625.1

1,2,4-Trichlorobenzene	IL
------------------------	----

Field of Testing /Matrix: CWA (Non Potable Water)

1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,3-Dichlorobenzene	IL
1,4-Dichlorobenzene	IL
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	IL
2,4,5-Trichlorophenol	IL
2,4,6-Trichlorophenol	IL
2,4-Dichlorophenol	IL
2,4-Dimethylphenol	IL
2,4-Dinitrophenol	IL
2,4-Dinitrotoluene (2,4-DNT)	IL
2,6-Dinitrotoluene (2,6-DNT)	IL
2-Chloronaphthalene	IL
2-Chlorophenol	IL
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	IL
2-Nitrophenol	IL
3,3'-Dichlorobenzidine	IL
4-Bromophenyl phenyl ether	IL
4-Chloro-3-methylphenol	IL
4-Chlorophenyl phenylether	IL
4-Nitrophenol	IL
Acenaphthene	IL
Acenaphthylene	IL
Anthracene	IL
Benzidine	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL
Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL
bis(2-Chloroethoxy)methane	IL
bis(2-Chloroethyl) ether	IL
bis(2-Ethylhexyl) phthalate (DEHP)	IL
Butyl benzyl phthalate	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Diethyl phthalate	IL
Dimethyl phthalate	IL
Di-n-butyl phthalate	IL
Di-n-octyl phthalate	IL
Fluoranthene	IL
Fluorene	IL
Hexachlorobenzene	IL
Hexachlorobutadiene	IL
Hexachlorocyclopentadiene	IL
Hexachloroethane	IL
Indeno(1,2,3-cd) pyrene	IL
Isophorone	IL
Naphthalene	IL
Nitrobenzene	IL
n-Nitrosodimethylamine	IL
n-Nitrosodi-n-propylamine	IL
n-Nitrosodiphenylamine	IL

Field of Testing /Matrix: CWA (Non Potable Water)

Pentachlorophenol	IL
Phenanthrene	IL
Phenol	IL
Pyrene	IL
Method HACH 8000	
Chemical oxygen demand	IL
Method SM 2320 B-2011	
Alkalinity as CaCO ₃	IL
Method SM 2340 B-2011	
Hardness	IL
Method SM 2540 B-2011	
Residue-total	IL
Method SM 2540 C-2011	
Residue-filterable (TDS)	IL
Method SM 2540 D-2011	
Residue-nonfilterable (TSS)	IL
Method SM 3500-Cr B-2011	
Chromium VI	IL
Method SM 4500-Cl G-2011	
Total residual chlorine	IL
Method SM 4500-CN⁻ E-2011	
Cyanide	IL
Method SM 4500-CN⁻ G-2011	
Amenable cyanide	IL
Method SM 4500-H⁺ B-2011	
pH	IL
Method SM 4500-NH₃ C-2011	
Ammonia as N	IL
Total Kjeldahl Nitrogen (TKN)	IL
Method SM 4500-NH₃ G-2011	
Ammonia	IL
Method SM 4500-NH₃ H-2011	
Ammonia	IL
Method SM 4500-NO₂⁻ B-2011	
Nitrite	IL
Method SM 4500-NO₃⁻ E-2011	
Nitrate	IL
Method SM 4500-P E-2011	
Phosphorus	IL
Method SM 4500-P F-2011	
Orthophosphate as P	IL
Phosphorus	IL
Method SM 4500-S₂⁻ D-2011	
Sulfide	IL
Method SM 4500-S₂⁻ F-2011	
Sulfide	IL
Method SM 4500-SiO₂ C-2011	

Field of Testing /Matrix: CWA (Non Potable Water)

Silica as SiO ₂	IL
Method SM 4500-SO₃⁻ B-2011	
Sulfite-SO ₃	IL
Method SM 5210 B-2011	
Biochemical oxygen demand	IL
Carbonaceous BOD, CBOD	IL
Method SM 5310 B-2011	
Total organic carbon	IL

Field of Testing /Matrix: RCRA (Non Potable Water)**Method EPA 1010A**

Ignitability IL

Method EPA 1311 Rev: 0

Toxicity Characteristic Leaching Procedure (TCLP) IL

Method EPA 1312 Rev: 0

Synthetic Precipitation Leaching Procedure (SPLP) IL

Method EPA 6010D

Aluminum IL

Antimony IL

Arsenic IL

Barium IL

Beryllium IL

Boron IL

Cadmium IL

Calcium IL

Chromium IL

Cobalt IL

Copper IL

Iron IL

Lead IL

Magnesium IL

Manganese IL

Molybdenum IL

Nickel IL

Potassium IL

Selenium IL

Silver IL

Sodium IL

Strontium IL

Thallium IL

Tin IL

Titanium IL

Vanadium IL

Zinc IL

Method EPA 6020B

Aluminum IL

Antimony IL

Arsenic IL

Barium IL

Beryllium IL

Boron IL

Cadmium IL

Calcium IL

Chromium IL

Cobalt IL

Copper IL

Iron IL

Lead IL

Magnesium IL

Manganese IL

Molybdenum IL

Field of Testing /Matrix: RCRA (Non Potable Water)

Nickel	IL
Potassium	IL
Selenium	IL
Silver	IL
Sodium	IL
Thallium	IL
Tin	IL
Titanium	IL
Vanadium	IL
Zinc	IL

Method EPA 7196A Rev: 1

Chromium VI	IL
-------------	----

Method EPA 7470A Rev: 1

Mercury	IL
---------	----

Method EPA 8011

1,2,3-Trichloropropane	IL
1,2-Dibromo-3-chloropropane (DBCP)	IL
1,2-Dibromoethane (EDB, Ethylene dibromide)	IL

Method EPA 8015B Rev: 2

Ethylene glycol	IL
-----------------	----

Method EPA 8015D

Diesel range organics (DRO)	IL
Ethanol	IL
Gasoline range organics (GRO)	IL
Isopropyl alcohol (2-Propanol, Isopropanol)	IL
Methanol	IL
n-Propanol (1-Propanol)	IL
tert-Butyl alcohol	IL

Method EPA 8081B Rev: 2

4,4'-DDD	IL
4,4'-DDE	IL
4,4'-DDT	IL
Alachlor	IL
Aldrin	IL
alpha-BHC (alpha-Hexachlorocyclohexane)	IL
alpha-Chlordane, cis-Chlordane	IL
Atrazine	IL
beta-BHC (beta-Hexachlorocyclohexane)	IL
Chlordane (tech.)(N.O.S.)	IL
delta-BHC	IL
Dieldrin	IL
Endosulfan I	IL
Endosulfan II	IL
Endosulfan sulfate	IL
Endrin	IL
Endrin aldehyde	IL
Endrin ketone	IL
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	IL
gamma-Chlordane	IL
Heptachlor	IL

Field of Testing /Matrix: RCRA (Non Potable Water)

Heptachlor epoxide	IL
Methoxychlor	IL
Toxaphene (Chlorinated camphene)	IL

Method EPA 8082A

Aroclor-1016 (PCB-1016)	IL
Aroclor-1221 (PCB-1221)	IL
Aroclor-1232 (PCB-1232)	IL
Aroclor-1242 (PCB-1242)	IL
Aroclor-1248 (PCB-1248)	IL
Aroclor-1254 (PCB-1254)	IL
Aroclor-1260 (PCB-1260)	IL

Method EPA 8260B

1,1,1,2-Tetrachloroethane	IL
1,1,1-Trichloroethane	IL
1,1,2,2-Tetrachloroethane	IL
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	IL
1,1,2-Trichloroethane	IL
1,1-Dichloroethane	IL
1,1-Dichloroethylene	IL
1,1-Dichloropropene	IL
1,2,3-Trichlorobenzene	IL
1,2,3-Trichloropropane	IL
1,2,4-Trichlorobenzene	IL
1,2,4-Trimethylbenzene	IL
1,2-Dibromo-3-chloropropane (DBCP)	IL
1,2-Dibromoethane (EDB, Ethylene dibromide)	IL
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Dichloroethane (Ethylene dichloride)	IL
1,2-Dichloropropane	IL
1,3,5-Trichlorobenzene	IL
1,3,5-Trimethylbenzene	IL
1,3-Dichlorobenzene	IL
1,3-Dichloropropane	IL
1,4-Dichlorobenzene	IL
1,4-Dioxane (1,4- Diethyleneoxide)	IL
2,2-Dichloropropane	IL
2-Butanone (Methyl ethyl ketone, MEK)	IL
2-Chloroethyl vinyl ether	IL
2-Chlorotoluene	IL
2-Hexanone	IL
4-Chlorotoluene	IL
4-Isopropyltoluene (p-Cymene,p-Isopropyltoluene)	IL
4-Methyl-2-pentanone (MIBK)	IL
Acetone	IL
Acetonitrile	IL
Acrolein (Propenal)	IL
Acrylonitrile	IL
Allyl chloride (3-Chloropropene)	IL
Benzene	IL
Bromobenzene	IL
Bromochloromethane	IL

Field of Testing /Matrix: RCRA (Non Potable Water)

Bromodichloromethane	IL
Bromoform	IL
Carbon disulfide	IL
Carbon tetrachloride	IL
Chlorobenzene	IL
Chlorodibromomethane	IL
Chloroethane (Ethyl chloride)	IL
Chloroform	IL
Chloroprene (2-Chloro-1,3-butadiene)	IL
cis-1,2-Dichloroethylene	IL
cis-1,3-Dichloropropene	IL
Dibromofluoromethane	IL
Dibromomethane (Methylene bromide)	IL
Dichlorodifluoromethane (Freon-12)	IL
Diethyl ether	IL
Ethyl acetate	IL
Ethylbenzene	IL
Hexachlorobutadiene	IL
Isobutyl alcohol (2-Methyl-1-propanol)	IL
Isopropyl alcohol (2-Propanol, Isopropanol)	IL
Isopropylbenzene	IL
m+p-xylene	IL
Methacrylonitrile	IL
Methyl bromide (Bromomethane)	IL
Methyl chloride (Chloromethane)	IL
Methyl methacrylate	IL
Methyl tert-butyl ether (MTBE)	IL
Methylene chloride (Dichloromethane)	IL
m-Xylene	IL
Naphthalene	IL
n-Butyl alcohol (1-Butanol, n-Butanol)	IL
n-Butylbenzene	IL
n-Propanol (1-Propanol)	IL
n-Propylbenzene	IL
o-Xylene	IL
Propionitrile (Ethyl cyanide)	IL
p-Xylene	IL
sec-Butylbenzene	IL
Styrene	IL
tert-Butylbenzene	IL
Tetrachloroethylene (Perchloroethylene)	IL
Tetrahydrofuran (THF)	IL
Toluene	IL
trans-1,2-Dichloroethylene	IL
trans-1,3-Dichloropropylene	IL
trans-1,4-Dichloro-2-butene	IL
Trichloroethene (Trichloroethylene)	IL
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	IL
Vinyl acetate	IL
Vinyl chloride	IL
Xylene (total)	IL

Method EPA 8260D

Field of Testing /Matrix: RCRA (Non Potable Water)

1,1,1,2-Tetrachloroethane	IL
1,1,1-Trichloroethane	IL
1,1,2,2-Tetrachloroethane	IL
1,1,2-Trichloroethane	IL
1,1-Dichloroethane	IL
1,1-Dichloroethylene	IL
1,1-Dichloropropene	IL
1,2,3-Trichlorobenzene	IL
1,2,3-Trichloropropane	IL
1,2,4-Trichlorobenzene	IL
1,2,4-Trimethylbenzene	IL
1,2-Dibromo-3-chloropropane (DBCP)	IL
1,2-Dibromoethane (EDB, Ethylene dibromide)	IL
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Dichloroethane (Ethylene dichloride)	IL
1,2-Dichloropropane	IL
1,3,5-Trimethylbenzene	IL
1,3-Dichlorobenzene	IL
1,3-Dichloropropane	IL
1,4-Dichlorobenzene	IL
1,4-Dioxane (1,4- Diethyleneoxide)	IL
2,2-Dichloropropane	IL
2-Butanone (Methyl ethyl ketone, MEK)	IL
2-Chloroethyl vinyl ether	IL
2-Chlorotoluene	IL
2-Hexanone	IL
4-Chlorotoluene	IL
4-Isopropyltoluene (p-Cymene,p-Isopropyltoluene)	IL
4-Methyl-2-pentanone (MIBK)	IL
Acetone	IL
Acetonitrile	IL
Acrolein (Propenal)	IL
Acrylonitrile	IL
Allyl chloride (3-Chloropropene)	IL
Benzene	IL
Bromobenzene	IL
Bromochloromethane	IL
Bromodichloromethane	IL
Bromoform	IL
Carbon disulfide	IL
Carbon tetrachloride	IL
Chlorobenzene	IL
Chlorodibromomethane	IL
Chloroethane (Ethyl chloride)	IL
Chloroform	IL
Chloroprene (2-Chloro-1,3-butadiene)	IL
cis-1,2-Dichloroethylene	IL
cis-1,3-Dichloropropene	IL
cis-1,4-Dichloro-2-butene	IL
Dibromomethane (Methylene bromide)	IL
Dichlorodifluoromethane (Freon-12)	IL
Diethyl ether	IL

Field of Testing /Matrix: RCRA (Non Potable Water)

Ethyl acetate	IL
Ethylbenzene	IL
Hexachlorobutadiene	IL
Isobutyl alcohol (2-Methyl-1-propanol)	IL
Isopropyl alcohol (2-Propanol, Isopropanol)	IL
Isopropylbenzene	IL
m+p-xylene	IL
Methacrylonitrile	IL
Methyl bromide (Bromomethane)	IL
Methyl chloride (Chloromethane)	IL
Methyl methacrylate	IL
Methyl tert-butyl ether (MTBE)	IL
Methylene chloride (Dichloromethane)	IL
m-Xylene	IL
Naphthalene	IL
n-Butyl alcohol (1-Butanol, n-Butanol)	IL
n-Butylbenzene	IL
n-Propanol (1-Propanol)	IL
n-Propylbenzene	IL
o-Xylene	IL
Propionitrile (Ethyl cyanide)	IL
p-Xylene	IL
sec-Butylbenzene	IL
Styrene	IL
tert-Butylbenzene	IL
Tetrachloroethylene (Perchloroethylene)	IL
Toluene	IL
trans-1,2-Dichloroethylene	IL
trans-1,3-Dichloropropylene	IL
trans-1,4-Dichloro-2-butene	IL
Trichloroethene (Trichloroethylene)	IL
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	IL
Vinyl acetate	IL
Vinyl chloride	IL
Xylene (total)	IL

Method EPA 8270D

1,2,4,5-Tetrachlorobenzene	IL
1,2,4-Trichlorobenzene	IL
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Dinitrobenzene	IL
1,2-Diphenylhydrazine	IL
1,3-Dichlorobenzene	IL
1,4-Dichlorobenzene	IL
1,4-Dinitrobenzene	IL
1-Methylnaphthalene	IL
1-Naphthylamine	IL
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	IL
2,3,4,6-Tetrachlorophenol	IL
2,4,5-Trichlorophenol	IL
2,4,5-Trimethylaniline	IL
2,4,6-Trichlorophenol	IL
2,4-Dichlorophenol	IL

Field of Testing /Matrix: RCRA (Non Potable Water)

2,4-Dimethylphenol	IL
2,4-Dinitrophenol	IL
2,4-Dinitrotoluene (2,4-DNT)	IL
2,6-Dinitrotoluene (2,6-DNT)	IL
2-Acetylaminofluorene	IL
2-Chloronaphthalene	IL
2-Chlorophenol	IL
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	IL
2-Methylaniline (o-Toluidine)	IL
2-Methylnaphthalene	IL
2-Methylphenol (o-Cresol)	IL
2-Naphthylamine	IL
2-Nitroaniline	IL
2-Nitrophenol	IL
3,3'-Dichlorobenzidine	IL
3-Methylphenol (m-Cresol)	IL
3-Nitroaniline	IL
4-Aminobiphenyl	IL
4-Bromophenyl phenyl ether	IL
4-Chloro-3-methylphenol	IL
4-Chloroaniline	IL
4-Chlorophenyl phenylether	IL
4-Methylphenol (p-Cresol)	IL
4-Nitroaniline	IL
4-Nitrophenol	IL
5-Nitro-o-toluidine	IL
7,12-Dimethylbenz(a) anthracene	IL
Acenaphthene	IL
Acenaphthylene	IL
Acetophenone	IL
Aniline	IL
Anthracene	IL
Benzidine	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL
Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL
Benzoic acid	IL
Benzyl alcohol	IL
bis(2-Chloroethoxy)methane	IL
bis(2-Chloroethyl) ether	IL
bis(2-Ethylhexyl) phthalate (DEHP)	IL
Butyl benzyl phthalate	IL
Carbazole	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Dibenzo(a,e) pyrene	IL
Dibenzofuran	IL
Diethyl phthalate	IL
Dimethyl phthalate	IL
Di-n-butyl phthalate	IL

Field of Testing /Matrix: RCRA (Non Potable Water)

Di-n-octyl phthalate	IL
Diphenylamine	IL
Fluoranthene	IL
Fluorene	IL
Hexachlorobenzene	IL
Hexachlorobutadiene	IL
Hexachlorocyclopentadiene	IL
Hexachloroethane	IL
Hexachloropropene	IL
Indeno(1,2,3-cd) pyrene	IL
Isophorone	IL
Methylpyrilene	IL
Naphthalene	IL
Nitrobenzene	IL
n-Nitrosodiethylamine	IL
n-Nitrosodimethylamine	IL
n-Nitroso-di-n-butylamine	IL
n-Nitrosodi-n-propylamine	IL
n-Nitrosodiphenylamine	IL
n-Nitrosopiperidine	IL
n-Nitrosopyrrolidine	IL
Pentachlorobenzene	IL
Pentachlorophenol	IL
Phenacetin	IL
Phenanthrene	IL
Phenol	IL
Phorate	IL
Pyrene	IL
Pyridine	IL

Method EPA 8270D SIM

1-Methylnaphthalene	IL
2-Methylnaphthalene	IL
Acenaphthene	IL
Acenaphthylene	IL
Anthracene	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL
Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Fluoranthene	IL
Fluorene	IL
Indeno(1,2,3-cd) pyrene	IL
Naphthalene	IL
Phenanthrene	IL
Pyrene	IL

Method EPA 8270E

1,2,4,5-Tetrachlorobenzene	IL
1,2,4-Trichlorobenzene	IL

Field of Testing /Matrix: RCRA (Non Potable Water)

1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Dinitrobenzene	IL
1,2-Diphenylhydrazine	IL
1,3-Dichlorobenzene	IL
1,4-Dichlorobenzene	IL
1,4-Dinitrobenzene	IL
1-Methylnaphthalene	IL
1-Naphthylamine	IL
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	IL
2,3,4,6-Tetrachlorophenol	IL
2,4,5-Trichlorophenol	IL
2,4,5-Trimethylaniline	IL
2,4,6-Trichlorophenol	IL
2,4-Dichlorophenol	IL
2,4-Dimethylphenol	IL
2,4-Dinitrophenol	IL
2,4-Dinitrotoluene (2,4-DNT)	IL
2,6-Dinitrotoluene (2,6-DNT)	IL
2-Acetylaminofluorene	IL
2-Chloronaphthalene	IL
2-Chlorophenol	IL
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	IL
2-Methylaniline (o-Toluidine)	IL
2-Methylnaphthalene	IL
2-Methylphenol (o-Cresol)	IL
2-Naphthylamine	IL
2-Nitroaniline	IL
2-Nitrophenol	IL
3,3'-Dichlorobenzidine	IL
3-Methylphenol (m-Cresol)	IL
3-Nitroaniline	IL
4-Aminobiphenyl	IL
4-Bromophenyl phenyl ether	IL
4-Chloro-3-methylphenol	IL
4-Chloroaniline	IL
4-Chlorophenyl phenylether	IL
4-Methylphenol (p-Cresol)	IL
4-Nitroaniline	IL
4-Nitrophenol	IL
5-Nitro-o-toluidine	IL
7,12-Dimethylbenz(a) anthracene	IL
Acenaphthene	IL
Acenaphthylene	IL
Acetophenone	IL
Aniline	IL
Anthracene	IL
Benzidine	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL
Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL

Field of Testing /Matrix: RCRA (Non Potable Water)

Benzoic acid	IL
Benzyl alcohol	IL
bis(2-Chloroethoxy)methane	IL
bis(2-Chloroethyl) ether	IL
bis(2-Ethylhexyl) phthalate (DEHP)	IL
Butyl benzyl phthalate	IL
Carbazole	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Dibenzo(a,e) pyrene	IL
Dibenzofuran	IL
Diethyl phthalate	IL
Dimethyl phthalate	IL
Di-n-butyl phthalate	IL
Di-n-octyl phthalate	IL
Diphenylamine	IL
Fluoranthene	IL
Fluorene	IL
Hexachlorobenzene	IL
Hexachlorobutadiene	IL
Hexachlorocyclopentadiene	IL
Hexachloroethane	IL
Hexachloropropene	IL
Indeno(1,2,3-cd) pyrene	IL
Isophorone	IL
Methapyrilene	IL
Methylpyrilene	IL
Naphthalene	IL
Nitrobenzene	IL
n-Nitrosodiethylamine	IL
n-Nitrosodimethylamine	IL
n-Nitroso-di-n-butylamine	IL
n-Nitrosodi-n-propylamine	IL
n-Nitrosodiphenylamine	IL
n-Nitrosopiperidine	IL
n-Nitrosopyrrolidine	IL
Pentachlorobenzene	IL
Pentachlorophenol	IL
Phenacetin	IL
Phenanthrene	IL
Phenol	IL
Phorate	IL
Pyrene	IL
Pyridine	IL

Method EPA 8270E SIM

1-Methylnaphthalene	IL
2-Methylnaphthalene	IL
Acenaphthene	IL
Acenaphthylene	IL
Anthracene	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL

Field of Testing /Matrix: RCRA (Non Potable Water)

Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Fluoranthene	IL
Fluorene	IL
Indeno(1,2,3-cd) pyrene	IL
Naphthalene	IL
Phenanthrene	IL
Pyrene	IL

Method EPA 8318A

Aldicarb (Temik)	IL
Carbofuran (Furaden)	IL

Method EPA 8321B

2,4,5-T	IL
2,4,5-T Butoxyethanol ester	IL
2,4,5-T Butyl ester	IL
2,4-D	IL
2,4-DB	IL
Aldicarb (Temik)	IL
Carbofuran (Furaden)	IL
Dalapon	IL
Dicamba	IL
Dichloroprop (Dichlorprop)	IL
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	IL
MCPA	IL
MCPP	IL
Silvex (2,4,5-TP)	IL

Method EPA 8330B

1,3,5-Trinitrobenzene (1,3,5-TNB)	IL
1,3-Dinitrobenzene (1,3-DNB)	IL
2,4,6-Trinitrotoluene (2,4,6-TNT)	IL
2,4-Dinitrotoluene (2,4-DNT)	IL
2,6-Dinitrotoluene (2,6-DNT)	IL
2-Amino-4,6-dinitrotoluene (2-am-dnt)	IL
2-Nitrotoluene	IL
3,5-Dinitroaniline	IL
3-Nitrotoluene	IL
4-Amino-2,6-dinitrotoluene (4-am-dnt)	IL
4-Nitrotoluene	IL
Methyl-2,4,6-trinitrophenylnitramine (tetryl)	IL
Nitrobenzene	IL
Nitroglycerin	IL
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	IL
Pentaerythritoltetranitrate	IL
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	IL

Method EPA 9014 Rev: 0

Cyanide	IL
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Method EPA 9034 Rev: 0

Sulfide	IL
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Field of Testing /Matrix: RCRA (Non Potable Water)**Method EPA 9040C**

pH IL

Method EPA 9045D

pH IL

Method EPA 9056A

Bromide IL

Chloride IL

Fluoride IL

Nitrate IL

Nitrite IL

Sulfate IL

Method EPA 9060A

Total organic carbon IL

Method EPA 9065 Rev: 0

Total phenolics IL

Method EPA 9095B

Paint Filter Test IL

Method SM 4500-NH3 C-2011

Ammonia as N IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)**Method EPA 1010A**

Ignitability IL

Method EPA 1311 Rev: 0

Toxicity Characteristic Leaching Procedure (TCLP) IL

Method EPA 1312 Rev: 0

Synthetic Precipitation Leaching Procedure (SPLP) IL

Method EPA 5050 Rev: 0

Bomb Preparation Method for Solid Waste IL

Method EPA 6010D

Aluminum IL

Antimony IL

Arsenic IL

Barium IL

Beryllium IL

Boron IL

Cadmium IL

Calcium IL

Chromium IL

Cobalt IL

Copper IL

Iron IL

Lead IL

Magnesium IL

Manganese IL

Molybdenum IL

Nickel IL

Potassium IL

Selenium IL

Silver IL

Sodium IL

Strontium IL

Thallium IL

Tin IL

Titanium IL

Vanadium IL

Zinc IL

Method EPA 6020B

Aluminum IL

Antimony IL

Arsenic IL

Barium IL

Beryllium IL

Boron IL

Cadmium IL

Calcium IL

Chromium IL

Cobalt IL

Copper IL

Iron IL

Lead IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

Magnesium	IL
Manganese	IL
Molybdenum	IL
Nickel	IL
Potassium	IL
Selenium	IL
Silver	IL
Sodium	IL
Thallium	IL
Tin	IL
Titanium	IL
Vanadium	IL
Zinc	IL
Method EPA 7196A Rev: 1	
Chromium VI	IL
Method EPA 7471B	
Mercury	IL
Method EPA 8015B Rev: 2	
Ethylene glycol	IL
Method EPA 8015D	
Diesel range organics (DRO)	IL
Ethanol	IL
Gasoline range organics (GRO)	IL
Isopropyl alcohol (2-Propanol, Isopropanol)	IL
Methanol	IL
n-Propanol (1-Propanol)	IL
tert-Butyl alcohol	IL
Method EPA 8081B Rev: 2	
4,4'-DDD	IL
4,4'-DDE	IL
4,4'-DDT	IL
Alachlor	IL
Aldrin	IL
alpha-BHC (alpha-Hexachlorocyclohexane)	IL
alpha-Chlordane, cis-Chlordane	IL
Atrazine	IL
beta-BHC (beta-Hexachlorocyclohexane)	IL
Chlordane (tech.)(N.O.S.)	IL
delta-BHC	IL
Dieldrin	IL
Endosulfan I	IL
Endosulfan II	IL
Endosulfan sulfate	IL
Endrin	IL
Endrin aldehyde	IL
Endrin ketone	IL
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	IL
gamma-Chlordane	IL
Heptachlor	IL
Heptachlor epoxide	IL
Methoxychlor	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

Toxaphene (Chlorinated camphene) IL

Method EPA 8082A

Aroclor-1016 (PCB-1016) IL

Aroclor-1221 (PCB-1221) IL

Aroclor-1232 (PCB-1232) IL

Aroclor-1242 (PCB-1242) IL

Aroclor-1248 (PCB-1248) IL

Aroclor-1254 (PCB-1254) IL

Aroclor-1260 (PCB-1260) IL

Method EPA 8260B

1,1,1,2-Tetrachloroethane IL

1,1,1-Trichloroethane IL

1,1,2,2-Tetrachloroethane IL

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) IL

1,1,2-Trichloroethane IL

1,1-Dichloroethane IL

1,1-Dichloroethylene IL

1,1-Dichloropropene IL

1,2,3-Trichlorobenzene IL

1,2,3-Trichloropropane IL

1,2,4-Trichlorobenzene IL

1,2,4-Trimethylbenzene IL

1,2-Dibromo-3-chloropropane (DBCP) IL

1,2-Dibromoethane (EDB, Ethylene dibromide) IL

1,2-Dichlorobenzene (o-Dichlorobenzene) IL

1,2-Dichloroethane (Ethylene dichloride) IL

1,2-Dichloropropane IL

1,3,5-Trichlorobenzene IL

1,3,5-Trimethylbenzene IL

1,3-Dichlorobenzene IL

1,3-Dichloropropane IL

1,4-Dichlorobenzene IL

1,4-Dioxane (1,4- Diethyleneoxide) IL

2,2-Dichloropropane IL

2-Chloroethyl vinyl ether IL

2-Chlorotoluene IL

2-Hexanone IL

4-Chlorotoluene IL

4-Isopropyltoluene (p-Cymene,p-Isopropyltoluene) IL

4-Methyl-2-pentanone (MIBK) IL

Acetone IL

Acetonitrile IL

Acrolein (Propenal) IL

Acrylonitrile IL

Allyl chloride (3-Chloropropene) IL

Benzene IL

Bromobenzene IL

Bromochloromethane IL

Bromodichloromethane IL

Bromoform IL

Carbon disulfide IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

Carbon tetrachloride	IL
Chlorobenzene	IL
Chlorodibromomethane	IL
Chloroethane (Ethyl chloride)	IL
Chloroform	IL
Chloroprene (2-Chloro-1,3-butadiene)	IL
cis-1,2-Dichloroethylene	IL
cis-1,3-Dichloropropene	IL
Dibromofluoromethane	IL
Dibromomethane (Methylene bromide)	IL
Dichlorodifluoromethane (Freon-12)	IL
Diethyl ether	IL
Ethyl acetate	IL
Ethylbenzene	IL
Hexachlorobutadiene	IL
Isobutyl alcohol (2-Methyl-1-propanol)	IL
Isopropyl alcohol (2-Propanol, Isopropanol)	IL
Isopropylbenzene	IL
m+p-xylene	IL
Methacrylonitrile	IL
Methyl bromide (Bromomethane)	IL
Methyl chloride (Chloromethane)	IL
Methyl methacrylate	IL
Methyl tert-butyl ether (MTBE)	IL
Methylene chloride (Dichloromethane)	IL
m-Xylene	IL
Naphthalene	IL
n-Butyl alcohol (1-Butanol, n-Butanol)	IL
n-Butylbenzene	IL
n-Propanol (1-Propanol)	IL
n-Propylbenzene	IL
o-Xylene	IL
Propionitrile (Ethyl cyanide)	IL
p-Xylene	IL
sec-Butylbenzene	IL
Styrene	IL
tert-Butylbenzene	IL
Tetrachloroethylene (Perchloroethylene)	IL
Tetrahydrofuran (THF)	IL
Toluene	IL
trans-1,2-Dichloroethylene	IL
trans-1,3-Dichloropropylene	IL
trans-1,4-Dichloro-2-butene	IL
Trichloroethene (Trichloroethylene)	IL
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	IL
Vinyl acetate	IL
Vinyl chloride	IL
Xylene (total)	IL

Method EPA 8260D

1,1,1,2-Tetrachloroethane	IL
1,1,1-Trichloroethane	IL
1,1,2,2-Tetrachloroethane	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

1,1,2-Trichloroethane	IL
1,1-Dichloroethane	IL
1,1-Dichloroethylene	IL
1,1-Dichloropropene	IL
1,2,3-Trichlorobenzene	IL
1,2,3-Trichloropropane	IL
1,2,4-Trichlorobenzene	IL
1,2,4-Trimethylbenzene	IL
1,2-Dibromo-3-chloropropane (DBCP)	IL
1,2-Dibromoethane (EDB, Ethylene dibromide)	IL
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Dichloroethane (Ethylene dichloride)	IL
1,2-Dichloropropane	IL
1,3,5-Trimethylbenzene	IL
1,3-Dichlorobenzene	IL
1,3-Dichloropropane	IL
1,4-Dichlorobenzene	IL
1,4-Dioxane (1,4- Diethyleneoxide)	IL
2,2-Dichloropropane	IL
2-Chloroethyl vinyl ether	IL
2-Chlorotoluene	IL
2-Hexanone	IL
4-Chlorotoluene	IL
4-Isopropyltoluene (p-Cymene,p-Isopropyltoluene)	IL
4-Methyl-2-pentanone (MIBK)	IL
Acetone	IL
Acetonitrile	IL
Acrolein (Propenal)	IL
Acrylonitrile	IL
Allyl chloride (3-Chloropropene)	IL
Benzene	IL
Bromobenzene	IL
Bromochloromethane	IL
Bromodichloromethane	IL
Bromoform	IL
Carbon disulfide	IL
Carbon tetrachloride	IL
Chlorobenzene	IL
Chlorodibromomethane	IL
Chloroethane (Ethyl chloride)	IL
Chloroform	IL
Chloroprene (2-Chloro-1,3-butadiene)	IL
cis-1,2-Dichloroethylene	IL
cis-1,3-Dichloropropene	IL
cis-1,4-Dichloro-2-butene	IL
Dibromomethane (Methylene bromide)	IL
Dichlorodifluoromethane (Freon-12)	IL
Diethyl ether	IL
Ethyl acetate	IL
Ethylbenzene	IL
Hexachlorobutadiene	IL
Isobutyl alcohol (2-Methyl-1-propanol)	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

Isopropyl alcohol (2-Propanol, Isopropanol)	IL
Isopropylbenzene	IL
m+p-xylene	IL
Methacrylonitrile	IL
Methyl bromide (Bromomethane)	IL
Methyl chloride (Chloromethane)	IL
Methyl methacrylate	IL
Methyl tert-butyl ether (MTBE)	IL
Methylene chloride (Dichloromethane)	IL
m-Xylene	IL
Naphthalene	IL
n-Butyl alcohol (1-Butanol, n-Butanol)	IL
n-Butylbenzene	IL
n-Propanol (1-Propanol)	IL
n-Propylbenzene	IL
o-Xylene	IL
Propionitrile (Ethyl cyanide)	IL
p-Xylene	IL
sec-Butylbenzene	IL
Styrene	IL
tert-Butylbenzene	IL
Tetrachloroethylene (Perchloroethylene)	IL
Toluene	IL
trans-1,2-Dichloroethylene	IL
trans-1,3-Dichloropropylene	IL
trans-1,4-Dichloro-2-butene	IL
Trichloroethene (Trichloroethylene)	IL
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	IL
Vinyl acetate	IL
Vinyl chloride	IL
Xylene (total)	IL

Method EPA 8270D

1,2,4,5-Tetrachlorobenzene	IL
1,2,4-Trichlorobenzene	IL
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Dinitrobenzene	IL
1,2-Diphenylhydrazine	IL
1,3-Dichlorobenzene	IL
1,4-Dichlorobenzene	IL
1,4-Dinitrobenzene	IL
1-Methylnaphthalene	IL
1-Naphthylamine	IL
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	IL
2,3,4,6-Tetrachlorophenol	IL
2,4,5-Trichlorophenol	IL
2,4,5-Trimethylaniline	IL
2,4,6-Trichlorophenol	IL
2,4-Dichlorophenol	IL
2,4-Dimethylphenol	IL
2,4-Dinitrophenol	IL
2,4-Dinitrotoluene (2,4-DNT)	IL
2,6-Dinitrotoluene (2,6-DNT)	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

2-Acetylaminofluorene	IL
2-Chloronaphthalene	IL
2-Chlorophenol	IL
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	IL
2-Methylaniline (o-Toluidine)	IL
2-Methylnaphthalene	IL
2-Methylphenol (o-Cresol)	IL
2-Naphthylamine	IL
2-Nitroaniline	IL
2-Nitrophenol	IL
3,3'-Dichlorobenzidine	IL
3-Methylphenol (m-Cresol)	IL
3-Nitroaniline	IL
4-Aminobiphenyl	IL
4-Bromophenyl phenyl ether	IL
4-Chloro-3-methylphenol	IL
4-Chloroaniline	IL
4-Chlorophenyl phenylether	IL
4-Methylphenol (p-Cresol)	IL
4-Nitroaniline	IL
4-Nitrophenol	IL
5-Nitro-o-toluidine	IL
7,12-Dimethylbenz(a) anthracene	IL
Acenaphthene	IL
Acenaphthylene	IL
Acetophenone	IL
Aniline	IL
Anthracene	IL
Benzidine	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL
Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL
Benzoic acid	IL
Benzyl alcohol	IL
bis(2-Chloroethoxy)methane	IL
bis(2-Chloroethyl) ether	IL
bis(2-Ethylhexyl) phthalate (DEHP)	IL
Butyl benzyl phthalate	IL
Carbazole	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Dibenzo(a,e) pyrene	IL
Dibenzofuran	IL
Diethyl phthalate	IL
Dimethyl phthalate	IL
Di-n-butyl phthalate	IL
Di-n-octyl phthalate	IL
Diphenylamine	IL
Fluoranthene	IL
Fluorene	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

Hexachlorobenzene	IL
Hexachlorobutadiene	IL
Hexachlorocyclopentadiene	IL
Hexachloroethane	IL
Hexachloropropene	IL
Indeno(1,2,3-cd) pyrene	IL
Isophorone	IL
Methapyrilene	IL
Methylpyrilene	IL
Naphthalene	IL
Nitrobenzene	IL
n-Nitrosodiethylamine	IL
n-Nitrosodimethylamine	IL
n-Nitroso-di-n-butylamine	IL
n-Nitrosodi-n-propylamine	IL
n-Nitrosodiphenylamine	IL
n-Nitrosopiperidine	IL
n-Nitrosopyrrolidine	IL
Pentachlorobenzene	IL
Pentachlorophenol	IL
Phenacetin	IL
Phenanthrene	IL
Phenol	IL
Phorate	IL
Pyrene	IL
Pyridine	IL

Method EPA 8270D SIM

1-Methylnaphthalene	IL
2-Methylnaphthalene	IL
Acenaphthene	IL
Acenaphthylene	IL
Anthracene	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL
Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Fluoranthene	IL
Fluorene	IL
Indeno(1,2,3-cd) pyrene	IL
Naphthalene	IL
Phenanthrene	IL
Pyrene	IL

Method EPA 8270E

1,2,4,5-Tetrachlorobenzene	IL
1,2,4-Trichlorobenzene	IL
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Dinitrobenzene	IL
1,2-Diphenylhydrazine	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

1,3-Dichlorobenzene	IL
1,4-Dichlorobenzene	IL
1,4-Dinitrobenzene	IL
1-Methylnaphthalene	IL
1-Naphthylamine	IL
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	IL
2,3,4,6-Tetrachlorophenol	IL
2,4,5-Trichlorophenol	IL
2,4,5-Trimethylaniline	IL
2,4,6-Trichlorophenol	IL
2,4-Dichlorophenol	IL
2,4-Dimethylphenol	IL
2,4-Dinitrophenol	IL
2,4-Dinitrotoluene (2,4-DNT)	IL
2,6-Dinitrotoluene (2,6-DNT)	IL
2-Acetylamino fluorene	IL
2-Chloronaphthalene	IL
2-Chlorophenol	IL
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	IL
2-Methylaniline (o-Toluidine)	IL
2-Methylnaphthalene	IL
2-Methylphenol (o-Cresol)	IL
2-Naphthylamine	IL
2-Nitroaniline	IL
2-Nitrophenol	IL
3,3'-Dichlorobenzidine	IL
3-Methylphenol (m-Cresol)	IL
3-Nitroaniline	IL
4-Aminobiphenyl	IL
4-Bromophenyl phenyl ether	IL
4-Chloro-3-methylphenol	IL
4-Chloroaniline	IL
4-Chlorophenyl phenylether	IL
4-Methylphenol (p-Cresol)	IL
4-Nitroaniline	IL
4-Nitrophenol	IL
5-Nitro-o-toluidine	IL
7,12-Dimethylbenz(a) anthracene	IL
Acenaphthene	IL
Acenaphthylene	IL
Acetophenone	IL
Aniline	IL
Anthracene	IL
Benzidine	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL
Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL
Benzoic acid	IL
Benzyl alcohol	IL
bis(2-Chloroethoxy)methane	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

bis(2-Chloroethyl) ether	IL
bis(2-Ethylhexyl) phthalate (DEHP)	IL
Butyl benzyl phthalate	IL
Carbazole	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Dibenzo(a,e) pyrene	IL
Dibenzofuran	IL
Diethyl phthalate	IL
Dimethyl phthalate	IL
Di-n-butyl phthalate	IL
Di-n-octyl phthalate	IL
Diphenylamine	IL
Fluoranthene	IL
Fluorene	IL
Hexachlorobenzene	IL
Hexachlorobutadiene	IL
Hexachlorocyclopentadiene	IL
Hexachloroethane	IL
Hexachloropropene	IL
Indeno(1,2,3-cd) pyrene	IL
Isophorone	IL
Methapyrilene	IL
Methylpyrilene	IL
Naphthalene	IL
Nitrobenzene	IL
n-Nitrosodiethylamine	IL
n-Nitrosodimethylamine	IL
n-Nitroso-di-n-butylamine	IL
n-Nitrosodi-n-propylamine	IL
n-Nitrosodiphenylamine	IL
n-Nitrosopiperidine	IL
n-Nitrosopyrrolidine	IL
Pentachlorobenzene	IL
Pentachlorophenol	IL
Phenacetin	IL
Phenanthrene	IL
Phenol	IL
Phorate	IL
Pyrene	IL
Pyridine	IL

Method EPA 8270E SIM

1-Methylnaphthalene	IL
2-Methylnaphthalene	IL
Acenaphthene	IL
Acenaphthylene	IL
Anthracene	IL
Benzo(a)anthracene	IL
Benzo(a)pyrene	IL
Benzo(b)fluoranthene	IL
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

Chrysene	IL
Dibenz(a,h) anthracene	IL
Fluoranthene	IL
Fluorene	IL
Indeno(1,2,3-cd) pyrene	IL
Naphthalene	IL
Phenanthrene	IL
Pyrene	IL

Method EPA 8318A

Aldicarb (Temik)	IL
Carbofuran (Furaden)	IL

Method EPA 8321B

2,4,5-T	IL
2,4,5-T Butoxyethanol ester	IL
2,4,5-T Butyl ester	IL
2,4-D	IL
Aldicarb (Temik)	IL
Carbofuran (Furaden)	IL
Dalapon	IL
Dicamba	IL
Dichloroprop (Dichlorprop)	IL
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	IL
MCPA	IL
MCPP	IL
Silvex (2,4,5-TP)	IL

Method EPA 8330B

1,3,5-Trinitrobenzene (1,3,5-TNB)	IL
1,3-Dinitrobenzene (1,3-DNB)	IL
2,4,6-Trinitrotoluene (2,4,6-TNT)	IL
2,4-Dinitrotoluene (2,4-DNT)	IL
2,6-Dinitrotoluene (2,6-DNT)	IL
2-Amino-4,6-dinitrotoluene (2-am-dnt)	IL
2-Nitrotoluene	IL
3,5-Dinitroaniline	IL
3-Nitrotoluene	IL
4-Amino-2,6-dinitrotoluene (4-am-dnt)	IL
4-Nitrotoluene	IL
Methyl-2,4,6-trinitrophenylnitramine (tetryl)	IL
Nitrobenzene	IL
Nitroglycerin	IL
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	IL
Pentaerythritoltetranitrate	IL
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	IL

Method EPA 9014 Rev: 0

Cyanide	IL
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Method EPA 9034 Rev: 0

Sulfide	IL
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Method EPA 9045D

pH	IL
----	----

Method EPA 9056A

Field of Testing /Matrix: RCRA (Solid & Hazardous Material)

Bromide	IL
Chloride	IL
Fluoride	IL
Nitrate	IL
Nitrite	IL
Orthophosphate as P	IL
Sulfate	IL

Method EPA 9065 Rev: 0

Total phenolics	IL
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Method EPA 9095B

Paint Filter Test	IL
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Field of Testing /Matrix: SDWA (Potable Water)**Method EPA 180.1 Rev: 2**

Turbidity IL

Method EPA 200.7 Rev: 4.4

Copper IL

Silver IL

Method EPA 200.8 Rev: 5.4

Aluminum IL

Antimony IL

Barium IL

Beryllium IL

Cadmium IL

Chromium IL

Copper IL

Lead IL

Manganese IL

Molybdenum IL

Nickel IL

Silver IL

Thallium IL

Zinc IL

Method EPA 245.1 Rev: 3

Mercury IL

Method EPA 300.0 Rev: 2.1

Chloride IL

Fluoride IL

Nitrate IL

Nitrite IL

Sulfate IL

Method SM 4500-Cl G Rev: 22nd ED

Total residual chlorine IL

Method SM 4500-CN⁻ E Rev: 22nd ED

Cyanide IL

Method SM 4500-H⁺ B Rev: 22nd ED

pH IL

End of Scope of Accreditation



Environmental Design
International inc.

Chicago & Baltimore

33 W. Monroe St., Suite 1825
Chicago, IL 60603-5326

phone: 312-345-1400

fax: 312-345-0529

web: envdesigni.com

November 22, 2024

Ms. Grace Czyszczoń
Delta Engineering Group, LLC
111 West Jackson Boulevard
Suite 910
Chicago, Illinois 60621

**Subject: Soil Disposal Package
Project Area 15
2834-2915 East 102nd Street
Chicago, Illinois 60617**

Dear Ms. Czyszczoń:

Environmental Design International inc. (EDI) is pleased to submit this Soil Disposal Package to Delta Engineering Group, LLC (Delta) in support of the Chicago Department of Transportation (CDOT) WPA Residential Streets project. The package addresses soil excavation activities that are planned for Project Area 15, which includes portions of East 102nd Street in Chicago, Cook County, Illinois (Project Area). The Project Area is currently an asphalt roadway, approximately 570 feet in length, that extends east from a dead end (2898 East 102nd Street) at the western limit to the west edge of the intersection of East 102nd Street and South Commercial Avenue (2915 East 102nd Street).

Project Background

EDI completed a Preliminary Environmental Site Assessment (PESA) for the Project Area issued on June 29, 2024. The PESA evaluation of the Project Area identified a total of 13 sites, including the Project Area, that were assessed by evaluating environmental database listings, historical sources, and other records. The findings of the PESA evaluation were documented in the PESA Report, dated November 4, 2024, that was issued following a review by Huff & Huff (H&H), an environmental contractor that performs environmental functions on behalf of CDOT.

The PESA Report, dated October 14, 2024, determined the following:

- No RECs or PIPs were identified for the project area or any of the twelve (12) adjacent sites or the one (1) adjoining site.
- No *de minimus* conditions were identified for the Project Area. Seven (7) of the adjacent sites had reported *de minimus* conditions (potential ACM and LBP, pole-mounted transformers, solid waste).

Based on the PESA findings, EDI initially recommended that no additional site investigation activities be performed for the purpose of determining if the soils from the Project Area meet the requirements for disposal as Clean Construction and Demolition Debris (CCDD) material. However, the client stated that their experience is that local Clean Construction and Demolition Debris (CCDD) facilities will not accept soils with Illinois Environmental Protection Agency (IEPA) LPC-662 documentation and associated analysis for materials sourced from City of Chicago rights-of-way (ROWs). As such, EDI modified the original recommendation to propose that more comprehensive sampling and analysis be performed for the Project Area.

EDI completed a Preliminary Site Investigation (PSI) at the Project Area in accordance with the CDOT/H&H approved PSI Scope of Work (SOW), dated November 4, 2024. Field activities for the PSI were completed on November 5, 2024, during which soil samples were collected for chemical analysis. The resulting information from the completed PSI was used to develop this Soil Disposal package

PSI Sample Methodology

Based on the following two (2) factors, EDI collected soil characterization samples from the Project Area:

- Using the CDOT guidance of collecting one sample per 200 feet of roadway, EDI located three (3) soil borings along the length of the Project Area. The specific boring locations are presented below:
 - **The proposed soil boring closest to the west extent of the Project Area (the dead end) will be designated as EDI-PESA15-001.**
 - **The second soil boring will be located roughly midway between South Escanaba Avenue and the alley west of South Exchange Avenue and will be designated as EDI-PESA15-002.**
 - **The proposed soil boring closest to the east extent of the Project Area (the intersection of East 102nd Street and South Commercial Avenue) will be designated as EDI-PESA15-003.**

The approximate boring locations are presented in **Attachment 1** of this Soil Disposal package document. Copies of the Boring logs are included as **Attachment 2**.

- Based on the bottom elevations for the existing and proposed roadways from the construction drawings provided by Delta on behalf of CDOT, EDI proposed that soil borings EDI-PESA15-001, EDI-PESA15-002, and EDI-PESA15-003 be advanced to a maximum depth of five feet below ground surface (ft. bgs). EDI oversaw the installation of that soil boring on November 5, 2024.

- The recovered material was visually inspected for obvious signs of contamination to determine an appropriate sample location. The recovered material was also screened using a Photoionization Detector (PID) to identify portions of the material that may contain elevated levels of VOCs that would indicate impact from petroleum-based compounds.
- One (1) sample will be collected from the material recovered from each 5-foot interval. The collected soil samples were designated as EDI-PESA15-001, EDI-PESA15-002 and EDI-PESA14-003, respectively. The collected soil samples were placed into clean, laboratory supplied containers.
- EDI transported the collected samples under typical Chain of Custody procedures to Sterling Laboratories of Des Plaines, IL (Sterling Labs), an IEPA Environmental Laboratory Accreditation Program (IL ELAP) certified laboratory. All three (3) samples were analyzed for semi-volatile organic compounds (SVOCs)/poly nuclear aromatic compounds (PNAs), Resource Conservation and Recovery Act (RCRA) 8 metals, and pH. EDI also requested that sample EDI-PESA15-001 be analyzed for Toxicity Characteristic Leaching Procedure (TCLP) RCRA 8 metals, and the Code R waste characterization suite of analytes. EDI requested that analytical results be provided within rush laboratory analysis of 2 to 3 business days following sample drop off.

Data Evaluation

Upon receipt of the laboratory data, EDI reviewed the analytical results. The laboratory data were evaluated against the respective CCDD Maximum Allowable Concentration (MAC) values and TACO Tier 1 Residential Soil Remediation Objectives as applicable. The data summary table used to evaluate the analytical results is included as **Attachment 3** of this Soil Disposal package document.

This evaluation revealed the following:

- No VOC compounds in sample EDI-PESA15-001 exceeded their applicable MAC limit.
- No SVOC/PNA compounds in any of the three (3) collected samples exceeded their applicable MAC values for City of Chicago, Metropolitan Statistical Areas (MSA) counties (excluding Chicago), and Non-Metropolitan Areas
 - The PNA (Benzo(a)pyrene) was detected in soil sample EDI-PESA15-001 above the MAC value for non-populated areas.
- No polychlorinated biphenyls (PCBs) in sample EDI-PESA15-001 exceeded their applicable MAC limit.
- No RCRA 8 Metals in any of the collected samples had total concentrations that exceeded their applicable MAC limit.
- No Code R analytes disqualified the soil from the Project Area from CCDD disposal based on the following:
 - Ignitability – passed.
 - Reactive Cyanide - passed.

- Reactive Sulfide- passed.
- Total Recoverable Phenolics - passed.
- Free liquids - passed.
- Sample EDI-PESA15-001 was reported to have a pH value of 7.98 pH units, sample EDI-PESA15-002 has a pH value of 8.3, and EDI-PESA15-003 has a pH value of 8.49.

Based on the information presented above, EDI concluded that soil recovered from the East 102nd Street Project Area qualified for disposal at a CCDD facility within the City of Chicago, MSA counties, and Non-Metropolitan Areas only.

Disposal Volume Determination

Delta provided EDI with a set of construction drawings to use in the preparation of the PESA evaluation of the Project Area. These drawings were used with Google Maps to determine that the Project Area comprised an area of approximately 15,990.0 square feet (sf).

In conjunction with an anticipated maximum excavation depth of 5 feet, a conversion factor of 27 cubic feet per cubic yard (cy), and a swell factor of 1.25 excavated cy versus in place cy, the expected disposal volume was determined to be **3,710 cy** (rounded). **The excavated soil could be taken to a City of Chicago or MSA county CCDD facility.**

A summary table presenting the soil volume calculations is presented as **Attachment 4** of this Soil Disposal package document.

Information from the data evaluation, the soil volume determination, Google Maps, and other CDOT data were used to complete the required IEPA LPC-663 form for the disposal of CCDD qualified material. A copy of the form is included as **Attachment 5** of this Soil Disposal package document. It should be noted that since this is a draft package, the form is sealed, but not signed.

Package Contents

EDI has prepared and included the following:

- A figure showing the Soil Boring/Soil Sample locations.
- The Boring Logs for EDI-PESA15-001 through EDI-PESA15-003.
- A Data Summary Table presenting the sample results compared to MAC limits.
- A Data Table showing the calculated Soil Disposal Volume.
- A completed IEPA LPC-663 Form.
- A partial copy of the Soil Analytical Report. Note the report contained data from a second Project Area that was sampled on the same date. The pages containing those data have been removed to avoid confusion. This partial copy of the Analytical Report is included as **Attachment 6** of this Soil Disposal package document.

Closing

We hope this Soil Disposal package meets with your approval. If you have any questions, please contact Garth Daley (708-203-8672) or Nicole Butkus (715-559-9252) for any assistance. Thank you.

Respectfully,

Environmental Design International inc.



Nicole J. Butkus
Assistant Project Manager



Garth A. Daley, P.E.
Senior Environmental Engineer

Enclosed

- Attachment 1 – Soil Boring/Soil Sample Location Figure
- Attachment 2 – Boring Logs
- Attachment 3 – Data Summary Table – Sample Results
- Attachment 4 – Data Summary Table – Soil Volume Determination
- Attachment 5 – Completed LPC-663 Form
- Attachment 6 – Analytical Report – Partial Copy



*Environmental Design
International inc.*

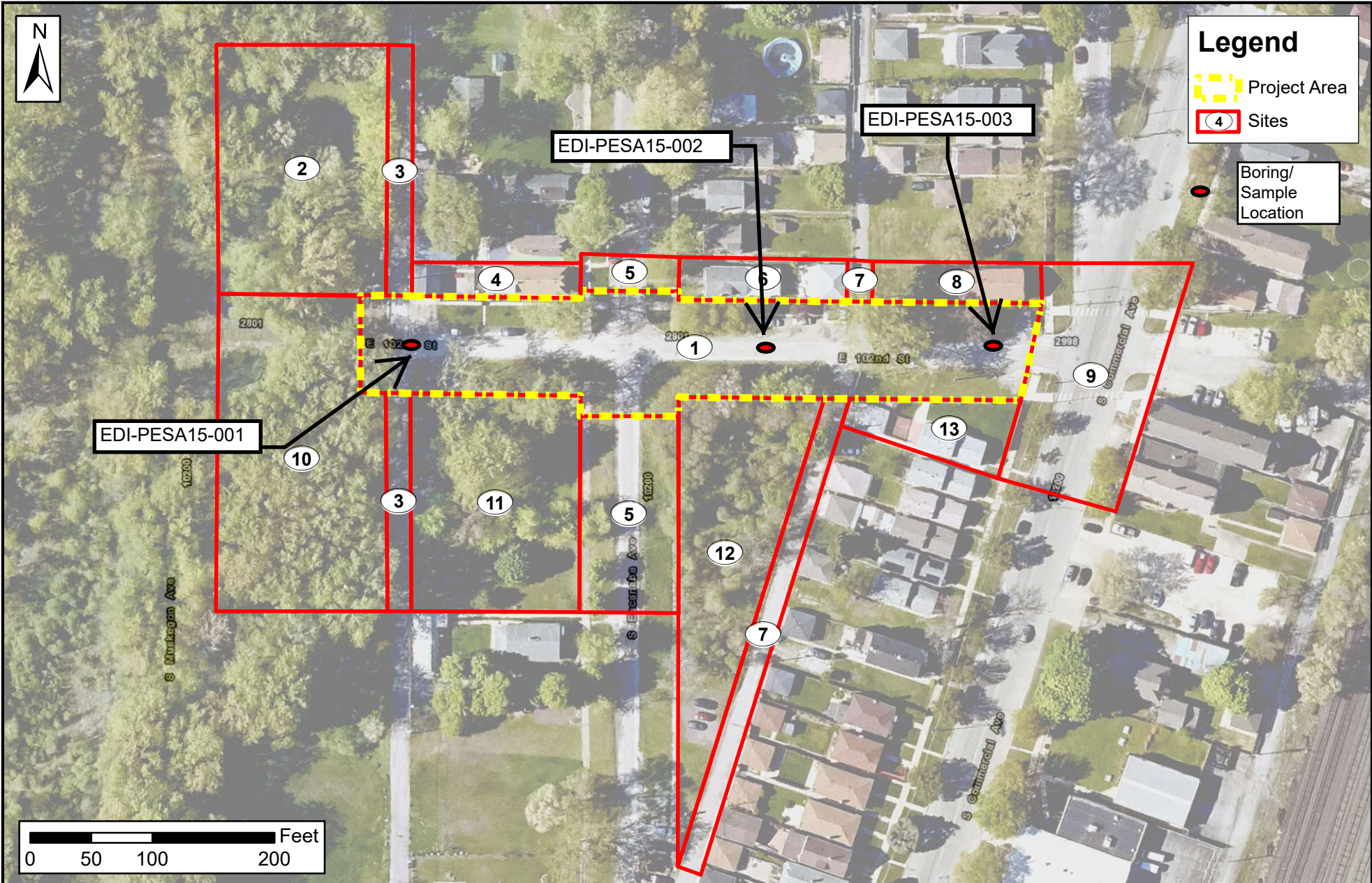
Chicago & Baltimore

Ms. Grace Czystczon
Delta Engineering Group, LLC
Soil Disposal Package for Project Area 15
2834-2915 East 102nd Street, Chicago, IL 60617
November 22, 2024

ATTACHMENT 1

SOIL BORING/SOIL SAMPLE LOCATION FIGURE

DRAFT



EDI
Environmental Design International inc.
 33 W. MONROE STREET, SUITE 1825,
 CHICAGO, IL 60603
 Ph. (312) 345-1400 Fax (312) 345-0529

PREPARED FOR:



CDOT
 Chicago Department
 of Transportation

Figure 1
 Soil Boring/Sample Location Figure
 Preliminary Environmental Site Assessment

2834-2915 East 102nd Street, Chicago, IL 60617

PROJECT NO: 1827.006
DATE: 9/24/2024
DRAWN BY: JR
APPROVED BY: GD



*Environmental Design
International inc.*

Chicago & Baltimore

Ms. Grace Czystczon
Delta Engineering Group, LLC
Soil Disposal Package for Project Area 15
2834-2915 East 102nd Street, Chicago, IL 60617
November 22, 2024

ATTACHMENT 2

BORING LOGS – EDI-PESA15-001 THROUGH EDI-PESA15-003

DRAFT



Environmental Design International inc.
 33 West Monroe St., Suite 1825
 Chicago, IL, 60603
 Telephone: 312-345-1400

BORING NUMBER EDI-PESA15-001

CLIENT Delta/CDOT IGS SITE NAME _____
 EDI PROJECT NUMBER 1827.006 SITE LOCATION Chicago, Cook County, IL
 DATE STARTED 11/5/24 LOGGED BY J. Reinhofer SITE NAME PESA 15 - East 102nd Street
 DRILLING CONTRACTOR Earth Solutions GROUND WATER LEVELS:
 DRILLING METHOD Geoprobe AT TIME OF DRILLING ---
 LATITUDE 1837891.63 LONGITUDE 1196938.45 AT END OF DRILLING ---
 COMPLETION DEPTH 5 ft AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0								ASPHALT
0.5								FILL - dark grey, sand, with gravel, medium dense, moist
1					PID = 0 ppm			
2								
2.5				3 to 4-foot soil sample collected for PNAs, RCRA metals, pH, Code R, and TCLP metals.				FILL - tan, fine sand, dense, moist
3	GP	80			PID = 0 ppm			
4								
5					PID = 0 ppm			

EDI IDOT SOIL BORING NO WELL - GINT STD U.S.GDT - 11/11/24 15:01 - S:\BENTLEY\GINT\GINTCL\PROJECTS\1827.006_DELTA CDOT WPA ST IMPROVEMENTS.GPJ

The stratification lines represent approximate boundaries.
 The transition may be gradual.

Bottom of borehole at 5.0 feet.



Environmental Design International inc.
33 West Monroe St., Suite 1825
Chicago, IL, 60603

Environmental Design International inc.

Telephone: 312-345-1400

BORING NUMBER EDI-PESA15-002

PAGE 1 OF 1

CLIENT <u>Delta/CDOT</u>	ISGS SITE NAME _____
EDI PROJECT NUMBER <u>1827.006</u>	SITE LOCATION <u>Chicago, Cook County, IL</u>
DATE STARTED <u>11/5/24</u> LOGGED BY <u>J. Reinhofer</u>	SITE NAME <u>PESA 15 - East 102nd Street</u>
DRILLING CONTRACTOR <u>Earth Solutions</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Geoprobe</u>	AT TIME OF DRILLING <u>---</u>
LATITUDE <u>1837908.49</u> LONGITUDE <u>1197249.3</u>	AT END OF DRILLING <u>---</u>
COMPLETION DEPTH <u>5 ft</u>	AFTER DRILLING <u>---</u>

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0								ASPHALT
0.3								CONCRETE
0.5								FILL - dark grey, gravel and sand, medium dense, moist
1					PID = 0 ppm			
2								
3	GP	70		3 to 4-foot soil sample collected for PNAs, RCRA metals, and pH.	PID = 0 ppm			
3.5								FILL - tan, fine sand, medium dense, moist
4								
5					PID = 0 ppm			

The stratification lines represent approximate boundaries.
The transition may be gradual.

Bottom of borehole at 5.0 feet.



Environmental Design International inc.
 33 West Monroe St., Suite 1825
 Chicago, IL, 60603
 Telephone: 312-345-1400

BORING NUMBER EDI-PESA15-003

CLIENT Delta/CDOT ISGS SITE NAME _____
 EDI PROJECT NUMBER 1827.006 SITE LOCATION Chicago, Cook County, IL
 DATE STARTED 11/5/24 LOGGED BY J. Reinhofer SITE NAME PESA 15 - East 102nd Street
 DRILLING CONTRACTOR Earth Solutions GROUND WATER LEVELS:
 DRILLING METHOD Geoprobe AT TIME OF DRILLING ---
 LATITUDE 1837907.66 LONGITUDE 1197452.76 AT END OF DRILLING ---
 COMPLETION DEPTH 5 ft AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	SAMPLE NUMBER	REMARKS	ENVIRONMENTAL DATA	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0								ASPHALT
							0.3	CONCRETE
							0.5	FILL - dark greyish brown, sand, with gravel, medium dense, moist
1					PID = 0 ppm			
2								
	GP	50		3 to 4-foot soil sample collected for PNAs, RCRA metals, and pH.			2.5	FILL - tan, fine sand, dense, moist
3					PID = 0 ppm			
4								
5					PID = 0 ppm		5.0	

The stratification lines represent approximate boundaries.
 The transition may be gradual.

Bottom of borehole at 5.0 feet.

ATTACHMENT 3
DATA SUMMARY TABLE – SAMPLE RESULTS

DRAFT

Soil Analytical Results - PESA 15
2834-2915 East 102nd Street
Chicago, Illinois 60617

Sample Date: November 5, 2024:

Laboratory ID :		O24K0295-05	O24K0295-06	O24K0295-07
Customer Sample ID :		EDI-PESA15-001	EDI-PESA15-002	EDI-PESA15-003
Date Collected :		11/05/2024	11/05/2024	11/05/2024
Analyte		Maximum Allowable Concentration		
Acenaphthene		570	<0.0318	<0.0162
Acetone		25		
Aldrin		0.94		
Anthracene		12,000	0.0557	<0.0243
Arsenic	within a MSA county	13.0	2.13	2.46
	within a non-MSA county	11.3	2.13	2.46
Barium		1,500	7.55	13.1
Benzene		0.03		
Benz(a)anthracene	within Chicago corporate limits	1.1	0.188	0.0246
	within a populated area in MSA excluding Chicago	1.8	0.188	0.0246
	within a populated area in non-MSA county or outside populated area	0.9	0.188	0.0246
Benzo(b)fluoranthene	within Chicago corporate limits	1.5	0.218	0.0392
	within a populated area in MSA excluding Chicago	2.1	0.218	0.0392
	within a populated area in non-MSA county or outside populated area	0.9	0.218	0.0392
Benzo(k)fluoranthene		9	0.0864	<0.0324
Benzoic acid		400		
Benzo(a)pyrene	within Chicago corporate limits	1.3	0.184	<0.0649
	within a populated area in MSA excluding Chicago	2.1	0.184	<0.0649
	within a populated area in non-MSA county	0.98	0.184	<0.0649
	outside populated area	0.09	0.184	<0.0649
Bis(2-chloroethyl)ether		0.66		
Bis(2-ethylhexyl)phthalate		46		
Bromodichloromethane		0.6		
Butyl benzyl phthalate		930		
Cadmium		5.2	<0.228	<0.230
Carbazole		0.6		
Carbon disulfide		9		
Carbon tetrachloride		0.07		
Chlordane		1.8		
4-Chloroaniline		0.7		
Chlorobenzene		1		
Dibromochloromethane		0.4		
Chloroform		0.3		
2-Chlorophenol		1.5		
Chromium		21	2.69	4.66
Chrysene		88	0.187	0.0278
2,4-D		1.5		
Dalapon		0.85		
4,4'-DDD		3		
4,4'-DDE		2		

Soil Analytical Results - PESA 15
2834-2915 East 102nd Street
Chicago, Illinois 60617

Sample Date: November 5, 2024:

Laboratory ID :		O24K0295-05	O24K0295-06	O24K0295-07
Customer Sample ID :		EDI-PESA15-001	EDI-PESA15-002	EDI-PESA15-003
Date Collected :		11/05/2024	11/05/2024	11/05/2024
Analyte		Maximum Allowable Concentration		
4,4'-DDT		2		
Dibenz(a,h)anthracene	within Chicago corporate limits	0.20	<0.0477	<0.0243
	within a populated area in MSA excluding Chicago	0.42	<0.0477	<0.0243
	within a populated area in non-MSA county	0.15	<0.0477	<0.0243
	outside populated area	0.09	<0.0477	<0.0243
Di-n-butyl phthalate		2,300		
1,2-Dichlorobenzene		17		
1,4-Dichlorobenzene		2		
3,3'-Dichlorobenzidine		1.3		
1,1-Dichloroethane		23		
1,2-Dichloroethane		0.02		
1,1-Dichloroethene		0.06		
cis-1,2-Dichloroethene		0.4		
trans-1,2-Dichloroethene		0.7		
2,4-Dichlorophenol		0.48		
1,2-Dichloropropane		0.03		
cis-1,3-Dichloropropene		0.005		
trans-1,3-Dichloropropene		0.005		
Dieldrin		0.603		
Diethyl phthalate		470		
2,4-Dimethylphenol		9		
2,4-Dinitrophenol		3.3		
2,4-Dinitrotoluene		0.25		
2,6-Dinitrotoluene		0.26		
Dinoseb		0.25		
Di-n-octyl phthalate		1,600		
Endosulfan I		18		
Endosulfan II		18		
Endrin		1		
Ethylbenzene		13		
Fluoranthene		3,100	0.366	0.0487
Fluorene		560	<0.0318	<0.0162
Heptachlor		0.871		
Heptachlor epoxide		1.005		
Hexachlorobenzene		0.4		
alpha-BHC		0.0074		
gamma-BHC		0.009		
Hexachlorocyclopentadiene		1.1		
Hexachloroethane		0.5		
Indeno(1,2,3-cd)pyrene	within a populated area in MSA excluding Chicago	1.6	0.104	0.0243
	within Chicago corporate limits or a populated area in non-MSA county or outside a populated area	0.9	0.104	0.0243
Isophorone		8		
Lead		107	2.61	14.3
Lead, TCLP*		0.0075		2.73

Soil Analytical Results - PESA 15
2834-2915 East 102nd Street
Chicago, Illinois 60617

Sample Date: November 5, 2024:

Laboratory ID :		O24K0295-05	O24K0295-06	O24K0295-07	
Customer Sample ID :		EDI-PESA15-001	EDI-PESA15-002	EDI-PESA15-003	
Date Collected :		11/05/2024	11/05/2024	11/05/2024	
Analyte		Maximum Allowable Concentration			
Mercury	elemental (analyzed as total mercury)	0.1	<0.0511	<0.0473	<0.0467
	ionic (analyzed as total mercury)	0.89	<0.0511	<0.0473	<0.0467
Methoxychlor		160			
Bromomethane		0.2			
Methyl tert-butyl ether		0.32			
Methylene chloride		0.02			
2-Methylphenol		15			
Naphthalene		1.8	<0.0477	<0.0243	<0.0238
Nitrobenzene		0.26			
N-Nitrosodiphenylamine		1			
N-Nitrosodi-n-propylamine		0.0018			
Pentachlorophenol		0.02			
Phenol		100			
Aroclor 1016		1	<0.0209		
Aroclor 1221		1	<0.0626		
Aroclor 1232		1	<0.0835		
Aroclor 1242		1	<0.0313		
Aroclor 1248		1	<0.0313		
Aroclor 1254		1	<0.0209		
Aroclor 1260		1	<0.0313		
Pyrene		2,300	0.331	0.05	0.0354
Selenium		1.3	<0.456	<0.460	<0.445
Silver		4.4	<0.456	<0.460	<0.445
Styrene		4			
Tetrachloroethene		0.06			
Toluene		12			
Toxaphene		0.6			
2,4,5-TP (Silvex)		11			
1,2,4-Trichlorobenzene		5			
1,1,1-Trichloroethane		2	7		
1,1,2-Trichloroethane		0.02			
Trichloroethene		0.06			
2,4,5-Trichlorophenol		26			
2,4,6-Trichlorophenol		0.66			
Vinyl chloride		0.01			
Xylenes, Total		5.6			
pH		6.25 - 9.0	7.98	8.3	8.49

Key:

= exceedence of a Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill Material at Regulated Fill Operations (MAC) standard.

TCLP - Toxicity Characteristic Leaching Procedure

* = Value is the TACO Class I Soil Component of the Groundwater Ingestion Exposure Route (secondary standard).

ATTACHMENT 4
DATA SUMMARY TABLE – SOIL DISPOSAL VOLUME

DRAFT

Table 2

Created for:
Grace Czystochon, Delta

Soil Disposal Volumes - PESA 15
2834-2915 East 102nd Street
Chicago, Illinois 60617

Sample Date: November 5, 2024

Soil Boring	Sample Collection Interval (feet bgs)	Termination Depth (feet bgs)	Affected Area (ft ²)	Affected Volume (yd ³)	Estimated Disposal Volume (yd ³)	Exceedence	CCDD Status
EDI-PESA15-001	0-5	5	5100	944.4	1180.56	None	Yes
EDI-PESA15-002	0-5	5	5445	1008.3	1260.42	None	Yes
EDI-PESA15-003	0-5	5	5445	1008.3	1260.42	None	Yes

TOTAL (CCDD)			15990.0	2961.1	3710.00		
TOTAL (LANDFILL)			N/A	N/A	N/A		
TOTAL (SITE - FT²)			15990.00	N/A	N/A		
TOTAL (SITE - ACRE)			0.37	N/A	N/A		

Key:

bgs = below ground surface.

ft = feet.

ft² = square feet

yd³ = cubic yard

Notes

1. Affected Areas was determined using the area measurement tool in Google Maps, then rounding up to the next 50 square feet.
2. Affected Volume in cubic feet was calculated by multiplying the Affected Area by the termination depth then dividing by 27.
3. Estimated Disposal Volume was calculated by multiplying the Affected Volume by a swell factor of 1.25 then rounding up to the next 10 cubic yard.



*Environmental Design
International inc.*

Chicago & Baltimore

Ms. Grace Czystczon
Delta Engineering Group, LLC
Soil Disposal Package for Project Area 15
2834-2915 East 102nd Street, Chicago, IL 60617
November 22, 2024

ATTACHMENT 5

COMPLETED IEPA LPC-663 FORM

DRAFT



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification

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

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

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

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

I. Source Location Information

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

Project Name: CDOT WPA Street Improvement PO # 114542 Office Phone Number, if available: N/A

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

2834-2915 East 102nd Street (PESA 15)

City: Chicago State: IL Zip Code: 60617

County: Cook Township: Hyde Park

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

Latitude: 41.71004 Longitude: -87.55332

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Google Maps

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

Approximate Start Date (mm/dd/yyyy): Dec 2, 2024 Approximate End Date (mm/dd/yyyy): Feb 28, 2025

Estimated Volume of debris (cu. Yd.): 3,710

II. Owner/Operator Information for Source Site

Site Owner

Name: Chicago Department of Transportation (CDOT)

Street Address: 2 North LaSalle Street, Suite 820

PO Box: _____

City: Chicago State: IL

Zip Code: 60602-3702 Phone: 312-744-8092

Contact: Jaqulen Samuel

Email, if available: jaqulen.samuel@cityofchicago.org

Site Operator

Name: Chicago Department of Transportation (CDOT)

Street Address: 2 North LaSalle Street, Suite 820

PO Box: _____

City: Chicago State: IL

Zip Code: 60602-3702 Phone: 312-744-8092

Contact: Jaqulen Samuel

Email, if available: jaqulen.samuel@cityofchicago.org

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

Uncontaminated Soil Certification**III. Basis for Certification and Attachments**

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

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

Three sample locations were selected roughly equidistant along the 570 foot stretch of pavement. The soil borings were installed to a depth of 5 feet. The collected samples were based on visual appearance and PID readings. An estimated 3710 cubic yards (cy) of soil will be excavated, so the sample is adequate based on a typical sampling ratio of 1 sample per 5000 cy.

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

A review of the sample results showed that all results were compliance with IEPA CCDD MAC standards (except non-populated areas) based on total or Toxicity Characteristic Leaching Procedure (TCLP) results. The reported pH for the sample were between 7.98 and 8.49 pH units.

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

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

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

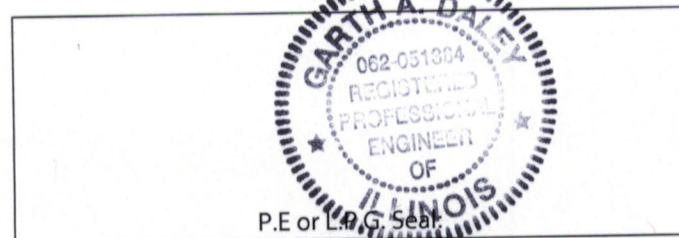
Company Name: Environmental Design International
 Street Address: 33 West Monroe Street, Suite 1825
 City: Chicago State: IL Zip Code: 60303-5326
 Phone: 312-645-1400

Garth A. Daley
 Printed Name:

 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Nov 22, 2024

Date:

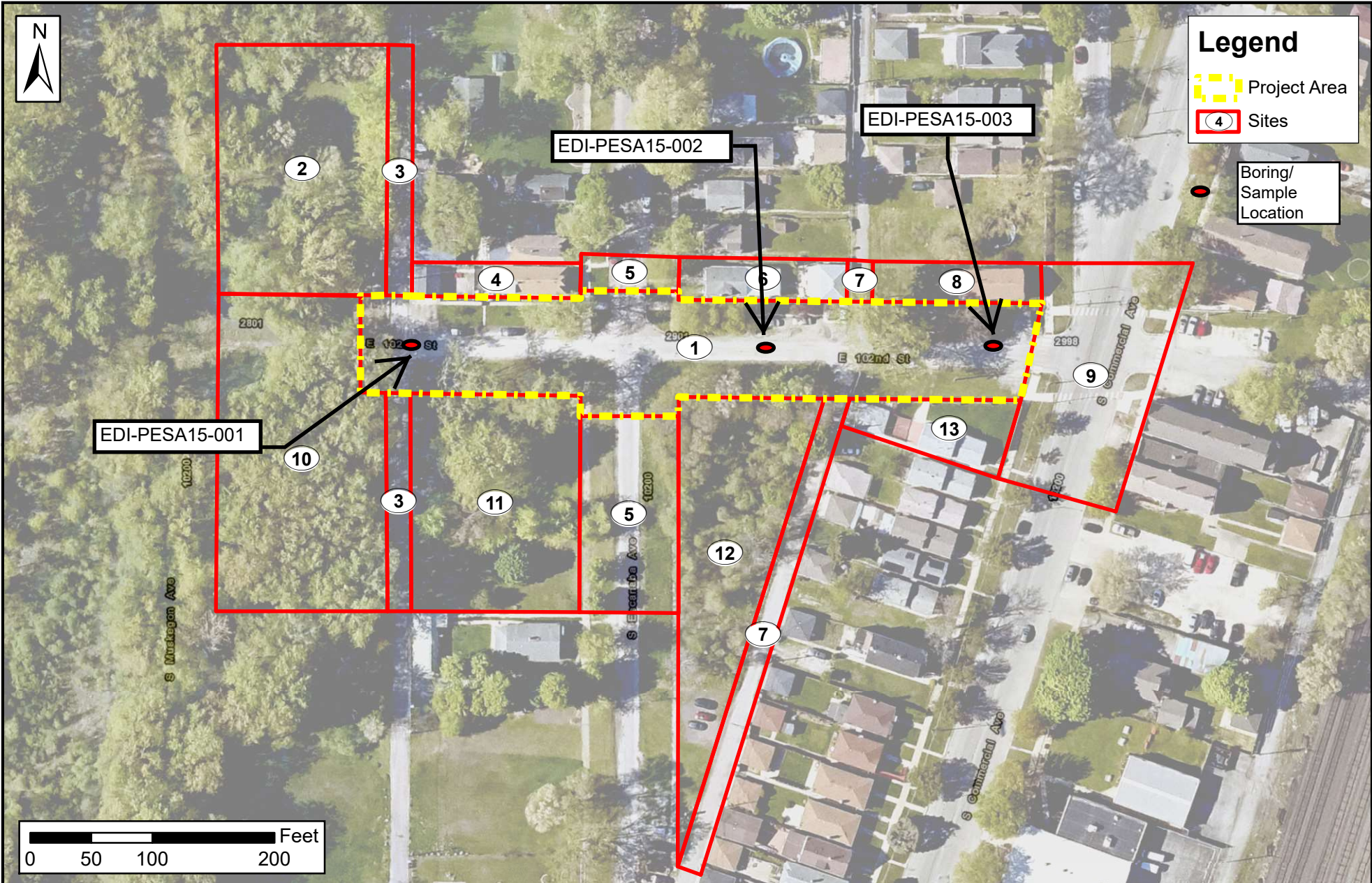




Ms. Grace Czystczon
Delta Engineering Group, LLC
Soil Disposal Package for Project Area 15
2834-2915 East 102nd Street, Chicago, IL 60617
November 22, 2024

ATTACHMENT 6
ANALYTICAL REPORT – PARTIAL COPY

DRAFT



EDI
Environmental Design International inc.
 33 W. MONROE STREET, SUITE 1825,
 CHICAGO, IL 60603
 Ph. (312) 345-1400 Fax (312) 345-0529

PREPARED FOR:



CDOT
 Chicago Department
 of Transportation

Figure 1
 Soil Boring/Sample Location Figure
 Preliminary Environmental Site Assessment

2834-2915 East 102nd Street, Chicago, IL 60617

PROJECT NO: 1827.006

DATE: 9/24/2024

DRAWN BY: JR

APPROVED BY: GD



Ms. Grace Czystochon
Delta Engineering Group, LLC
Soil Disposal Package for Project Area 15
2834-2915 East 102nd Street, Chicago, IL 60617
November 22, 2024

ATTACHMENT 6
ANALYTICAL REPORT – PARTIAL COPY

DRAFT



sterling labs

- O'Hare Location

509 N. 3rd Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 www.thesterlinglab.com

November 13, 2024

Environmental Design International, Inc.
33 West Monroe Street Suite 1825
Chicago, IL 60603

Telephone: (312) 345-0461
Fax: (312) 345-0529

Analytical Report for Work Order: O24K0295 Revision 0

RE: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 102nd St

Dear Environmental Design International, Inc.:

Sterling Labs has received 7 samples for the referenced project on November 5, 2024 15:03. The analytical results are presented in the following report.

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

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

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

Sincerely,

Justice Kwateng
Project Manager

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



Customer: Environmental Design International, Inc.

Work Order Sample Summary

Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E
102nd St

WorkOrder: O24K0295

Laboratory ID	Sample ID	Tag Number	Collection Date	Date Received
O24K0295-01	EDI-PESA16-001		11/05/24 11:45	11/05/24 15:03
O24K0295-02	EDI-PESA16-002		11/05/24 12:52	11/05/24 15:03
O24K0295-03	EDI-PESA16-003		11/05/24 13:03	11/05/24 15:03
O24K0295-04	EDI-PESA16-004		11/05/24 13:27	11/05/24 15:03
O24K0295-05	EDI-PESA15-001		11/05/24 15:40	11/05/24 15:03
O24K0295-06	EDI-PESA15-002		11/05/24 15:55	11/05/24 15:03
O24K0295-07	EDI-PESA15-003		11/05/24 16:06	11/05/24 15:03



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc.
Work Order: O24K0295
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 10

Client Sample ID: EDI-PESA15-001
Collection Date: 11/05/2024 15:40
Matrix: Soil

Lab ID: O24K0295-05

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
Volatile Organic Compounds by GC/MS			SW1311 / SW8260B / SW5030		Prep Date:	11/08/24 10:37	Analyst: TC1	
ILEPA 100256								
1,1-Dichloroethene TCLP	ND	0.0500		mg/L	1	11/08/2024	B24K0438	S24K0260
1,2-Dichloroethane TCLP	ND	0.0500		mg/L	1	11/08/2024	B24K0438	S24K0260
1,4-Dichlorobenzene TCLP	ND	0.250		mg/L	1	11/08/2024	B24K0438	S24K0260
2-Butanone TCLP	ND	0.700		mg/L	1	11/08/2024	B24K0438	S24K0260
Benzene TCLP	ND	0.0500		mg/L	1	11/08/2024	B24K0438	S24K0260
Carbon tetrachloride TCLP	ND	0.500		mg/L	1	11/08/2024	B24K0438	S24K0260
Chlorobenzene TCLP	ND	0.100		mg/L	1	11/08/2024	B24K0438	S24K0260
Chloroform TCLP	ND	0.100		mg/L	1	11/08/2024	B24K0438	S24K0260
Tetrachloroethene TCLP	ND	0.100		mg/L	1	11/08/2024	B24K0438	S24K0260
Trichloroethene TCLP	ND	0.0500		mg/L	1	11/08/2024	B24K0438	S24K0260
Vinyl chloride TCLP	ND	0.100		mg/L	1	11/08/2024	B24K0438	S24K0260
Semivolatile Organic Compounds by GC/MS			SW1311 / SW8270D / SW3510		Prep Date:	11/11/24 09:10	Analyst: LP	
ILEPA 100256								
1,4-Dichlorobenzene TCLP	ND	0.0198		mg/L	1	11/11/2024	B24K0434	S24K0336
2,4,5-Trichlorophenol TCLP	ND	0.0099		mg/L	1	11/11/2024	B24K0434	S24K0336
2,4,6-Trichlorophenol TCLP	ND	0.0099		mg/L	1	11/11/2024	B24K0434	S24K0336
2,4-Dinitrotoluene TCLP	ND	0.0198		mg/L	1	11/11/2024	B24K0434	S24K0336
2-Methylphenol TCLP	ND	0.0099		mg/L	1	11/11/2024	B24K0434	S24K0336
3 & 4-Methylphenol TCLP	ND	0.0099		mg/L	1	11/11/2024	B24K0434	S24K0336
Hexachlorobenzene TCLP	ND	0.0099		mg/L	1	11/11/2024	B24K0434	S24K0336
Hexachlorobutadiene TCLP	ND	0.0099		mg/L	1	11/11/2024	B24K0434	S24K0336
Hexachloroethane TCLP	ND	0.0099		mg/L	1	11/11/2024	B24K0434	S24K0336
Nitrobenzene TCLP	ND	0.0059		mg/L	1	11/11/2024	B24K0434	S24K0336
Pentachlorophenol TCLP	ND	0.296		mg/L	1	11/11/2024	B24K0434	S24K0336
Pyridine TCLP	ND	0.0988		mg/L	1	11/11/2024	B24K0434	S24K0336
Semivolatile Organic Compounds by GC/MS			SW8270D / SW3550		Prep Date:	11/08/24 09:00	Analyst: LP	
ILEPA 100256								
Acenaphthene	ND	0.0318		mg/Kg dry	2	11/10/2024	B24K0323	S24K0271
Acenaphthylene	ND	0.0318		mg/Kg dry	2	11/10/2024	B24K0323	S24K0271
Anthracene	0.0557	0.0477		mg/Kg dry	2	11/10/2024	B24K0323	S24K0271
Benzo(a)anthracene	0.188	0.0477		mg/Kg dry	2	11/10/2024	B24K0323	S24K0271
Benzo(a)pyrene	0.184	0.127		mg/Kg dry	2	11/10/2024	B24K0323	S24K0271
Benzo(b)fluoranthene	0.218	0.0477		mg/Kg dry	2	11/10/2024	B24K0323	S24K0271
Benzo(g,h,i)perylene	0.101	0.0636		mg/Kg dry	2	11/10/2024	B24K0323	S24K0271
Benzo(k)fluoranthene	0.0864	0.0636		mg/Kg dry	2	11/10/2024	B24K0323	S24K0271
Chrysene	0.187	0.0318		mg/Kg dry	2	11/10/2024	B24K0323	S24K0271
Dibenzo(a,h)anthracene	ND	0.0477		mg/Kg dry	2	11/10/2024	B24K0323	S24K0271
Fluoranthene	0.366	0.0477		mg/Kg dry	2	11/10/2024	B24K0323	S24K0271



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc. Client Sample ID: EDI-PESA15-001
Work Order: O24K0295 Collection Date: 11/05/2024 15:40
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 1C Matrix: Soil
Lab ID: O24K0295-05 (Continued)

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Semivolatile Organic Compounds by GC/MSW8270D / SW3550. Rows include ILEPA 100256, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene.

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Polychlorinated Biphenyls (PCBs) by GC/ESW8082A / SW3546. Rows include ILEPA 100256, Aroclor 1016, Aroclor 1221, Aroclor 1232, Aroclor 1242, Aroclor 1248, Aroclor 1254, Aroclor 1260.

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Metals by ICP-MS SW6020 B / SW3050. Rows include ILEPA 100256, Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver.

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Metals by ICP-MS SW6020B / SW1311 / SW3015. Rows include ILEPA 100256, Arsenic TCLP, Barium TCLP, Cadmium TCLP, Chromium TCLP, Lead TCLP, Selenium TCLP, Silver TCLP.



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc.
Work Order: O24K0295
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 10

Client Sample ID: EDI-PESA15-001
Collection Date: 11/05/2024 15:40
Matrix: Soil

Lab ID: O24K0295-05 (Continued)

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
Mercury by CVAA ILEPA 100256	SW7470A / SW1311					Prep Date: 11/11/24 11:55	Analyst: GS1	
Mercury TCLP	ND	0.00040		mg/L	1	11/11/2024	B24K0453	S24K0287
Mercury by CVAA ILEPA 100256	SW7471B					Prep Date: 11/08/24 11:39	Analyst: GS1	
Mercury	ND	0.0511		mg/Kg dry	1	11/08/2024	B24K0379	S24K0244
Wet Chemistry	ASTM D92-90					Prep Date: 11/07/24 14:59	Analyst: AS8	
Ignitability (open cup)	>180	35.0	*	°F	1	11/07/2024	B24K0334	
Wet Chemistry	SM2540G					Prep Date: 11/06/24 18:50	Analyst: AS8	
Total Solids	93.3	0.100	*	% (Percent)	1	11/07/2024	B24K0269	
Wet Chemistry	SW7.3.3.2/9014 by Discrete					Prep Date: 11/08/24 11:21	Analyst: LN2	
Reactive Cyanide	ND	3.79	*	mg/Kg	1	11/11/2024	B24K0378	S24K0283
Wet Chemistry	SW7.3.4.2					Prep Date: 11/07/24 11:48	Analyst: AN3	
Reactive Sulfide	ND	18.9	*	mg/Kg	2	11/07/2024	B24K0305	
Wet Chemistry ILEPA 100256	SW9045C					Prep Date: 11/07/24 07:52	Analyst: DM2	
pH	7.98			pH Units	1	11/07/2024	B24K0280	
Wet Chemistry ILEPA 100256	SW9065					Prep Date: 11/11/24 09:29	Analyst: LN2	
Phenolics, Total Recoverable	ND	0.106		mg/Kg dry	1	11/11/2024	B24K0435	S24K0281
Wet Chemistry ILEPA 100256	SW9095					Prep Date: 11/08/24 09:22	Analyst: AS8	
Free Liquid	No Liquid			Pass/Fail	1	11/08/2024	B24K0364	



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc.
Work Order: O24K0295
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 10

Client Sample ID: EDI-PESA15-002
Collection Date: 11/05/2024 15:55
Matrix: Soil

Lab ID: O24K0295-06

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
Semivolatile Organic Compounds by GC/MSW8270D / SW3550				Prep Date:	11/08/24 09:00	Analyst: LP		
ILEPA 100256								
Acenaphthene	ND	0.0162		mg/Kg dry	1	11/10/2024	B24K0323	S24K0271
Acenaphthylene	ND	0.0162		mg/Kg dry	1	11/10/2024	B24K0323	S24K0271
Anthracene	ND	0.0243		mg/Kg dry	1	11/10/2024	B24K0323	S24K0271
Benzo(a)anthracene	0.0246	0.0243		mg/Kg dry	1	11/10/2024	B24K0323	S24K0271
Benzo(a)pyrene	ND	0.0649		mg/Kg dry	1	11/10/2024	B24K0323	S24K0271
Benzo(b)fluoranthene	0.0392	0.0243		mg/Kg dry	1	11/10/2024	B24K0323	S24K0271
Benzo(g,h,i)perylene	ND	0.0324		mg/Kg dry	1	11/10/2024	B24K0323	S24K0271
Benzo(k)fluoranthene	ND	0.0324		mg/Kg dry	1	11/10/2024	B24K0323	S24K0271
Chrysene	0.0278	0.0162		mg/Kg dry	1	11/10/2024	B24K0323	S24K0271
Dibenzo(a,h)anthracene	ND	0.0243		mg/Kg dry	1	11/10/2024	B24K0323	S24K0271
Fluoranthene	0.0487	0.0243		mg/Kg dry	1	11/10/2024	B24K0323	S24K0271
Fluorene	ND	0.0162		mg/Kg dry	1	11/10/2024	B24K0323	S24K0271
Indeno(1,2,3-cd)pyrene	0.0243	0.0243		mg/Kg dry	1	11/10/2024	B24K0323	S24K0271
Naphthalene	ND	0.0243		mg/Kg dry	1	11/10/2024	B24K0323	S24K0271
Phenanthrene	ND	0.0243		mg/Kg dry	1	11/10/2024	B24K0323	S24K0271
Pyrene	0.0500	0.0243		mg/Kg dry	1	11/10/2024	B24K0323	S24K0271
Metals by ICP-MS				Prep Date:	11/07/24 11:59	Analyst: MS6		
SW6020 B / SW3050								
ILEPA 100256								
Arsenic	2.46	0.460		mg/Kg dry	10	11/09/2024	B24K0306	S24K0278
Barium	13.1	0.460		mg/Kg dry	10	11/09/2024	B24K0306	S24K0278
Cadmium	ND	0.230		mg/Kg dry	10	11/09/2024	B24K0306	S24K0278
Chromium	4.66	0.460		mg/Kg dry	10	11/09/2024	B24K0306	S24K0278
Lead	14.3	0.230		mg/Kg dry	10	11/09/2024	B24K0306	S24K0278
Selenium	ND	0.460		mg/Kg dry	10	11/09/2024	B24K0306	S24K0278
Silver	ND	0.460		mg/Kg dry	10	11/09/2024	B24K0306	S24K0278
Mercury by CVAA				Prep Date:	11/08/24 11:39	Analyst: GS1		
SW7471B								
ILEPA 100256								
Mercury	ND	0.0473		mg/Kg dry	1	11/08/2024	B24K0379	S24K0244



Date Reported: 11/13/2024

Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc.

Client Sample ID: EDI-PESA15-002

Work Order: O24K0295

Collection Date: 11/05/2024 15:55

Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 10

Matrix: Soil

Lab ID: O24K0295-06 (Continued)

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
Wet Chemistry	SM2540G					Prep Date: 11/07/24 19:01		Analyst: AS8
Total Solids	92.1	0.100	*	% (Percent)	1	11/08/2024	B24K0348	
Wet Chemistry	SW9045C					Prep Date: 11/07/24 07:52		Analyst: DM2
ILEPA 100256								
pH	8.30			pH Units	1	11/07/2024	B24K0280	



Date Reported: 11/13/2024
Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc. Client Sample ID: EDI-PESA15-003
Work Order: O24K0295 Collection Date: 11/05/2024 16:06
Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 10 Matrix: Soil
Lab ID: O24K0295-07

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Semivolatile Organic Compounds by GC/MSW8270D / SW3550. Prep Date: 11/08/24 09:00. Analyst: LP. Lists various compounds like Acenaphthene, Benzo(a)anthracene, etc.

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Metals by ICP-MS SW6020 B / SW3050. Prep Date: 11/07/24 11:59. Analyst: MS6. Lists metals like Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver.

Table with 9 columns: Analyses, Result, RL, Qualifier, Units, DF, Date Analyzed, Batch, AnaBatch. Section: Mercury by CVAA SW7471B. Prep Date: 11/08/24 11:39. Analyst: GS1. Lists Mercury.



Date Reported: 11/13/2024

Date Printed: 11/13/2024

Analytical Results

Customer: Environmental Design International, Inc.

Client Sample ID: EDI-PESA15-003

Work Order: O24K0295

Collection Date: 11/05/2024 16:06

Project: 1827.006, CDOT WPA PSI, 3200-3463 E 109th St, 2834-2915 E 1C

Matrix: Soil

Lab ID: O24K0295-07 (Continued)

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed	Batch	AnaBatch
Wet Chemistry		SM2540G		Prep Date:		11/07/24 19:01	Analyst: AS8	
Total Solids	93.8	0.100	*	% (Percent)	1	11/08/2024	B24K0348	
Wet Chemistry		SW9045C		Prep Date:		11/07/24 07:52	Analyst: DM2	
ILEPA 100256		pH		pH Units		1	11/07/2024	B24K0280
	8.49							

Qualifiers:

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

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



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O24K0295

PM: Justice Kwateng
 Environmental Design International, Inc.

No: 102726

Page: 1 of 1

Company: EDI

Project Number: 1827.006 Client Tracking

Project Name: CDOT WPA PSI

Project Location: 3200-3463 E 109th St, 2834-2915 E 102nd St

Sampler(s): Joe Reinhofer

Report To: Garth Daley Phone: (708) 203-8672

QC Level: 1 2 3 4 Fax:

e-mail: gdaley@envdesigni.com

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	BTEX	VOCS	SVOCs	PNAS	RCRA metals	Pesticides	Herbicides	PH	Code R	TCLP metals	Remarks	Lab No.:
EDI-PESA16-001	11/5/24	11:45	S		X		5	X	X	X	X	X	X	X	X	X	X		01A-E
EDI-PESA16-002		12:52							X	X		X			X				02A-E
EDI-PESA16-003		13:03							X	X		X			X				03A-E
EDI-PESA16-004		13:27							X	X		X			X				04A-E
EDI-PESA15-001		15:40									X	X			X	X	X		05A-E
EDI-PESA15-002		15:55									X	X			X				06A-E
EDI-PESA15-003	↓	16:06	↓				↓				X	X			X				07A-E

Relinquished by: (Signature) Joe Reinhofer Date/Time: 11/5/24 17:03

Received by: (Signature) Garth Daley Date/Time: 11-5-24 15:03

Relinquished by: (Signature) Joe Reinhofer Date/Time: 11/6/24 9:24

Received by: (Signature) Garth Daley Date/Time: 11-6-24 9:26

Relinquished by: (Signature) Garth Daley Date/Time: 11-6-24 10:51

Received by: (Signature) Garth Daley Date/Time: 11-6-24 10:51

Comments: CHI

Preservation Code: A = None B = HNO₃ C = NaOH
 D = H₂SO₄ E = HCl F = 5035/EnCore G = Other

Laboratory Work Order No.: O24K0295

Received on Ice: Yes No

Temperature: 4.7 °C

Sample Receipt Checklist

Work Order: O24K0295

Printed: 11/7/2024 10:47:13AM

Client: Environmental Design International, Inc.
Project: Soil Analysis

Date Due: Monday, November 11, 2024

Received By: Erin Kripke
Logged In By: Lucas Demari

Date Received: 11/5/2024 3:03:00PM
Date Logged In: 11/6/2024 10:59:52AM

Cooler Name: Default Cooler

How were samples received: Courier

Cooler temperature at of below 6 degrees Celsius: Yes

Chain of Custody present and properly completed : Yes

Turnaround Time is indicated and specified: Yes

Chain of Custody agrees with sample labels: Yes

Samples received within hold time: Yes

Proper sample containers received intact: Yes

Sufficient sample volume: Yes

Containers properly preserved: Yes

Custody seals present: No

Volatile water vials received: No

Samples going out of hold time within 24 hours:


Sample Receipt Comments

Work Order: O24K0295

The samples were received on 11/5/2024 3:03:00 PM. The temperature of the cooler(s) at receipt was:

Cooler:	Temp C
Default Cooler	4.7

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

Reviewed By: 

Date: 11/7/24