



Remedial Investigation
Waste Delineation Assessment Report
East End Park – City of Durham, NONCD00000823
Durham, Durham County, North Carolina
Task Orders 823RI-5 and 821RI-9
S&ME Project No. 23050630

PREPARED FOR:

North Carolina Department of Environmental Quality
Division of Waste Management – Inactive Hazardous Sites Branch
Pre-Regulatory Landfill Unit
1646 Mail Service Center
Raleigh, NC 27699-1646

PREPARED BY:

S&ME, Inc.
3201 Spring Forest Road
Raleigh, NC 27616
March 24, 2025



March 24, 2025

North Carolina Department of Environmental Quality
Division of Waste Management – Special Remediation Branch
Pre-Regulatory Landfill Unit
1646 Mail Service Center
Raleigh, NC 27699-1646

Attention: Mr. Kevin Kelt via email: kevin.kelt.deq.nc.gov
Hydrogeologist

Reference: **Remedial Investigation- Waste Delineation Assessment Report
East End Park – City of Durham**
1200 North Alston Avenue, Durham, Durham County, North Carolina
NCDEQ ID No. NONCD0000823
NCDEQ Task Orders 823RI-5 and 821RI-9
S&ME Project No. 23050630

Dear Mr. Kelt:

S&ME, Inc. (S&ME) is submitting this report summarizing the results of the Remedial Investigation Waste Delineation activities conducted at the above-referenced site in Durham, North Carolina. S&ME completed this investigation in general conformance with S&ME Proposals No. 23050630AO, dated August 19, 2024, for Task Order 823RI-5 and No. 23050630AS, dated January 6, 2025, for Task Order 821RI-9 under the terms of Contract Number N42621-B, dated January 6, 2022, between NCDEQ and S&ME.

Please call us at 919-872-2660 with any questions or comments.

Sincerely,

S&ME, Inc.

A handwritten signature in blue ink, appearing to read 'Emily Hermann'.

Emily Hermann
Environmental Staff Geologist
emilyhermann@smeinc.com

A handwritten signature in blue ink, appearing to read 'Gerald Paul'.

Gerald Paul
Senior Project Manager
jpaul@smeinc.com

Senior Reviewed by: Thomas P. Raymond, P.E. - Senior Engineer

Attachment: Remedial Investigation – Waste Delineation Assessment Report



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1.0 Summary of Current Investigation

S&ME completed the following Scope of Services listed below for this investigation in general conformance with S&ME Proposal No. 23050630AO, dated August 19, 2024, for Task Order 823RI-5 and No. 23050630AS, dated January 6, 2025, for Task Order 821RI-9 under the terms of Contract Number N42621-B, dated January 4, 2022, between NCDEQ and S&ME.

- Utility locating;
- Waste Disposal Area (WDA) perimeter delineation;
- WDA Trenching (Test Pits); and,
- Prepared this report.

S&ME's services were performed in general accordance with the North Carolina Department of Environmental Quality (NCDEQ), Inactive Hazardous Sites Program guidance documents: *Guidelines for Addressing Pre-Regulatory Landfills and Dumps* (March 2022 and February 2025) and S&ME's approved *Standard Operating Procedures and Quality Assurance (SOP/QA) Manual*, previously approved by NCDEQ.

2.0 Utility Locating

On October 29, 2024, prior to commencing invasive field activities, S&ME contracted with a private utility locating subcontractor, Utility Locating Carolinas (ULC), to mark underground utilities in the vicinity of the proposed drilling locations. S&ME field personnel flagged the proposed drilling locations and accompanied ULC while underground utilities were being located and marked in these areas. Boring locations were logged in the field with a handheld GPS and coordinates of each location are displayed in **Appendix I**. Several utilities including water lines, overhead electric lines, and sewer lines were identified around the waste area.

3.0 Waste Disposal Area (WDA) Perimeter Delineation

3.1 WDA Soil Boring Installations

The investigation area for the current WDA perimeter delineation includes Durham County Parcel Identification Numbers (PIN) 081384161 and 0831470827.

S&ME's subcontract drill crew, Quantex, installed 92 soil borings (WD-01 to WD-92 and offset borings) between November 7 and November 11, and November 22, 2024.

Quantex's drill crew utilized a track mounted Geoprobe® unit (6620 DT) equipped with Macro-Core soil sampling tooling and hollow stem augers to collect soil/waste samples from the proposed boring locations to a maximum depth of 10 feet below ground surface (bgs). At all locations, soil samples were continuously logged and were classified to identify soil types according to the Unified Soil Classification System (USCS).



Additionally, in areas that could not be accessed by the Geoprobe, S&ME advanced three soil borings using a stainless-steel six-inch electric power auger in February 2025. Borings were advanced to approximately three feet bgs. Boring locations and the adjusted waste boundary are depicted on **Figure 1**. Coordinates for the soil borings can be found in **Appendix I**. Boring logs are included in the field documents in **Appendix II**.

3.2 WDA Soil Boring Results

Waste was generally encountered across the investigation area in the form of incinerator ash, brick, and glass. The waste was described as having the consistency of soil with small fragments of glass and brick. Waste was encountered at depths of just below the surface to approximately 10 feet bgs (soil cover).

In general, noted waste in the area containing recreational courts near the playground was thin in the outer portion of the parking lot towards the creek and North Alston Avenue and got thicker as the waste approaches the center of the area near the playground and tennis courts. At a few borings (WD-40, WD-42, WD-43, WD-60, WD-66, WD-73 and WD-86) the waste extended down to the maximum soil boring depth of 10 feet bgs (between 0 - 10 feet). On the opposite side of North Alston Avenue near the open field and basketball courts, waste was thin in the outer portions of the field near the creek and road, and got thicker as the waste approaches the center of the field. Buried waste was not identified along the southern side of the field near Mallard Avenue. Buried waste within the vicinity of the field (west side of North Alston Avenue that divides the WDA) was consistent in depth (approximately 1 – 6 feet bgs) and thickness (approximately 1 – 5 feet thick) was identified. Approximate depth to waste and thickness on the eastern side of North Alston Avenue within the vicinity of the playground was highly variable and appeared to increase in thickness (6 – 10 feet thick) approaching the center of the area. At two boring locations (WD-42 and WD-60) the waste thickest was identified. Based upon this investigation, the waste appears to extend to the east and ends as it reaches Goose Creek. Buried waste is estimated to occupy approximately 5.4 acres of the current review area. Boring locations and the approximate waste thickness encountered at each boring location are depicted on **Figure 2**. A visual representation (Heat Map) of the approximate waste thickness across the site is shown on **Figure 3**.

3.3 WDA Test Pits

S&ME's subcontractor, Buckeye Elm Contracting, LLC (Buckeye) advanced 9 test pits (TP-1 to TP-9) between January 27 and January 28, 2025, to confirm the previously delineated WDA. Buckeye utilized an excavator to conduct waste delineation test pits to a maximum depth of 5 feet bgs. Soils were continuously logged and classified, identifying soil types according to the USCS and screened with a Photoionization Detector (PID) for Volatile Organic Compounds (VOCs). Test pit locations and the adjusted waste boundary are depicted in **Figure 1**. Coordinates for the test pits can be found in **Appendix I**, and waste descriptions can be found in **Table 2**. Boring logs are included in the field documents in **Appendix II**. A photograph log documenting site activities is included as **Appendix III**.

3.4 WDA Test Pit Results

Waste encountered throughout the property included ash, melted glass, brick, concrete, porcelain, and pottery. Plastic was found on the surface in several locations however this plastic is most likely due to



littering in the area and not from the incinerator activities. Waste was encountered starting at 0.5 ft-bgs and up to a depth of 4.0 ft-bgs.

On the eastern parcel, waste was observed west of the stream from 1 ft-bgs 3 ft-bgs in multiple locations and east of North Alston Avenue from 1 ft-bgs to 4 ft-bgs. On the western parcel, waste was observed south of Goose Creek at a depth of 0.50 ft-bgs to 3 ft-bgs. Results from the test pits suggest waste extends across the road (North Alston Avenue) to the playground area in the eastern parcel. The results also suggest waste on the eastern parcel extends to Goose Creek but does not cross the stream. The test pit results show consistent results to the waste delineation borings conducted in November 2024.

The overall extent of the buried waste extends over the entire portion of the eastern parcel and continues south into the next parcel, and the central portion of the western parcel. Test pit locations and a waste boundary are depicted in **Figure 1**. Waste descriptions and boring logs from the test pits can be found in **Table 1** and **Appendix I**. A photographic log can be found in **Appendix III** and coordinates for the test pits can be found in **Appendix II**.

4.0 Air Monitoring

During the waste delineation assessment S&ME monitored dust particulates that were possibly generated during drilling using an air sampling pump. The air sampling pump was moved throughout the delineation activities to collect representative air samples from around the drilling area. The samples were collected and analyzed for lead at a North Carolina certified laboratory. Work zone lead sample results were not reported at concentrations above the laboratory reporting limits. The laboratory analytical reports is included in **Appendix IV**.

5.0 Investigative Derived Waste

Investigative derived waste (IDW) extracted from the soil boring or test pits was placed back into the ground and covered with soil, bentonite or sod.

6.0 Sole Use Statement

This report is solely intended for use by NCDEQ for the services that were performed in accordance with S&ME Proposals No. 23050630AO, dated August 19, 2024, and No. 23050630AS, dated No. 23050630AS, dated January 6, 2025, for Task Order 821RI-9, as authorized by NCDEQ Task Orders 823RI-5 and 821RI-9.



7.0 Certification Acknowledgement

"I certify that to the best of my knowledge, after thorough investigation, the information contained in or accompanying this certification is true, accurate, and complete."

Gerald Paul/ S&ME, Inc.

Name of Environmental Consultant / Company

Signature of Environmental Consultant

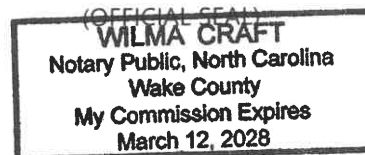
March 24, 2025

Date

I, Wilma Craft, a Notary Public of said County and State, do hereby certify that Gerald Paul did personally appear and sign before me this day, produced proper identification in the form of North Carolina Driver's License, was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this Certification in my presence.

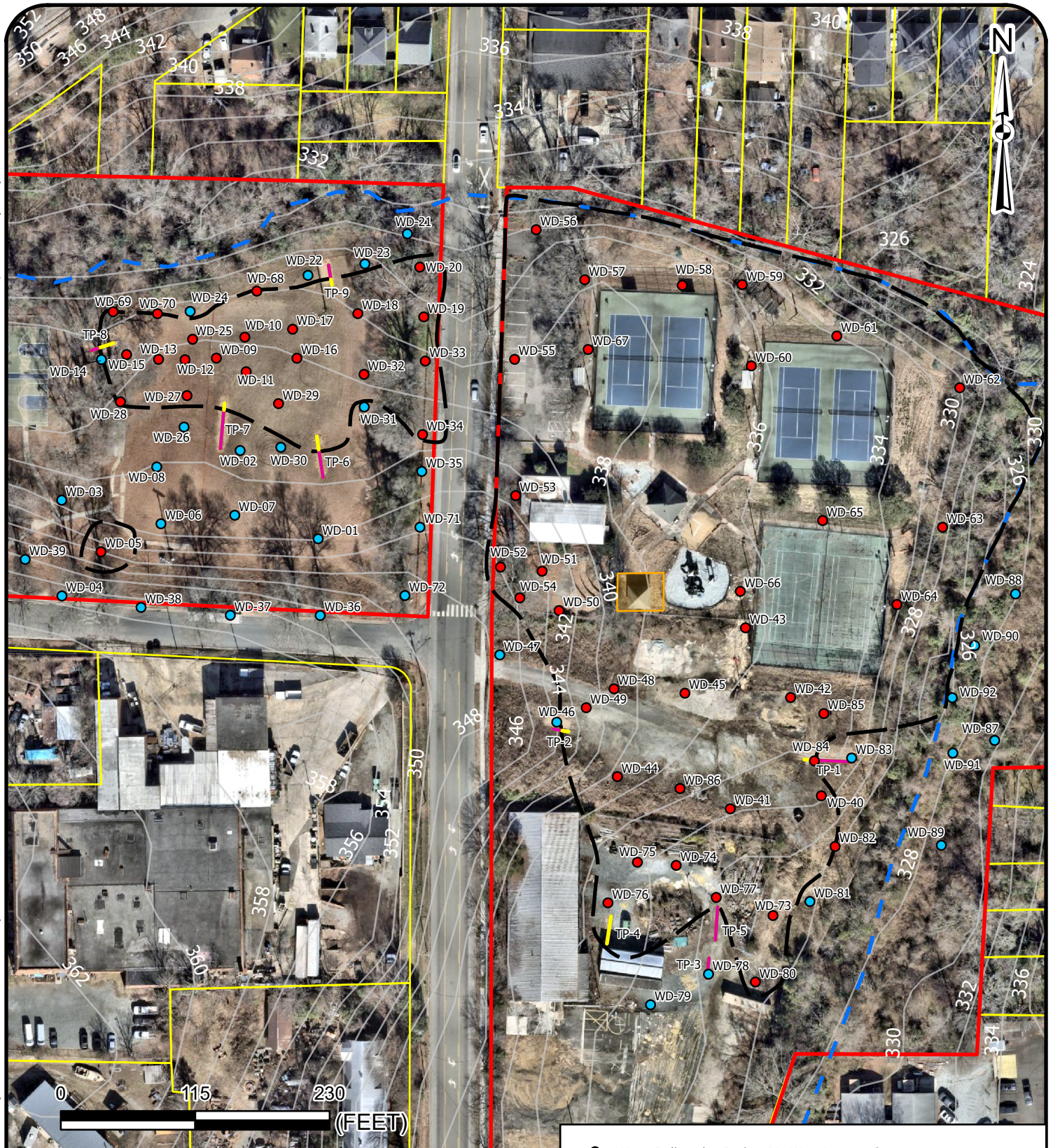
WITNESS my hand and official seal this 24 day of March, 2025.

Notary Public (signature)



My commission expires: March 12, 2028

Figures



NOTES: SOIL BORINGS WERE ADVANCED NOV. 2024, JAN. AND FEB. 2025.

REFERENCE:

GIS BASE LAYERS WERE OBTAINED FROM THE LATEST NCONEMAP ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

- Waste Delineation Boring (No Waste)
- Waste Delineation Boring (Waste)
- Test Pit (Waste)
- Test Pit (No Waste)
- Former Incinerator
- Stream
- Estimated Waste Boundary
- Durham County Parcels
- City of Durham Property
- Topographic Contour



SITE MAP - BORINGS AND TEST PITS

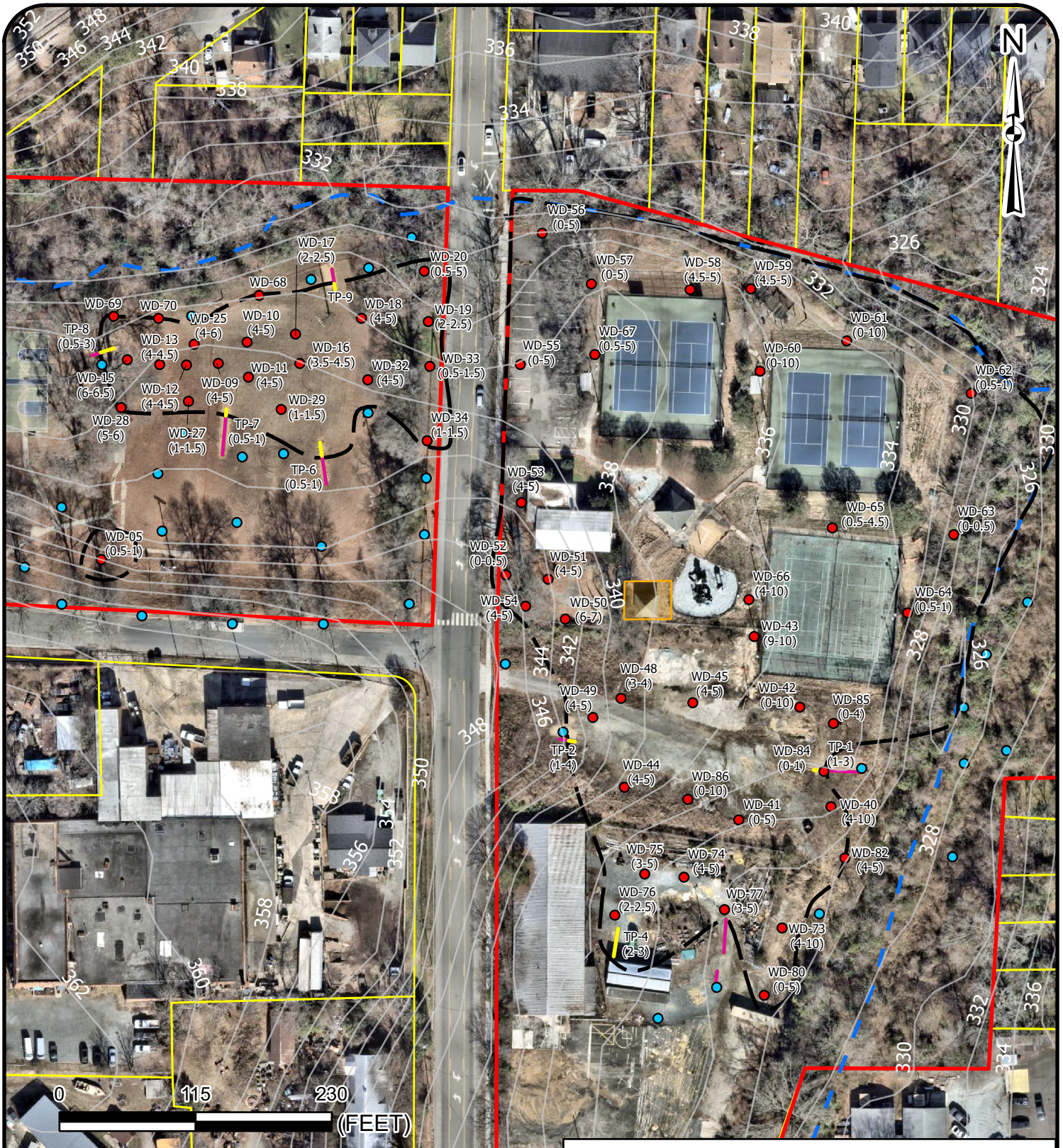
EAST END PARK
NCDEQ ID NO. NONCD0000823, TASK ORDER 823RI-5 & 821RI-9
1200 N. ALSTON AVENUE
DURHAM, NORTH CAROLINA

SCALE:
1 in = 115 ft

DATE:
3/21/2025
PROJECT NUMBER
23050630

FIGURE NO.

1



NOTES: (0-10) = WASTE THICKNESS IN FEET.

REFERENCE:

GIS BASE LAYERS WERE OBTAINED FROM THE LATEST NCONEMAP ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

- Waste Delineation Boring (No Waste)
- Waste Delineation Boring (Waste)
- Test Pit (Waste)
- Test Pit (No Waste)
- Former Incinerator
- Stream
- City of Durham Property
- Durham County Parcels
- Estimated Waste Boundary
- Topographic Contour



WASTE DELINEATION MAP

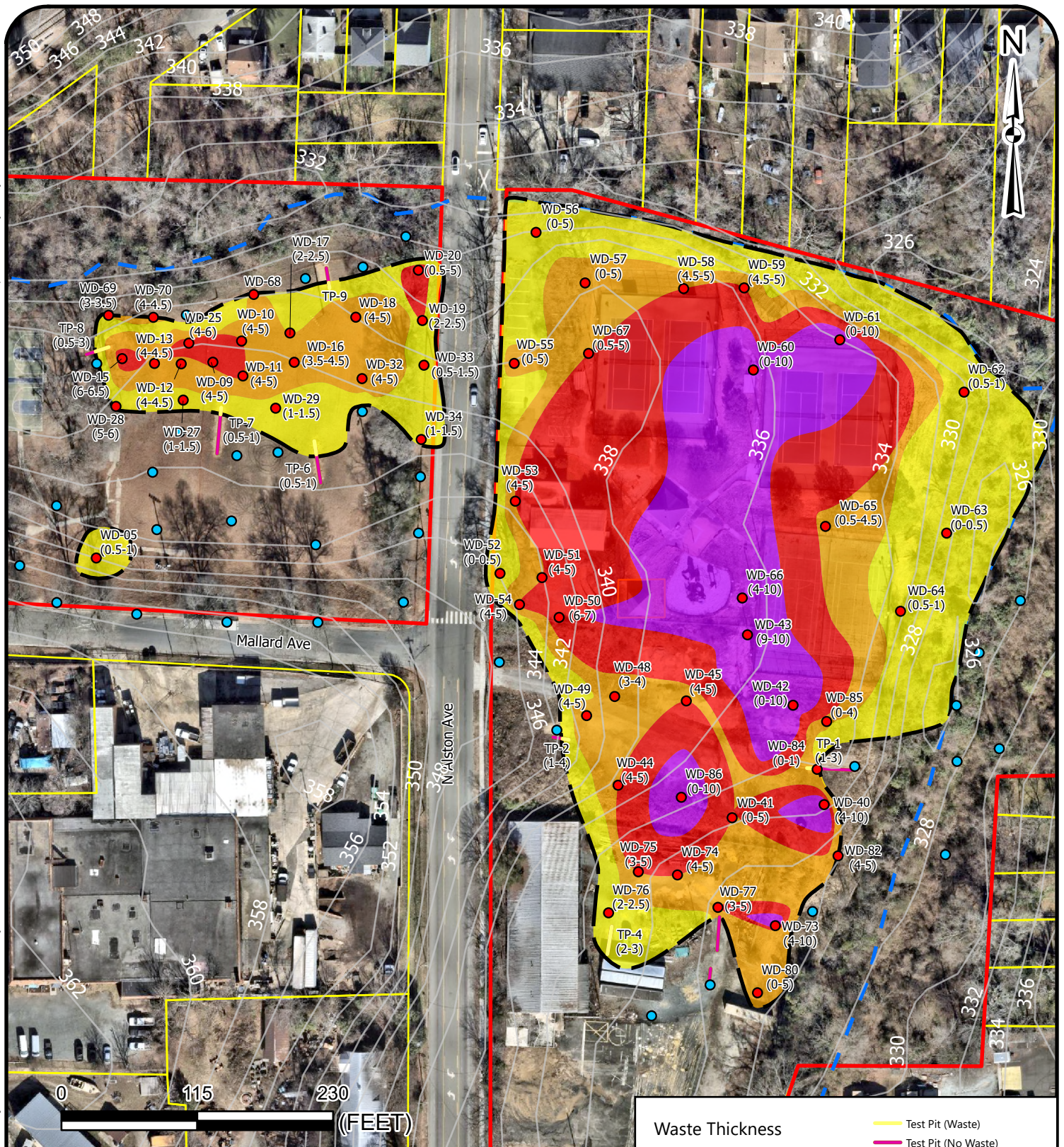
EAST END PARK
NCDEQ ID NO. NONCD0000823, TASK ORDER 823RI-5 & 821RI-9
1200 N. ALSTON AVENUE
DURHAM, NORTH CAROLINA

SCALE:
1 in = 115 ft

DATE:
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FIGURE NO.

2



NOTES: (0-10) = WASTE THICKNESS IN FEET.

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE LATEST NCONEMAP ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

Waste Thickness	
0-3 ft	Test Pit (No Waste)
3-5 ft	Former Incinerator
5-8 ft	City of Durham Property
8-10 ft	Durham County Parcels
Waste Delineation Boring (No Waste)	Estimated Waste Boundary
Waste Delineation Boring (Waste)	Stream
	Topographic Contour



WASTE THICKNESS MAP

EAST END PARK
NCDEQ ID NO. NONCD0000823, TASK ORDER 823RI-5 & 821RI-9
1200 N. ALSTON AVENUE
DURHAM, NORTH CAROLINA

SCALE:
1 in = 115 ft

DATE:
3/21/2025

PROJECT NUMBER
23050630

FIGURE NO.
3

Tables



Table 1
WDA Delineation of Selected Features
East End Park, NONCD0000823
Durham, Durham County, North Carolina
S&ME Project No.: 23050230, Task Order 823RI-5 & 821RI-9

Site Feature	Type	WDA Delineation			
		USCS	DEPTH (FT)	Waste Depth	Waste Classification
TP-1	Trench	SM	5	1-3	MELTED METAL, GLASS, ASH
TP-2	Trench	SM	5	1-4	GLASS, ASH, BRICK, CERAMIC, METAL
TP-3	Trench	CL	4.5	NA	PETROLEUM SMELL, NO WASTE
TP-4	Trench	SM	5	0-5	BRICK, GLASS, ASH THROUGHOUT
TP-5	Trench	GP	4	NA	NA
TP-6	Trench	SM	3	0.5-3	GLASS, OLD WATER LINE
TP-7	Trench	SM	6	0.5-6	ASH, BRICK, GLASS
TP-8	Trench	CL-ML	3	0.5-3	ASH, BRICK, GLASS
TP-9	Trench	SM	7	1-2	ASH, GLASS, CERAMIC, BRICK
WD-01	Waste Delineation Boring	ML	7	NA	NA
WD-02	Waste Delineation Boring	CL-ML	9	NA	NA
WD-03	Waste Delineation Boring	CL-ML	10	NA	NA
WD-04	Waste Delineation Boring	SM	10	NA	NA
WD-05	Waste Delineation Boring	SM	5	0.5-1	ASH
WD-06	Waste Delineation Boring	SC	5	NA	NA
WD-07	Waste Delineation Boring	ML	5	NA	NA
WD-08	Waste Delineation Boring	SC	5	NA	NA
WD-09	Waste Delineation Boring	ML	5	NA	NA
WD-10	Waste Delineation Boring	CL-ML	5	4-5	GLASS, MELTED CHUNKS
WD-11	Waste Delineation Boring	CL-ML	10	4-5	GLASS
WD-12	Waste Delineation Boring	CL-ML	5	4-4.5	GLASS, MELTED CHUNKS
WD-13	Waste Delineation Boring	CL-ML	5	4-4.5	GLASS
WD-14	Waste Delineation Boring	SM	10	NA	NA
WD-15	Waste Delineation Boring	CL-ML	10	0.5-1, 6-6.5	GLASS, MELTED CHUNKS
WD-16	Waste Delineation Boring	SM	5	3.5-4.5	GLASS
WD-17	Waste Delineation Boring	SM	5	2-2.5	GLASS
WD-18	Waste Delineation Boring	SM	5	4-5	ASH, GLASS
WD-19	Waste Delineation Boring	SM	5	2-2.5	GLASS
WD-20	Waste Delineation Boring	SM	5	0.5-5	GLASS
WD-21	Waste Delineation Boring	CL-ML	5	NA	NA
WD-22	Waste Delineation Boring	CL-ML	5	NA	NA
WD-23	Waste Delineation Boring	CL-ML	5	NA	NA
WD-24	Waste Delineation Boring	CL-ML	10	NA	NA
WD-25	Waste Delineation Boring	ML	10	4-6	GLASS
WD-26	Waste Delineation Boring	ML	10	NA	NA
WD-27	Waste Delineation Boring	ML	5	1-0.5	ASH, BRICK
WD-28	Waste Delineation Boring	ML	7	5-6	ASH
WD-29	Waste Delineation Boring	CL-ML	5	1-0.5	ASH
WD-30	Waste Delineation Boring	CL-ML	5.5	NA	NA
WD-31	Waste Delineation Boring	ML	9	NA	NA
WD-32	Waste Delineation Boring	CL-ML	10	4-5	GLASS, ASH
WD-33	Waste Delineation Boring	ML	5	0.5-1.5	GLASS, METAL, ASH
WD-34	Waste Delineation Boring	ML	5	1-0.5	ASH
WD-35	Waste Delineation Boring	CL-ML	4.5	NA	NA
WD-36	Waste Delineation Boring	CL-ML	5	NA	NA
WD-37	Waste Delineation Boring	CL-ML	2	NA	NA
WD-38	Waste Delineation Boring	SM	5	NA	NA
WD-39	Waste Delineation Boring	SM	5	NA	NA
WD-40	Waste Delineation Boring	GM	10	4-10	ASH, GLASS, BRICK
WD-41	Waste Delineation Boring	FILL	5	0-5	CHUNKS GLASS, ASH, CERAMIC
WD-42	Waste Delineation Boring	GP	10	0-0.5, 4-10	ASH, GLASS, BRICK
WD-43	Waste Delineation Boring	SM	10	9-10	GLASS, ASH
WD-44	Waste Delineation Boring	GP, SC	10	4-5	ASH
WD-45	Waste Delineation Boring	GP	5	4-5	ASH
WD-46	Waste Delineation Boring	SM	5	NA	NA
WD-47	Waste Delineation Boring	GP	5	NA	NA
WD-48	Waste Delineation Boring	CL	10	3-4	ASH
WD-49	Waste Delineation Boring	GP	5	4-5	ASH, GLASS

Notes:

SM = SILTY SAND ML = SILT GM = SILTY GRAVEL CL-ML = SILTY CLAY
CL = LEAN CLAY GP = POORLY GRADED GRAVEL SC = CLAYEY SAND



Table 1
WDA Delineation of Selected Features
East End Park, NONCD0000823
Durham, Durham County, North Carolina
S&ME Project No.: 23050230, Task Order 823RI-5 & 821RI-9

Site Feature	Type	WDA Delineation			
		USCS	DEPTH (FT)	Waste Depth	Waste Classification
WD-50	Waste Delineation Boring	CL	10	1-2, 6-7	ASH
WD-51	Waste Delineation Boring	ML	5	4-5	ASH, GLASS
WD-52	Waste Delineation Boring	CL	5	0-0.5	ASH
WD-53	Waste Delineation Boring	CL-ML	5	0-0.5, 4-5	ASH
WD-54	Waste Delineation Boring	CL-ML	5	0-0.5, 4-5	CHUNKS GLASS & ASH
WD-55	Waste Delineation Boring	FILL	5	0-5	GLASS, ASH
WD-56	Waste Delineation Boring	FILL	5	0-5	GLASS, ASH
WD-57	Waste Delineation Boring	FILL	5	0-5	GLASS, ASH, BRICK
WD-58	Waste Delineation Boring	CL-ML	10	2-2.5, 4.5-5	ASH
WD-59	Waste Delineation Boring	CL	5	0-0.5, 4.5-5	ASH
WD-60	Waste Delineation Boring	FILL	10	0-10	ASH, GLASS
WD-61	Waste Delineation Boring	FILL	10	0-10	ASH, GLASS
WD-62	Waste Delineation Boring	CL	5	0.5-1	ASH, GLASS
WD-63	Waste Delineation Boring	CL	5	0-0.5	ASH, GLASS
WD-64	Waste Delineation Boring	CL	5	0.5-1	ASH, GLASS
WD-65	Waste Delineation Boring	FILL	4.5	0.5-4.5	CHUNKS GLASS, ASH, BRICK
WD-66	Waste Delineation Boring	CL	10	4-10	GLASS, ASH, BRICK
WD-67	Waste Delineation Boring	FILL	5	0.5-5	CERAMICS, GLASS, ASH
WD-68	Waste Delineation Boring	CL	5	3-3.5	ASH, GLASS
WD-69	Waste Delineation Boring	CL-ML	10	4-4.5, 5-5.5	BRICK, BLACK GLASS, MELTED PIECES
WD-70	Waste Delineation Boring	CL	5	0.5-1, 4-4.5	GLASS, ASH, BRICK
WD-71	Waste Delineation Boring	CL	5	NA	NA
WD-72	Waste Delineation Boring	CL-ML	5	NA	NA
WD-73	Waste Delineation Boring	SM	10	4-10	GLASS, ASH, BRICK
WD-74	Waste Delineation Boring	CL	5	4-5	GLASS, ASH, BRICK
WD-75	Waste Delineation Boring	SM	5	3-5	GLASS, ASH, BRICK
WD-76	Waste Delineation Boring	SM	5	2-2.5	ASH, BRICK
WD-77	Waste Delineation Boring	SM	5	3-5	GLASS, ASH, BRICK
WD-78	Waste Delineation Boring	CL	5	NA	NA
WD-79	Waste Delineation Boring	CL	5	NA	NA
WD-80	Waste Delineation Boring	FILL	5	0-5	ASH, CERAMIC, GLASS
WD-81	Waste Delineation Boring	SM	5	NA	NA
WD-82	Waste Delineation Boring	SM	5	4-5	ASH, GLASS, MELTED CHUNKS
WD-83	Waste Delineation Boring	GP	5	NA	NA
WD-84	Waste Delineation Boring	CL	5	0-1	ASH
WD-85	Waste Delineation Boring	CL	5	0-1, 3-4	ASH, GLASS
WD-86	Waste Delineation Boring	FILL	10	0-10	ASH, GLASS, BRICK
WD-87	Waste Delineation Boring	SM	3	NA	NA
WD-88	Waste Delineation Boring	SM	3	NA	NA
WD-89	Waste Delineation Boring	SM	3	NA	NA
WD-90	Waste Delineation Boring	SM	3	NA	NA
WD-91	Waste Delineation Boring	SM	3	NA	NA
WD-92	Waste Delineation Boring	SM	3	NA	NA

Notes:

SM = SILTY SAND ML = SILT GM = SILTY GRAVEL CL-ML = SILTY CLAY
CL = LEAN CLAY GP = POORLY GRADED GRAVEL SC = CLAYEY SAND

Appendices

Appendix I - Coordinates of Selected Features



APPENDIX I
Coordinates of Selected Features
East End Park, NONCD0000823
Durham, Durham County, North Carolina
S&ME Project No.: 23050230, Task Order 823RI-5 & 821RI-9

Page 1 of 2

Site Feature	Type	Location			
		Latitude	Longitude	Northing	Easting
TP-1	Trench	35.99694	-78.88484	3985677.961	690655.21700
TP-2	Trench	35.99701	-78.88563	3985684.181	690583.82900
TP-3	Trench	35.99645	-78.88520	3985622.897	690623.94200
TP-4	Trench	35.99654	-78.88548	3985632.334	690598.48300
TP-5	Trench	35.99655	-78.88517	3985634.05	690626.40600
TP-6	Trench	35.99764	-78.88632	3985752.723	690520.11000
TP-7	Trench	35.99772	-78.88660	3985761.05	690494.67500
TP-8	Trench	35.99791	-78.88695	3985781.444	690462.66600
TP-9	Trench	35.99808	-78.88629	3985801.594	690521.75500
WD-01	Waste Delineation Boring	35.99746	-78.88632	3985732.62000	690520.22900
WD-02	Waste Delineation Boring	35.99767	-78.88655	3985755.22000	690499.39500
WD-03	Waste Delineation Boring	35.99755	-78.88707	3985741.32000	690453.15500
WD-04	Waste Delineation Boring	35.99733	-78.88706	3985716.34500	690453.71600
WD-05	Waste Delineation Boring	35.99743	-78.88695	3985728.06000	690463.66800
WD-06	Waste Delineation Boring	35.99749	-78.88678	3985735.70000	690479.15300
WD-07	Waste Delineation Boring	35.99751	-78.88656	3985738.32300	690498.35600
WD-08	Waste Delineation Boring	35.99763	-78.88679	3985750.49100	690477.75700
WD-09	Waste Delineation Boring	35.99788	-78.88662	3985779.18900	690492.71700
WD-10	Waste Delineation Boring	35.99793	-78.88654	3985784.80900	690500.01700
WD-11	Waste Delineation Boring	35.99785	-78.88653	3985775.79700	690500.54700
WD-12	Waste Delineation Boring	35.99788	-78.88671	3985778.59900	690484.55500
WD-13	Waste Delineation Boring	35.99788	-78.88678	3985778.55600	690477.65000
WD-14	Waste Delineation Boring	35.99788	-78.88695	3985778.19600	690462.75900
WD-15	Waste Delineation Boring	35.99789	-78.88688	3985779.62800	690469.28900
WD-16	Waste Delineation Boring	35.99788	-78.88638	3985779.59200	690513.71800
WD-17	Waste Delineation Boring	35.99795	-78.88640	3985787.13000	690512.44600
WD-18	Waste Delineation Boring	35.99799	-78.88621	3985791.55900	690529.35800
WD-19	Waste Delineation Boring	35.99798	-78.88602	3985791.05200	690546.56100
WD-20	Waste Delineation Boring	35.99810	-78.88603	3985804.01300	690545.26200
WD-21	Waste Delineation Boring	35.99818	-78.88606	3985812.62200	690541.85000
WD-22	Waste Delineation Boring	35.99808	-78.88635	3985801.26200	690516.16400
WD-23	Waste Delineation Boring	35.99810	-78.88619	3985804.54500	690530.93700
WD-24	Waste Delineation Boring	35.99799	-78.88669	3985791.21400	690485.63200
WD-25	Waste Delineation Boring	35.99793	-78.88669	3985783.97600	690486.41300
WD-26	Waste Delineation Boring	35.99772	-78.88671	3985761.04800	690484.66500
WD-27	Waste Delineation Boring	35.99780	-78.88670	3985769.25300	690485.26200
WD-28	Waste Delineation Boring	35.99778	-78.88689	3985767.27200	690467.94800
WD-29	Waste Delineation Boring	35.99778	-78.88644	3985767.65500	690509.15700
WD-30	Waste Delineation Boring	35.99767	-78.88643	3985756.27800	690510.00000
WD-31	Waste Delineation Boring	35.99777	-78.88619	3985767.24400	690531.53400
WD-32	Waste Delineation Boring	35.99785	-78.88619	3985775.74300	690531.29500
WD-33	Waste Delineation Boring	35.99788	-78.88601	3985779.53500	690547.20100
WD-34	Waste Delineation Boring	35.99770	-78.88602	3985760.35700	690546.89000
WD-35	Waste Delineation Boring	35.99762	-78.88602	3985750.73900	690546.87500
WD-36	Waste Delineation Boring	35.99728	-78.88632	3985712.63400	690521.16900
WD-37	Waste Delineation Boring	35.99728	-78.88658	3985712.20400	690497.72400
WD-38	Waste Delineation Boring	35.99730	-78.88684	3985713.77700	690474.41000
WD-39	Waste Delineation Boring	35.99741	-78.88717	3985725.68200	690443.95000
WD-40	Waste Delineation Boring	35.99685	-78.88487	3985668.29300	690652.78600
WD-41	Waste Delineation Boring	35.99682	-78.88513	3985664.41800	690629.11800
WD-42	Waste Delineation Boring	35.99708	-78.88496	3985693.77200	690644.24300
WD-43	Waste Delineation Boring	35.99725	-78.88509	3985711.69300	690632.10800
WD-44	Waste Delineation Boring	35.99690	-78.88546	3985672.20600	690599.51800
WD-45	Waste Delineation Boring	35.99709	-78.88526	3985694.31900	690616.67100
WD-46	Waste Delineation Boring	35.99703	-78.88563	3985686.08700	690583.41900
WD-47	Waste Delineation Boring	35.99719	-78.88580	3985703.31700	690568.20700
WD-48	Waste Delineation Boring	35.99711	-78.88547	3985695.07900	690598.16500
WD-49	Waste Delineation Boring	35.99706	-78.88555	3985690.00300	690591.02100

Notes:

Site feature locations are reported in decimal degrees for Latitude/Longitude and in feet in the North Carolina State Plane Coordinate System (NAD83).



APPENDIX I
Coordinates of Selected Features
East End Park, NONCD0000823
Durham, Durham County, North Carolina
S&ME Project No.: 23050230, Task Order 823RI-5 & 821RI-9

Page 2 of 2

Site Feature	Type	Location			
		Latitude	Longitude	Northing	Easting
WD-50	Waste Delineation Boring	35.99729	-78.88563	3985715.19000	690583.41300
WD-51	Waste Delineation Boring	35.99738	-78.88568	3985725.37000	690578.78600
WD-52	Waste Delineation Boring	35.99739	-78.88580	3985726.23100	690567.92100
WD-53	Waste Delineation Boring	35.99756	-78.88575	3985744.93300	690571.48900
WD-54	Waste Delineation Boring	35.99732	-78.88574	3985718.29400	690573.10700
WD-55	Waste Delineation Boring	35.99788	-78.88575	3985780.47300	690570.48100
WD-56	Waste Delineation Boring	35.99818	-78.88569	3985814.39600	690575.41400
WD-57	Waste Delineation Boring	35.99807	-78.88555	3985801.61100	690588.34100
WD-58	Waste Delineation Boring	35.99805	-78.88527	3985800.67000	690613.79700
WD-59	Waste Delineation Boring	35.99806	-78.88510	3985801.17200	690629.41000
WD-60	Waste Delineation Boring	35.99786	-78.88507	3985780.03900	690632.22400
WD-61	Waste Delineation Boring	35.99793	-78.88482	3985788.29100	690654.36700
WD-62	Waste Delineation Boring	35.99781	-78.88447	3985775.45100	690686.70200
WD-63	Waste Delineation Boring	35.99748	-78.88452	3985738.98100	690682.95100
WD-64	Waste Delineation Boring	35.99730	-78.88465	3985718.58000	690671.47500
WD-65	Waste Delineation Boring	35.99750	-78.88486	3985740.08500	690651.64900
WD-66	Waste Delineation Boring	35.99733	-78.88510	3985721.16900	690630.57000
WD-67	Waste Delineation Boring	35.99790	-78.88554	3985783.44300	690589.60300
WD-68	Waste Delineation Boring	35.99804	-78.88650	3985796.87800	690502.90300
WD-69	Waste Delineation Boring	35.99799	-78.88692	3985790.73100	690465.55000
WD-70	Waste Delineation Boring	35.99799	-78.88679	3985790.45800	690477.12100
WD-71	Waste Delineation Boring	35.99749	-78.88603	3985736.18800	690546.69600
WD-72	Waste Delineation Boring	35.99733	-78.88607	3985718.28500	690543.15600
WD-73	Waste Delineation Boring	-78.88501	35.99657	3985636.81100	3985636.81100
WD-74	Waste Delineation Boring	-78.88529	35.99669	3985649.37400	3985649.37400
WD-75	Waste Delineation Boring	-78.88540	35.99670	3985649.98500	3985649.98500
WD-76	Waste Delineation Boring	-78.88549	35.99660	3985639.23700	3985639.23700
WD-77	Waste Delineation Boring	-78.88517	35.99661	3985641.22800	3985641.22800
WD-78	Waste Delineation Boring	-78.88520	35.99643	3985621.18100	3985621.18100
WD-79	Waste Delineation Boring	-78.88536	35.99636	3985612.88900	3985612.88900
WD-80	Waste Delineation Boring	-78.88506	35.99642	3985619.39500	3985619.39500
WD-81	Waste Delineation Boring	-78.88490	35.99660	3985640.66200	3985640.66200
WD-82	Waste Delineation Boring	-78.88483	35.99673	3985655.15200	3985655.15200
WD-83	Waste Delineation Boring	-78.88478	35.99694	3985678.31500	3985678.31500
WD-84	Waste Delineation Boring	-78.88489	35.99694	3985677.36200	3985677.36200
WD-85	Waste Delineation Boring	-78.88486	35.99705	3985689.75000	3985689.75000
WD-86	Waste Delineation Boring	-78.88528	35.99687	3985669.43200	3985669.43200
WD-87	Waste Delineation Boring	35.99698	-78.88437	3985683.66200	690697.68900
WD-88	Waste Delineation Boring	35.99733	-78.88431	3985721.97500	690702.32800
WD-89	Waste Delineation Boring	35.99674	-78.88452	3985656.02300	690684.33900
WD-90	Waste Delineation Boring	35.99721	-78.88443	3985708.28100	690691.97100
WD-91	Waste Delineation Boring	35.99695	-78.88449	3985680.15400	690686.85100
WD-92	Waste Delineation Boring	35.99708	-78.88449	3985694.56900	690686.39000

Notes:

Site feature locations are reported in decimal degrees for Latitude/Longitude and in feet in the North Carolina State Plane Coordinate System (NAD83).

Appendix II – Boring Logs

PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-01							
East End Park										
S&ME Project No. 23050630										
DATE DRILLED:		Thursday, November 7, 2024	BORING DEPTH (FT):		7					
DRILL RIG:		Geoprobe 7822 DT	WATER LEVEL:							
DRILLER:		Quantex	CAVE-IN DEPTH:							
HAMMER TYPE:		Not Applicable	LOGGED BY:		Emily Hermann					
SAMPLING METHOD:			NORTHING:		3985732.62					
DRILLING METHOD:		DPT	EASTING:		690520.229					
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Silt, Purpleish, Brown, Some Clay, Dry,								
5		Partially Weathered Rock, Silt, Purpleish, Brown, Dry,								
		Boring Terminated at 7 Ft-BGS								
10										
15										
20										
25										
30										

PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-02							
East End Park S&ME Project No. 23050630										
DATE DRILLED:	Thursday, November 7, 2024	BORING DEPTH (FT):	9							
DRILL RIG:	Geoprobe 7822 DT	WATER LEVEL:								
DRILLER:	Quantex	CAVE-IN DEPTH:								
HAMMER TYPE:	Not Applicable	LOGGED BY:	Emily Hermann							
SAMPLING METHOD:		NORTHING:	3985755.22							
DRILLING METHOD:	DPT	EASTING:	690499.395							
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Topsoil, Brown, Dry,								
		Clayey Silt, Reddish, Brown, Dry,								
5		Clayey Silt, Greyish, Brown, Dry,								

PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-03							
East End Park										
S&ME Project No. 23050630										
DATE DRILLED:	Thursday, November 7, 2024		BORING DEPTH (FT):	10						
DRILL RIG:	Geoprobe 7822 DT		WATER LEVEL:							
DRILLER:	Quantex		CAVE-IN DEPTH:							
HAMMER TYPE:	Not Applicable		LOGGED BY:	Emily Hermann						
SAMPLING METHOD:			NORTHING:	3985741.32						
DRILLING METHOD:	DPT		EASTING:	690453.155						
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Topsoil, Brown, Dry,								
		Clayey Silt, Orange, Brown, Moist,								
5		Silty Clay, Orange, Brown, Dry,								
10		Boring Terminated at 10 Ft-BGS								
15										
20										
25										
30										

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PROJECT:				Durham Parks Waste Delineation		BORING LOG: WD-05							
				East End Park									
				S&ME Project No. 23050630									
DATE DRILLED:		Thursday, November 7, 2024			BORING DEPTH (FT):		5						
DRILL RIG:		Geoprobe 7822 DT			WATER LEVEL:								
DRILLER:		Quantex			CAVE-IN DEPTH:								
HAMMER TYPE:		Not Applicable			LOGGED BY:		Emily Hermann						
SAMPLING METHOD:					NORTHING:		3985728.06						
DRILLING METHOD:		DPT			EASTING:		690463.668						
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION				WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Topsoil, Brown, Dry,											
		Fill, Incinerator waste (black ash), Black,											
		Silty Sand, Purple, Brown, Dry,											
5		Boring Terminated at 5 Ft-BGS											
10													
15													
20													
25													
30													

[illegible]

PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-07								
East End Park											
S&ME Project No. 23050630											
DATE DRILLED:		Thursday, November 7, 2024		BORING DEPTH (FT):		5					
DRILL RIG:		Geoprobe 7822 DT		WATER LEVEL:							
DRILLER:		Quantex		CAVE-IN DEPTH:							
HAMMER TYPE:		Not Applicable		LOGGED BY:		Emily Hermann					
SAMPLING METHOD:				NORTHING:		3985738.323					
DRILLING METHOD:		DPT		EASTING:		690498.356					
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION		WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Topsoil, Brown, Dry,									
		Silt, Purple, Brown, Dry,									
		Partially Weathered Rock, Greyish, Brown, Dry,									
5		Boring Terminated at 5 Ft-BGS									
10											
15											
20											
25											
30											

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PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-14							
East End Park										
S&ME Project No. 23050630										
DATE DRILLED:	Thursday, November 7, 2024		BORING DEPTH (FT):		10					
DRILL RIG:	Geoprobe 7822 DT		WATER LEVEL:							
DRILLER:	Quantex		CAVE-IN DEPTH:							
HAMMER TYPE:	Not Applicable		LOGGED BY:		Emily Hermann					
SAMPLING METHOD:			NORTHING:		3985778.196					
DRILLING METHOD:	DPT		EASTING:		690462.759					
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
5		Topsoil, Brown, Dry,								
		Sandy Silt, Light Brown, to, Orange Brown, Dry,								
10		Sandy Silt, Light Brown, to, Orange Brown, Dry,								
15		Boring Terminated at 10 Ft-BGS								
	20									
25										
30										

PROJECT:			Durham Parks Waste Delineation									
			East End Park S&ME Project No. 23050630		BORING LOG: WD-15							
DATE DRILLED:		Thursday, November 7, 2024			BORING DEPTH (FT):		10					
DRILL RIG:		Geoprobe 7822 DT			WATER LEVEL:							
DRILLER:		Quantex			CAVE-IN DEPTH:							
HAMMER TYPE:		Not Applicable			LOGGED BY:		Emily Hermann					
SAMPLING METHOD:					NORTHING:		3985779.628					
DRILLING METHOD:		DPT			EASTING:		690469.289					
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Topsoil, Brown, Dry,										
		Fill, Possible incinerator waste (bubbly chunks), Black,										
		Clayey Silt, Orange, Brown, Dry,										
5		Clayey Silt, Orange, Brown, Dry,										
		Fill, Incincerator waste (glass), Black,										
		Clayey Silt, Orange, Brown, Dry,										
10		Boring Terminated at 10 Ft-BGS										
15												
20												
25												
30												

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PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-17								
East End Park											
S&ME Project No. 23050630											
DATE DRILLED:		Thursday, November 7, 2024		BORING DEPTH (FT):		5					
DRILL RIG:		Geoprobe 7822 DT		WATER LEVEL:							
DRILLER:		Quantex		CAVE-IN DEPTH:							
HAMMER TYPE:		Not Applicable		LOGGED BY:		Emily Hermann					
SAMPLING METHOD:				NORTHING:		3985787.13					
DRILLING METHOD:		DPT		EASTING:		690512.446					
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION		WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Sandy Silt, Orange, Brown, Dry,									
		Fill, Incinerator waste (glass), Black,									
		Sandy Silt, Orange, Brown, Dry,									
5		Boring Terminated at 5 Ft-BGS									
10											
15											
20											
25											
30											

PROJECT: Durham Parks Waste Delineation East End Park S&ME Project No. 23050630			BORING LOG: WD-18									
DATE DRILLED:		Thursday, November 7, 2024		BORING DEPTH (FT):		5						
DRILL RIG:		Geoprobe 7822 DT		WATER LEVEL:								
DRILLER:		Quantex		CAVE-IN DEPTH:								
HAMMER TYPE:		Not Applicable		LOGGED BY:		Emily Hermann						
SAMPLING METHOD:				NORTHING:		3985791.559						
DRILLING METHOD:		DPT		EASTING:		690529.358						
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Sandy Silt, Orange, Brown, Dry,										
5		Fill, Incinerator waste (lots of ash & glass), Black,										
		Boring Terminated at 5 Ft-BGS										
10												
15												
20												
25												
30												

PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-19								
East End Park											
S&ME Project No. 23050630											
DATE DRILLED:		Thursday, November 7, 2024		BORING DEPTH (FT):		5					
DRILL RIG:		Geoprobe 7822 DT		WATER LEVEL:							
DRILLER:		Quantex		CAVE-IN DEPTH:							
HAMMER TYPE:		Not Applicable		LOGGED BY:		Emily Hermann					
SAMPLING METHOD:				NORTHING:		3985791.052					
DRILLING METHOD:		DPT		EASTING:		690546.561					
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION		WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Sandy Silt, Orange, Brown, Dry,									
		Fill, Incinerator waste (glass), Black,									
		Sandy Silt, Orange, Brown, Dry,									
5		Boring Terminated at 5 Ft-BGS									
10											
15											
20											
25											
30											

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PROJECT:		Durham Parks Waste Delineation			BORING LOG: WD-24							
		East End Park										
		S&ME Project No. 23050630										
DATE DRILLED:		Thursday, November 7, 2024			BORING DEPTH (FT):		10					
DRILL RIG:		Geoprobe 7822 DT			WATER LEVEL:							
DRILLER:		Quantex			CAVE-IN DEPTH:							
HAMMER TYPE:		Not Applicable			LOGGED BY:		Emily Hermann					
SAMPLING METHOD:					NORTHING:		3985791.214					
DRILLING METHOD:		DPT			EASTING:		690485.632					
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Silt, Orange, to, Reddish Brown, Dry,										
5		Silty Clay, Orange, Brown, Moist,										
10		Boring Terminated at 10 Ft-BGS										
15												
20												
25												
30												

PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-25									
East End Park												
S&ME Project No. 23050630												
DATE DRILLED:		Thursday, November 7, 2024		BORING DEPTH (FT):		10						
DRILL RIG:		Geoprobe 7822 DT		WATER LEVEL:								
DRILLER:		Quantex		CAVE-IN DEPTH:								
HAMMER TYPE:		Not Applicable		LOGGED BY:		Emily Hermann						
SAMPLING METHOD:				NORTHING:		3985783.976						
DRILLING METHOD:		DPT		EASTING:		690486.413						
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION		WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE	
		Silt, Orange, Brown, Dry,										
5		Fill, Incinerator waste (glass), Black,										
		Silt, Orange, Brown, Dry,										
10		Boring Terminated at 10 Ft-BGS										
15												
20												
25												
30												

PROJECT:		Durham Parks Waste Delineation			BORING LOG: WD-26							
		East End Park										
		S&ME Project No. 23050630										
DATE DRILLED:		Friday, November 8, 2024			BORING DEPTH (FT):		10					
DRILL RIG:		Geoprobe 7822 DT			WATER LEVEL:							
DRILLER:		Quantex			CAVE-IN DEPTH:							
HAMMER TYPE:		Not Applicable			LOGGED BY:		Emily Hermann					
SAMPLING METHOD:					NORTHING:		3985761.048					
DRILLING METHOD:		DPT			EASTING:		690484.665					
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Silt, Orange, Brown, Dry,										
5		Sand, Orange, to, Light Brown, Dry,										
10		Boring Terminated at 10 Ft-BGS										
15												
20												
25												
30												

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[illegible]

PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-30								
East End Park											
S&ME Project No. 23050630											
DATE DRILLED:		Friday, November 8, 2024		BORING DEPTH (FT):		5.5					
DRILL RIG:		Geoprobe 7822 DT		WATER LEVEL:							
DRILLER:		Quantex		CAVE-IN DEPTH:							
HAMMER TYPE:		Not Applicable		LOGGED BY:		Emily Hermann					
SAMPLING METHOD:				NORTHING:		3985756.278					
DRILLING METHOD:		DPT		EASTING:		690510					
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION		WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
5		Sandy Silt, Orange, Brown, Dry,									
		Boring Terminated at 5.5 Ft-BGS									
10											
15											
20											
25											
30											

PROJECT: Durham Parks Waste Delineation						BORING LOG: WD-31							
East End Park S&ME Project No. 23050630													
DATE DRILLED:		Friday, November 8, 2024				BORING DEPTH (FT):		9					
DRILL RIG:		Geoprobe 7822 DT				WATER LEVEL:							
DRILLER:		Quantex				CAVE-IN DEPTH:							
HAMMER TYPE:		Not Applicable				LOGGED BY:		Emily Hermann					
SAMPLING METHOD:						NORTHING:		3985767.244					
DRILLING METHOD:		DPT				EASTING:		690531.534					
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION				WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Silt, Bright, Orange, Dry,											
5		Silt, Orange, Dry,											
10		Boring Terminated at 9 Ft-BGS											
15													
20													
25													
30													

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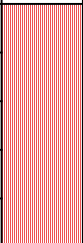
[illegible]

PROJECT: Durham Parks Waste Delineation			East End Park		BORING LOG: WD-34							
S&ME Project No. 23050630												
DATE DRILLED:		Friday, November 8, 2024			BORING DEPTH (FT):		5					
DRILL RIG:		Geoprobe 7822 DT			WATER LEVEL:							
DRILLER:		Quantex			CAVE-IN DEPTH:							
HAMMER TYPE:		Not Applicable			LOGGED BY:		Emily Hermann					
SAMPLING METHOD:					NORTHING:		3985760.357					
DRILLING METHOD:		DPT			EASTING:		690546.89					
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Silt, Brown, Dry,										
		Fill, Incinerator waste,										
		Silt, Brown, Orange, Dry,										
5		Boring Terminated at 5 Ft-BGS										
10												
15												
20												
25												
30												

PROJECT:			Durham Parks Waste Delineation			BORING LOG: WD-35						
			East End Park									
			S&ME Project No. 23050630									
DATE DRILLED:		Friday, November 8, 2024			BORING DEPTH (FT):		4.5					
DRILL RIG:		Geoprobe 7822 DT			WATER LEVEL:							
DRILLER:		Quantex			CAVE-IN DEPTH:							
HAMMER TYPE:		Not Applicable			LOGGED BY:		Emily Hermann					
SAMPLING METHOD:					NORTHING:		3985750.739					
DRILLING METHOD:		DPT			EASTING:		690546.875					
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
5		Sandy Silt, Red, Orange, Dry,										
		Boring Terminated at 4.5 Ft-BGS										
10												
15												
20												
25												
30												

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PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-38							
East End Park S&ME Project No. 23050630										
DATE DRILLED:	Friday, November 8, 2024		BORING DEPTH (FT):	5						
DRILL RIG:	Geoprobe 7822 DT		WATER LEVEL:							
DRILLER:	Quantex		CAVE-IN DEPTH:							
HAMMER TYPE:	Not Applicable		LOGGED BY:	Emily Hermann						
SAMPLING METHOD:			NORTHING:	3985713.777						
DRILLING METHOD:	DPT		EASTING:	690474.41						
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Silty Sand, Light Tan, Red, Dry,								
5		Boring Terminated at 5 Ft-BGS								
10										
15										
20										
25										
30										

PROJECT: Durham Parks Waste Delineation East End Park S&ME Project No. 23050630			BORING LOG: WD-39									
DATE DRILLED:		Friday, November 8, 2024		BORING DEPTH (FT):		5						
DRILL RIG:		Geoprobe 7822 DT		WATER LEVEL:								
DRILLER:		Quantex		CAVE-IN DEPTH:								
HAMMER TYPE:		Not Applicable		LOGGED BY:		Emily Hermann						
SAMPLING METHOD:				NORTHING:		3985725.682						
DRILLING METHOD:		DPT		EASTING:		690443.95						
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
5		Sandy Silt, Orange, Brown, Dry,										
		Boring Terminated at 5 Ft-BGS										
10												
15												
20												
25												
30												

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PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-42								
East End Park											
S&ME Project No. 23050630											
DATE DRILLED:		Friday, November 8, 2024		BORING DEPTH (FT):		10					
DRILL RIG:		Geoprobe 7822 DT		WATER LEVEL:							
DRILLER:		Quantex		CAVE-IN DEPTH:							
HAMMER TYPE:		Not Applicable		LOGGED BY:		Emily Hermann					
SAMPLING METHOD:				NORTHING:		3985693.772					
DRILLING METHOD:		DPT		EASTING:		690644.243					
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION		WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Fill, Incinerator waste (ash, glass, brick), Gravel, Gray, Dry,									
5		Fill, Incinerator waste (glass, brick),									
		Fill, Incinerator waste (glass, brick),									
10		Boring Terminated at 10 Ft-BGS									
15											
20											
25											
30											

PROJECT: Durham Parks Waste Delineation			East End Park			BORING LOG: WD-43							
S&ME Project No. 23050630													
DATE DRILLED:		Friday, November 8, 2024			BORING DEPTH (FT):		10						
DRILL RIG:		Geoprobe 7822 DT			WATER LEVEL:								
DRILLER:		Quantex			CAVE-IN DEPTH:								
HAMMER TYPE:		Not Applicable			LOGGED BY:		Emily Hermann						
SAMPLING METHOD:					NORTHING:		3985711.693						
DRILLING METHOD:		DPT			EASTING:		690632.108						
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION				WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Silty Sand, Brown, Some Gravel, Dry,											
5		Sandy Silt, Tan, Dry,											
10		Fill, Incinerator waste (glass, ash),											
		Boring Terminated at 10 Ft-BGS											
15													
20													
25													
30													

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PROJECT: Durham Parks Waste Delineation East End Park S&ME Project No. 23050630			BORING LOG: WD-46									
DATE DRILLED:		Friday, November 8, 2024		BORING DEPTH (FT):		5						
DRILL RIG:		Geoprobe 7822 DT		WATER LEVEL:								
DRILLER:		Quantex		CAVE-IN DEPTH:								
HAMMER TYPE:		Not Applicable		LOGGED BY:		Emily Hermann						
SAMPLING METHOD:				NORTHING:		3985686.087						
DRILLING METHOD:		DPT		EASTING:		690583.419						
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
5		Sandy Silt, Gray, Brown, Dry,										
		Boring Terminated at 5 Ft-BGS										
10												
15												
20												
25												
30												

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PROJECT:						Durham Parks Waste Delineation							BORING LOG: WD-50							
						East End Park S&ME Project No. 23050630														
DATE DRILLED:			Friday, November 8, 2024							BORING DEPTH (FT):			10							
DRILL RIG:			Geoprobe 7822 DT							WATER LEVEL:										
DRILLER:			Quantex							CAVE-IN DEPTH:										
HAMMER TYPE:			Not Applicable							LOGGED BY:			Emily Hermann							
SAMPLING METHOD:										NORTHING:			3985715.19							
DRILLING METHOD:			DPT							EASTING:			690583.413							
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION											WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
5		Boring Terminated at 10 Ft-BGS																		
10																				
15																				
20																				
25																				
30																				

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PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-53								
East End Park											
S&ME Project No. 23050630											
DATE DRILLED:		Monday, November 11, 2024		BORING DEPTH (FT):		5					
DRILL RIG:		Geoprobe 7822 DT		WATER LEVEL:							
DRILLER:		Quantex		CAVE-IN DEPTH:							
HAMMER TYPE:		Not Applicable		LOGGED BY:		Emily Hermann					
SAMPLING METHOD:				NORTHING:		3985744.933					
DRILLING METHOD:		DPT		EASTING:		690571.489					
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION		WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Fill, Incinerator waste,									
		Sandy Silt, Tan, Dry,									
5		Fill, Incinerator waste,									
		Boring Terminated at 5 Ft-BGS									
10											
15											
20											
25											
30											

PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-54								
East End Park											
S&ME Project No. 23050630											
DATE DRILLED:		Monday, November 11, 2024		BORING DEPTH (FT):		5					
DRILL RIG:		Geoprobe 7822 DT		WATER LEVEL:							
DRILLER:		Quantex		CAVE-IN DEPTH:							
HAMMER TYPE:		Not Applicable		LOGGED BY:		Emily Hermann					
SAMPLING METHOD:				NORTHING:		3985718.294					
DRILLING METHOD:		DPT		EASTING:		690573.107					
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION		WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Fill, Incinerator waste,									
		Sandy Silt, Brown,									
5		Fill, Incinerator waste (large chunks of glass & ash),									
		Boring Terminated at 5 Ft-BGS									
10											
15											
20											
25											
30											

PROJECT:		Durham Parks Waste Delineation			BORING LOG: WD-55							
		East End Park										
		S&ME Project No. 23050630										
DATE DRILLED:		Monday, November 11, 2024			BORING DEPTH (FT):		5					
DRILL RIG:		Geoprobe 7822 DT			WATER LEVEL:							
DRILLER:		Quantex			CAVE-IN DEPTH:							
HAMMER TYPE:		Not Applicable			LOGGED BY:		Emily Hermann					
SAMPLING METHOD:					NORTHING:		3985780.473					
DRILLING METHOD:		DPT			EASTING:		690570.481					
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Fill, Incinerator waste throughout (chunks of glass & ash),										
5		Boring Terminated at 5 Ft-BGS										
10												
15												
20												
25												
30												

PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-56									
East End Park												
S&ME Project No. 23050630												
DATE DRILLED:		Monday, November 11, 2024		BORING DEPTH (FT):		5						
DRILL RIG:		Geoprobe 7822 DT		WATER LEVEL:								
DRILLER:		Quantex		CAVE-IN DEPTH:								
HAMMER TYPE:		Not Applicable		LOGGED BY:		Emily Hermann						
SAMPLING METHOD:				NORTHING:		3985814.396						
DRILLING METHOD:		DPT		EASTING:		690575.414						
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Fill, Incinerator waste,										
		Fill, Silty Sand, Tan, Black, Waste throughout (glass, pieces of ash)										
5		Fill, Incinerator waste,										
		Boring Terminated at 5 Ft-BGS										
10												
15												
20												
25												
30												

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PROJECT: Durham Parks Waste Delineation East End Park S&ME Project No. 23050630			BORING LOG: WD-59									
DATE DRILLED:		Monday, November 11, 2024		BORING DEPTH (FT):		5						
DRILL RIG:		Geoprobe 7822 DT		WATER LEVEL:								
DRILLER:		Quantex		CAVE-IN DEPTH:								
HAMMER TYPE:		Not Applicable		LOGGED BY:		Emily Hermann						
SAMPLING METHOD:				NORTHING:		3985801.172						
DRILLING METHOD:		DPT		EASTING:		690629.41						
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Fill, Incinerator waste,										
		Sandy Clay, Brown, Moist,										
5		Fill, Incinerator waste,										
		Boring Terminated at 5 Ft-BGS										
10												
15												
20												
25												
30												

PROJECT:		Durham Parks Waste Delineation			BORING LOG: WD-60							
		East End Park										
		S&ME Project No. 23050630										
DATE DRILLED:		Monday, November 11, 2024			BORING DEPTH (FT):		10					
DRILL RIG:		Geoprobe 7822 DT			WATER LEVEL:							
DRILLER:		Quantex			CAVE-IN DEPTH:							
HAMMER TYPE:		Not Applicable			LOGGED BY:		Emily Hermann					
SAMPLING METHOD:					NORTHING:		3985780.039					
DRILLING METHOD:		DPT			EASTING:		690632.224					
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Fill, Incinerator waste (ash, glass),										
5		Fill, Incinerator waste (ash, glass),										
10		Boring Terminated at 10 Ft-BGS										
15												
20												
25												
30												

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PROJECT:		Durham Parks Waste Delineation			BORING LOG: WD-62							
		East End Park										
		S&ME Project No. 23050630										
DATE DRILLED:		Monday, November 11, 2024			BORING DEPTH (FT):		5					
DRILL RIG:		Geoprobe 7822 DT			WATER LEVEL:							
DRILLER:		Quantex			CAVE-IN DEPTH:							
HAMMER TYPE:		Not Applicable			LOGGED BY:		Emily Hermann					
SAMPLING METHOD:					NORTHING:		3985775.451					
DRILLING METHOD:		DPT			EASTING:		690686.702					
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Topsoil, Brown,										
		Fill, Incinerator waste (ash, glass),										
		Clay, Brown, Gray, Moist,										
5		Boring Terminated at 5 Ft-BGS										
10												
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PROJECT:						Durham Parks Waste Delineation			BORING LOG: WD-65						
						East End Park S&ME Project No. 23050630									
DATE DRILLED:		Monday, November 11, 2024				BORING DEPTH (FT):		4.5							
DRILL RIG:		Geoprobe 7822 DT				WATER LEVEL:									
DRILLER:		Quantex				CAVE-IN DEPTH:									
HAMMER TYPE:		Not Applicable				LOGGED BY:		Emily Hermann							
SAMPLING METHOD:						NORTHING:		3985740.085							
DRILLING METHOD:		DPT				EASTING:		690651.649							
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION					WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE	
		Topsoil, Brown,													
		Fill, Incinerator waste (large chunks of glass, ash, brick),													
								</							

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PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-67									
East End Park												
S&ME Project No. 23050630												
DATE DRILLED:		Monday, November 11, 2024		BORING DEPTH (FT):		5						
DRILL RIG:		Geoprobe 7822 DT		WATER LEVEL:								
DRILLER:		Quantex		CAVE-IN DEPTH:								
HAMMER TYPE:		Not Applicable		LOGGED BY:		Emily Hermann						
SAMPLING METHOD:				NORTHING:		3985783.443						
DRILLING METHOD:		DPT		EASTING:		690589.603						
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Topsoil, Brown, Dry,										
		Fill, Incinerator waste (chunks of ceramics, glass, ash),										
5		Fill, Incinerator waste,										
		Boring Terminated at 5 Ft-BGS										
10												
15												
20												
25												
30												

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PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-70							
East End Park S&ME Project No. 23050630										
DATE DRILLED:	Monday, November 11, 2024	BORING DEPTH (FT):	5							
DRILL RIG:	Geoprobe 7822 DT	WATER LEVEL:								
DRILLER:	Quantex	CAVE-IN DEPTH:								
HAMMER TYPE:	Not Applicable	LOGGED BY:	Emily Hermann							
SAMPLING METHOD:		NORTHING:	3985790.458							
DRILLING METHOD:	DPT	EASTING:	690477.121							
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Topsoil, Brown, Dry,								
		Fill, Incinerator waste (glass, ash, brick),								
		Clay, Brown, Moist,								
5		Fill, Incinerator waste (glass, ash),								
	Clay, Red, Brown, Moist,									
	Boring Terminated at 5 Ft-BGS									
10										
15										
20										
25										
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PROJECT: Durham Parks Waste Delineation East End Park S&ME Project No. 23050630			BORING LOG: WD-74									
DATE DRILLED:		Friday, November 22, 2024		BORING DEPTH (FT):		5						
DRILL RIG:		Geoprobe 7822 DT		WATER LEVEL:								
DRILLER:		Quantex		CAVE-IN DEPTH:								
HAMMER TYPE:		Not Applicable		LOGGED BY:		Emily Hermann						
SAMPLING METHOD:				NORTHING:		690615.316						
DRILLING METHOD:		DPT		EASTING:		3985649.374						
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Clay, Brown, Some Gravel, Moist,										
5		Fill, Incinerator waste (glass, ash, brick),										
		Boring Terminated at 5 Ft-BGS										
10												
15												
20												
25												
30												

PROJECT: Durham Parks Waste Delineation East End Park S&ME Project No. 23050630			BORING LOG: WD-75									
DATE DRILLED:		Friday, November 22, 2024		BORING DEPTH (FT):		5						
DRILL RIG:		Geoprobe 7822 DT		WATER LEVEL:								
DRILLER:		Quantex		CAVE-IN DEPTH:								
HAMMER TYPE:		Not Applicable		LOGGED BY:		Emily Hermann						
SAMPLING METHOD:				NORTHING:		690605.195						
DRILLING METHOD:		DPT		EASTING:		3985649.985						
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Sand, Tan, Some Gravel, Dry,										
		Fill, Incinerator waste (glass, ash, brick),										
5		Boring Terminated at 5 Ft-BGS										
10												
15												
20												
25												
30												

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PROJECT:			Durham Parks Waste Delineation										
			East End Park										
			S&ME Project No. 23050630			BORING LOG: WD-78							
DATE DRILLED:		Friday, November 22, 2024			BORING DEPTH (FT):		5						
DRILL RIG:		Geoprobe 7822 DT			WATER LEVEL:								
DRILLER:		Quantex			CAVE-IN DEPTH:								
HAMMER TYPE:		Not Applicable			LOGGED BY:		Emily Hermann						
SAMPLING METHOD:					NORTHING:		690624.328						
DRILLING METHOD:		DPT			EASTING:		3985621.181						
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION				WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Clay, Blue, Trace Possible pieces of ash, Dry,											
5		Boring Terminated at 5 Ft-BGS											

PROJECT: Durham Parks Waste Delineation East End Park S&ME Project No. 23050630			BORING LOG: WD-79									
DATE DRILLED:		Friday, November 22, 2024		BORING DEPTH (FT):		5						
DRILL RIG:		Geoprobe 7822 DT		WATER LEVEL:								
DRILLER:		Quantex		CAVE-IN DEPTH:								
HAMMER TYPE:		Not Applicable		LOGGED BY:		Emily Hermann						
SAMPLING METHOD:				NORTHING:		690609.379						
DRILLING METHOD:		DPT		EASTING:		3985612.889						
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
5		Clay, Blue, Dry,										
		Boring Terminated at 5 Ft-BGS										
10												
15												
20												
25												
30												

PROJECT: Durham Parks Waste Delineation East End Park S&ME Project No. 23050630			BORING LOG: WD-80									
DATE DRILLED:		Friday, November 22, 2024		BORING DEPTH (FT):		5						
DRILL RIG:		Geoprobe 7822 DT		WATER LEVEL:								
DRILLER:		Quantex		CAVE-IN DEPTH:								
HAMMER TYPE:		Not Applicable		LOGGED BY:		Emily Hermann						
SAMPLING METHOD:				NORTHING:		690636.588						
DRILLING METHOD:		DPT		EASTING:		3985619.395						
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
5		Fill, Incinerator waste (ash, ceramic, glass),										
		Boring Terminated at 5 Ft-BGS										
10												
15												
20												
25												
30												

[illegible]

PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-82							
East End Park S&ME Project No. 23050630										
DATE DRILLED:	Friday, November 22, 2024		BORING DEPTH (FT):	5						
DRILL RIG:	Geoprobe 7822 DT		WATER LEVEL:							
DRILLER:	Quantex		CAVE-IN DEPTH:							
HAMMER TYPE:	Not Applicable		LOGGED BY:	Emily Hermann						
SAMPLING METHOD:			NORTHING:	690656.648						
DRILLING METHOD:	DPT		EASTING:	3985655.152						
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Sand, Tan,								
5		Fill, Incinerator waste (ash, glass, melted chunks),								
		Boring Terminated at 5 Ft-BGS								
10										
15										
20										
25										
30										

[illegible]

[illegible]

[illegible]

PROJECT:		Durham Parks Waste Delineation			BORING LOG: WD-86							
		East End Park										
		S&ME Project No. 23050630										
DATE DRILLED:		Friday, November 22, 2024			BORING DEPTH (FT):		10					
DRILL RIG:		Geoprobe 7822 DT			WATER LEVEL:							
DRILLER:		Quantex			CAVE-IN DEPTH:							
HAMMER TYPE:		Not Applicable			LOGGED BY:		Emily Hermann					
SAMPLING METHOD:					NORTHING:		690615.895					
DRILLING METHOD:		DPT			EASTING:		3985669.432					
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Fill, Incinerator waste (large chunks glass, ash, brick),										
5		Fill, Incinerator waste (brick, glass, ash),										
10		Boring Terminated at 10 Ft-BGS										
15												
20												
25												
30												

PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-87								
East End Park											
S&ME Project No. 23050630											
DATE DRILLED:		Thursday, February 6, 2025		BORING DEPTH (FT):		3					
DRILL RIG:				WATER LEVEL:							
DRILLER:				CAVE-IN DEPTH:							
HAMMER TYPE:				LOGGED BY:		Connor Hicks					
SAMPLING METHOD:				NORTHING:							
DRILLING METHOD:		Hand Auger		EASTING:							
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION		WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Silty Sand, Black, Some Gravel,									
		Boring Terminated at 3 Ft-BGS									
5											
10											
15											
20											
25											
30											

PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-88								
East End Park											
S&ME Project No. 23050630											
DATE DRILLED:		Thursday, February 6, 2025		BORING DEPTH (FT):		3					
DRILL RIG:				WATER LEVEL:							
DRILLER:				CAVE-IN DEPTH:							
HAMMER TYPE:				LOGGED BY:		Connor Hicks					
SAMPLING METHOD:				NORTHING:							
DRILLING METHOD:		Hand Auger		EASTING:							
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION		WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Silty Sand, Black, Some Gravel,									
		Boring Terminated at 3 Ft-BGS									
5											
10											
15											
20											
25											
30											

PROJECT:			Durham Parks Waste Delineation			BORING LOG: WD-89						
			East End Park									
			S&ME Project No. 23050630									
DATE DRILLED:		Thursday, February 6, 2025			BORING DEPTH (FT):		3					
DRILL RIG:					WATER LEVEL:							
DRILLER:					CAVE-IN DEPTH:							
HAMMER TYPE:					LOGGED BY:		Connor Hicks					
SAMPLING METHOD:					NORTHING:							
DRILLING METHOD:		Hand Auger			EASTING:							
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Silty Sand, Black, Some Gravel,										
		Boring Terminated at 3 Ft-BGS										
5												
10												
15												
20												
25												
30												

PROJECT: Durham Parks Waste Delineation East End Park S&ME Project No. 23050630			BORING LOG: WD-90									
DATE DRILLED:		Thursday, February 6, 2025		BORING DEPTH (FT):		3						
DRILL RIG:				WATER LEVEL:								
DRILLER:				CAVE-IN DEPTH:								
HAMMER TYPE:				LOGGED BY:		Connor Hicks						
SAMPLING METHOD:				NORTHING:								
DRILLING METHOD:		Hand Auger		EASTING:								
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Silty Sand, Black, Some Gravel,										
		Boring Terminated at 3 Ft-BGS										
5												
10												
15												
20												
25												
30												

PROJECT: Durham Parks Waste Delineation			BORING LOG: WD-91								
East End Park											
S&ME Project No. 23050630											
DATE DRILLED:		Thursday, February 6, 2025		BORING DEPTH (FT):		3					
DRILL RIG:				WATER LEVEL:							
DRILLER:				CAVE-IN DEPTH:							
HAMMER TYPE:				LOGGED BY:		Connor Hicks					
SAMPLING METHOD:				NORTHING:							
DRILLING METHOD:		Hand Auger		EASTING:							
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION		WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Silty Sand, Black, Some Gravel,									
		Boring Terminated at 3 Ft-BGS									
5											
10											
15											
20											
25											
30											

PROJECT: Durham Parks Waste Delineation East End Park S&ME Project No. 23050630			BORING LOG: WD-92									
DATE DRILLED:		Thursday, February 6, 2025		BORING DEPTH (FT):		3						
DRILL RIG:				WATER LEVEL:								
DRILLER:				CAVE-IN DEPTH:								
HAMMER TYPE:				LOGGED BY:		Connor Hicks						
SAMPLING METHOD:				NORTHING:								
DRILLING METHOD:		Hand Auger		EASTING:								
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION			WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
		Silty Sand, Black, Some Gravel,										
		Boring Terminated at 3 Ft-BGS										
5												
10												
15												
20												
25												
30												

PROJECT: RI-5 East End Park S&ME Project No. 23050630 RI-5 East End				TEST PIT LOG: TP-1 <i>Sheet 1 of 1</i>	
DATE: 01/27/2025		ELEVATION:		NOTES:	
EQUIPMENT: CAT 315		DATUM: NAVD88			
OPERATOR: Buckeye Elm		DEPTH: 5.0 ft			
HAMMER TYPE:		CLOSURE: Backfilled with Cuttings			
EXCAVATION METHOD:		LOGGED BY: Connor Hicks		LATITUDE: LONGITUDE:	
SAMPLING METHOD:				PROJECT COORDINATE SYSTEM - NAD 1983 StatePlane North Carolina FIPS 3200 Feet	

Depth (feet)	NOTES	DEPOSITIONAL ENVIRONMENT	GRAPHIC	SAMPLE NO. (RECOVERY)	MATERIAL DESCRIPTION	ELEVATION
0					Brown/maroon SILTY SAND mixed with GRAVEL	0
1		1.0			INCINERATOR WASTE (melted metal, glass, ash)	-1
2		Fill				-2
3		3.0			Brown/maroon SILTY SAND	-3
4						-4
5		5.0			Test Pit terminated at 5.0 feet.	-5
6						

GROUNDWATER		DATE	DEPTH (FT)	REMARKS
ATD	Σ			
END OF DRILLING	Σ			
AFTER DRILLING	▼			
AFTER DRILLING	▼			



GROUNDWATER DEPTHS ARE NOT EXACT AND MAY VARY SUBSTANTIALLY FROM THOSE INDICATED. ATD = AT TIME OF DRILLING
 LL=Liquid Limit, PL = Plastic Limit, NMC = Natural Moisture Content, PPV = Pocket Penetrometer (tsf), PTV = Pocket Torvane (tsf)

PROJECT: RI-5 East End Park S&ME Project No. 23050630 RI-5 East End				TEST PIT LOG: TP-2 <i>Sheet 1 of 1</i>	
DATE: 01/27/2025		ELEVATION:		NOTES:	
EQUIPMENT: CAT 315		DATUM: NAVD88			
OPERATOR: Buckeye Elm		DEPTH: 5.0 ft			
HAMMER TYPE:		CLOSURE: Backfilled with Cuttings			
EXCAVATION METHOD:		LOGGED BY: Connor Hicks		LATITUDE: LONGITUDE:	
SAMPLING METHOD:				PROJECT COORDINATE SYSTEM - NAD 1983 StatePlane North Carolina FIPS 3200 Feet	

Depth (feet)	NOTES	DEPOSITIONAL ENVIRONMENT	GRAPHIC	SAMPLE NO. (RECOVERY)	MATERIAL DESCRIPTION	ELEVATION
0					Brown SILTY SAND, lots of gravel and fill material	0
1		1.0			INCINERATOR WASTE (glass, ash, brick, ceramic, metal)	-1
2						-2
3		Fill				-3
4		4.0				-4
5		5.0			Test Pit terminated at 5.0 feet.	-5
6						

GROUNDWATER		DATE	DEPTH (FT)	REMARKS
ATD	Σ			
END OF DRILLING	Σ			
AFTER DRILLING	▼			
AFTER DRILLING	▼			



GROUNDWATER DEPTHS ARE NOT EXACT AND MAY VARY SUBSTANTIALLY FROM THOSE INDICATED. ATD = AT TIME OF DRILLING
 LL=Liquid Limit, PL = Plastic Limit, NMC = Natural Moisture Content, PPV = Pocket Penetrometer (tsf), PTV = Pocket Torvane (tsf)

PROJECT: RI-5 East End Park S&ME Project No. 23050630 RI-5 East End				TEST PIT LOG: TP-3 Sheet 1 of 1	
DATE: 01/27/2025		ELEVATION:		NOTES:	
EQUIPMENT: CAT 315		DATUM: NAVD88			
OPERATOR: Buckeye Elm		DEPTH: 4.5 ft			
HAMMER TYPE:		CLOSURE: Backfilled with Cuttings			
EXCAVATION METHOD:		LOGGED BY: Connor Hicks		LATITUDE: LONGITUDE:	
SAMPLING METHOD:				PROJECT COORDINATE SYSTEM - NAD 1983 StatePlane North Carolina FIPS 3200 Feet	

Depth (feet)	NOTES	DEPOSITIONAL ENVIRONMENT	GRAPHIC	SAMPLE NO. (RECOVERY)	MATERIAL DESCRIPTION	ELEVATION
0					Stained SOIL with petroleum odors	0
1		1.0			"Spill layer" - Black SOIL with oily smell	-1
		1.5			Green stained CLAY	
2						-2
3						-3
4		4.0			Brown SILTY SAND with groundwater (rainbow sheen)	-4
		4.5			Test Pit terminated at 4.5 feet.	
5						

GROUNDWATER		DATE	DEPTH (FT)	REMARKS
ATD	Σ			
END OF DRILLING	Σ		4.5	
AFTER DRILLING	▼			
AFTER DRILLING	▼			

GROUNDWATER DEPTHS ARE NOT EXACT AND MAY VARY SUBSTANTIALLY FROM THOSE INDICATED. ATD = AT TIME OF DRILLING
LL=Liquid Limit, PL = Plastic Limit, NMC = Natural Moisture Content, PPV = Pocket Penetrometer (tsf), PTV = Pocket Torvane (tsf)

PROJECT: RI-5 East End Park S&ME Project No. 23050630 RI-5 East End				TEST PIT LOG: TP-4 <i>Sheet 1 of 1</i>	
DATE: 01/27/2025		ELEVATION:		NOTES:	
EQUIPMENT: CAT 315		DATUM: NAVD88			
OPERATOR: Buckeye Elm		DEPTH: 5.0 ft			
HAMMER TYPE:		CLOSURE: Backfilled with Cuttings			
EXCAVATION METHOD:		LOGGED BY: Connor Hicks		LATITUDE: LONGITUDE:	
SAMPLING METHOD:				PROJECT COORDINATE SYSTEM - NAD 1983 StatePlane North Carolina FIPS 3200 Feet	

Depth (feet)	NOTES	DEPOSITIONAL ENVIRONMENT	GRAPHIC	SAMPLE NO. (RECOVERY)	MATERIAL DESCRIPTION	ELEVATION	
0					Brown SILTY SAND, moist, waste throughout	0	
1							-1
2		2.0				INCINERATOR WASTE (brick, glass, ash) - petroleum odor	-2
3		3.0				Brown SILTY SAND, moist, waste throughout	-3
4						-4	
5		5.0			Test Pit terminated at 5.0 feet.	-5	
6							

GROUNDWATER		DATE	DEPTH (FT)	REMARKS
ATD	Σ			
END OF DRILLING	Σ			
AFTER DRILLING	Σ			
AFTER DRILLING	Σ			



GROUNDWATER DEPTHS ARE NOT EXACT AND MAY VARY SUBSTANTIALLY FROM THOSE INDICATED. ATD = AT TIME OF DRILLING
 LL=Liquid Limit, PL = Plastic Limit, NMC = Natural Moisture Content, PPV = Pocket Penetrometer (tsf), PTV = Pocket Torvane (tsf)

PROJECT: RI-5 East End Park S&ME Project No. 23050630 RI-5 East End				TEST PIT LOG: TP-5 <i>Sheet 1 of 1</i>	
DATE: 01/27/2025		ELEVATION:		NOTES:	
EQUIPMENT: CAT 315		DATUM: NAVD88			
OPERATOR: Buckeye Elm		DEPTH: 4.0 ft			
HAMMER TYPE:		CLOSURE: Backfilled with Cuttings			
EXCAVATION METHOD:		LOGGED BY: Connor Hicks		LATITUDE: LONGITUDE:	
SAMPLING METHOD:				PROJECT COORDINATE SYSTEM - NAD 1983 StatePlane North Carolina FIPS 3200 Feet	

Depth (feet)	NOTES	DEPOSITIONAL ENVIRONMENT	GRAPHIC	SAMPLE NO. (RECOVERY)	MATERIAL DESCRIPTION	ELEVATION
0					Gravel fill with grey SAND	0
1		1.0			Brick red CLAY	-1
2						-2
3		2.5			Blue grey CLAY with petroleum odor, PID: 102	-3
4		4.0			Test Pit terminated at 4.0 feet.	-4
5						

GROUNDWATER		DATE	DEPTH (FT)	REMARKS
ATD	Σ			
END OF DRILLING	Σ		4.0	
AFTER DRILLING	▼			
AFTER DRILLING	▼			

GROUNDWATER DEPTHS ARE NOT EXACT AND MAY VARY SUBSTANTIALLY FROM THOSE INDICATED. ATD = AT TIME OF DRILLING
 LL=Liquid Limit, PL = Plastic Limit, NMC = Natural Moisture Content, PPV = Pocket Penetrometer (tsf), PTV = Pocket Torvane (tsf)

PROJECT: RI-5 East End Park S&ME Project No. 23050630 RI-5 East End				TEST PIT LOG: TP-6 <i>Sheet 1 of 1</i>	
DATE: 01/28/2025		ELEVATION:		NOTES:	
EQUIPMENT: CAT 315		DATUM: NAVD88			
OPERATOR: Buckeye Elm		DEPTH: 3.0 ft			
HAMMER TYPE:		CLOSURE: Backfilled with Cuttings			
EXCAVATION METHOD:		LOGGED BY: Emily Hermann		LATITUDE: LONGITUDE:	
SAMPLING METHOD:				PROJECT COORDINATE SYSTEM - NAD 1983 StatePlane North Carolina FIPS 3200 Feet	

Depth (feet)	NOTES	DEPOSITIONAL ENVIRONMENT	GRAPHIC	SAMPLE NO. (RECOVERY)	MATERIAL DESCRIPTION	ELEVATION
0					Brown SILTY SAND	0
0.5					Pieces of glass, found old water line	
1						-1
2						-2
3					Test Pit terminated at 3.0 feet.	-3
4						

GROUNDWATER		DATE	DEPTH (FT)	REMARKS
ATD	Σ			
END OF DRILLING	Σ			
AFTER DRILLING	▼			
AFTER DRILLING	▼			



GROUNDWATER DEPTHS ARE NOT EXACT AND MAY VARY SUBSTANTIALLY FROM THOSE INDICATED. ATD = AT TIME OF DRILLING
 LL=Liquid Limit, PL = Plastic Limit, NMC = Natural Moisture Content, PPV = Pocket Penetrometer (tsf), PTV = Pocket Torvane (tsf)

PROJECT: RI-5 East End Park S&ME Project No. 23050630 RI-5 East End				TEST PIT LOG: TP-7 <i>Sheet 1 of 1</i>	
DATE: 01/28/2025		ELEVATION:		NOTES:	
EQUIPMENT: CAT 315		DATUM: NAVD88			
OPERATOR: Buckeye Elm		DEPTH: 6.0 ft			
HAMMER TYPE:		CLOSURE: Backfilled with Cuttings			
EXCAVATION METHOD:		LOGGED BY: Emily Hermann		LATITUDE: LONGITUDE:	
SAMPLING METHOD:				PROJECT COORDINATE SYSTEM - NAD 1983 StatePlane North Carolina FIPS 3200 Feet	

Depth (feet)	NOTES	DEPOSITIONAL ENVIRONMENT	GRAPHIC	SAMPLE NO. (RECOVERY)	MATERIAL DESCRIPTION	ELEVATION
0					Red-brown SILTY SAND	0
		0.5			INCINERATOR WASTE (ash, brick, glass)	
1						-1
2						-2
3		Fill				-3
4						-4
5						-5
6		6.0			Test Pit terminated at 6.0 feet.	-6
7						

GROUNDWATER		DATE	DEPTH (FT)	REMARKS
ATD	Σ			
END OF DRILLING	Σ			
AFTER DRILLING	Σ			
AFTER DRILLING	Σ			

GROUNDWATER DEPTHS ARE NOT EXACT AND MAY VARY SUBSTANTIALLY FROM THOSE INDICATED. ATD = AT TIME OF DRILLING
 LL=Liquid Limit, PL = Plastic Limit, NMC = Natural Moisture Content, PPV = Pocket Penetrometer (tsf), PTV = Pocket Torvane (tsf)

PROJECT: RI-5 East End Park S&ME Project No. 23050630 RI-5 East End				TEST PIT LOG: TP-8 <i>Sheet 1 of 1</i>	
DATE: 01/28/2025		ELEVATION:		NOTES:	
EQUIPMENT: CAT 315		DATUM: NAVD88			
OPERATOR: Buckeye Elm		DEPTH: 3.0 ft			
HAMMER TYPE:		CLOSURE: Backfilled with Cuttings			
EXCAVATION METHOD:		LOGGED BY: Emily Hermann		LATITUDE: LONGITUDE:	
SAMPLING METHOD:				PROJECT COORDINATE SYSTEM - NAD 1983 StatePlane North Carolina FIPS 3200 Feet	

Depth (feet)	NOTES	DEPOSITIONAL ENVIRONMENT	GRAPHIC	SAMPLE NO. (RECOVERY)	MATERIAL DESCRIPTION	ELEVATION
0					Red-brown CLAYEY SAND	0
0.5					INCINERATOR WASTE (ash, brick, glass)	
1						-1
2		Fill				-2
3					Test Pit terminated at 3.0 feet.	-3
4						

GROUNDWATER	DATE	DEPTH (FT)	REMARKS
ATD			
END OF DRILLING			
AFTER DRILLING			
AFTER DRILLING			



GROUNDWATER DEPTHS ARE NOT EXACT AND MAY VARY SUBSTANTIALLY FROM THOSE INDICATED. ATD = AT TIME OF DRILLING
 LL=Liquid Limit, PL = Plastic Limit, NMC = Natural Moisture Content, PPV = Pocket Penetrometer (tsf), PTV = Pocket Torvane (tsf)

PROJECT: RI-5 East End Park S&ME Project No. 23050630 RI-5 East End				TEST PIT LOG: TP-9 <i>Sheet 1 of 1</i>	
DATE: 01/28/2025		ELEVATION:		NOTES:	
EQUIPMENT: CAT 315		DATUM: NAVD88			
OPERATOR: Buckeye Elm		DEPTH: 7.0 ft			
HAMMER TYPE:		CLOSURE: Backfilled with Cuttings			
EXCAVATION METHOD:		LOGGED BY: Connor Hicks		LATITUDE: LONGITUDE:	
SAMPLING METHOD:				PROJECT COORDINATE SYSTEM - NAD 1983 StatePlane North Carolina FIPS 3200 Feet	

Depth (feet)	NOTES	DEPOSITIONAL ENVIRONMENT	GRAPHIC	SAMPLE NO. (RECOVERY)	MATERIAL DESCRIPTION	ELEVATION
0					Brown SILTY SAND	0
1		1.0			INCINERATOR WASTE (ash, glass, ash, ceramic, brick)	-1
2		2.0			Brown SILTY SAND	-2
3						-3
4						-4
5						-5
6						-6
7		7.0			Test Pit terminated at 7.0 feet.	-7
8						

GROUNDWATER		DATE	DEPTH (FT)	REMARKS
ATD	Σ			
END OF DRILLING	Σ			
AFTER DRILLING	Σ			
AFTER DRILLING	Σ			

GROUNDWATER DEPTHS ARE NOT EXACT AND MAY VARY SUBSTANTIALLY FROM THOSE INDICATED. ATD = AT TIME OF DRILLING
 LL=Liquid Limit, PL = Plastic Limit, NMC = Natural Moisture Content, PPV = Pocket Penetrometer (tsf), PTV = Pocket Torvane (tsf)

Appendix III – Photographs



			1/27/2025
1	Location / Orientation	TP-1	
	Remarks	View of the test pit with waste visible.	
			1/27/2025
2	Location / Orientation	TP-2	
	Remarks	View of TP-2 with waste visible.	



			1/27/2025
3	Location / Orientation	TP-3	
	Remarks	View of TP-3 and petroleum staining.	
			1/27/2025
4	Location / Orientation	TP-4	
	Remarks	View of TP-4 waste layer.	



			1/27/2025
			Photographer: Connor Hicks
5	Location / Orientation	TP-5	
	Remarks	View of TP-5.	
			1/28/2025
			Photographer: Connor Hicks
6	Location / Orientation	TP-6	
	Remarks	View of TP-6.	



			1/28/2025
7	Location / Orientation	TP-7	
	Remarks	View of waste in TP-7.	
			1/28/2025
8	Location / Orientation	TP-8	
	Remarks	View of waste TP-8.	



			1/28/2025
			Photographer: Connor Hicks
9	Location / Orientation	TP-9	
	Remarks	View of TP-9.	

Appendix IV – Laboratory Analytical Results and Chain of Custody Forms



EMSL Analytical, Inc.

706 Gralin Street, Kernersville, NC, 27284
Telephone: (336)-992-1025 Fax:(336)-992-4175
EMSL-KE-02

EMSL Order ID: 022450675
LIMS Reference ID: KC50675
EMSL Customer ID: SMEI60

Attention: J Paul
S&ME, Inc. [SMEI60]
3201 Spring Forest Road
Raleigh, NC 27616
(919) 872-2660
jpaul@smeinc.com

Project Name: City of Durham Parks 23050630

Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 12/06/2024 09:30
Reported: 12/09/2024 09:44

Analytical Results

Analyte	Results	RL	Volume(L)	Prep Date & Tech	Prep Method	Analysis Date & Analyst	Analytical Method	Q	DF
Client Sample ID: EE-1/middle of area							Date Sampled: 11/22/24		
Matrix: Cassettes							LIMS Reference ID: KC50675-01		
Lead	<14 ug/m³	14 ug/m³	296	12/06/24 JC	NIOSH 7082	12/06/24 JC	NIOSH 7082		1
Sample Comments:									

**EMSL Analytical, Inc.**

706 Gralin Street, Kernersville, NC, 27284
Telephone: (336)-992-1025 Fax:(336)-992-4175
EMSL-KE-02

EMSL Order ID: 022450675
LIMS Reference ID: KC50675
EMSL Customer ID: SMEI60

Attention: J Paul
S&ME, Inc. [SMEI60]
3201 Spring Forest Road
Raleigh, NC 27616
(919) 872-2660
jpaul@smeinc.com

Project Name: City of Durham Parks 23050630

Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 12/06/2024 09:30
Reported: 12/09/2024 09:44

Certified Analyses included in this Report

Analyte	Certifications
NIOSH 7082 in Cassettes	
Lead	02-AIHA ELLAP

List of Certifications

Code	Description	Number	Expires
02-AIHA ELLAP	American Industrial Hygiene Association (AIHA-LAP) - ELLAP	102564	06/01/2026
02-AIHA EMLAP	American Industrial Hygiene Association (AIHA-LAP) - EMLAP	102564	06/01/2026

Please see the specific Field of Testing (FOT) on www.emsl.com <<http://www.emsl.com>> for a complete listing of parameters for which EMSL is certified.

Notes and Definitions

Item	Definition
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
NR	Spike/Surrogate showed no recovery.
Q	Qualifier
RL	Reporting Limit
Wet	Sample is not dry weight corrected.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

James Cole Laboratory Manager or other approved signatory

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Analysis following EMSL SOP for the Determination of Environmental Lead by FLAA. The laboratory has a reporting limit of 4 µg/filter and is not responsible for any result or reporting limit provided in µg/m3 since it is dependent upon a volume value provided by non-lab personnel. A "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty and definitions of modifications are available upon request. Results in this report are not blank corrected unless specified.



EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

Lead Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: CinnaminsonLeadLab@emsl.com

LC50675

Customer Information Customer ID: _____ Company Name: <u>SIME Inc</u> Contact Name: <u>Jerry Paul</u> Street Address: <u>2724 Discovery Dr</u> City, State, Zip: <u>Raleigh, NC 27616</u> Country: <u>US</u> Phone: <u>919-801-6482</u> Email(s) for Report: <u>jppaul@smeinc.com</u>		Billing Information Billing ID: <u>SIME inc</u> Company Name: _____ Billing Contact: <u>same</u> Street Address: _____ City, State, Zip: _____ Country: _____ Phone: _____ Email(s) for Invoice: _____	
Project Information			
Project Name/No: <u>City of Durham Parks 23050630</u>		Purchase Order: _____	
EMSL LIMS Project ID: _____ (If applicable, EMSL will provide)		US State where samples collected: <u>NC</u>	
Sampled By Name: <u>Emily Hermann</u>		Sampled By Signature: _____	
Turn-Around-Time (TAT) ☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 32 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only, samples must be submitted by 11:30am.			
MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT
CHIPS ☐ % by wt. ☐ ppm (mg/kg) ☐ mg/cm ²	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)
Reporting Limit based on a minimum 0.25g sample weight	SW 846-6010D	ICP-OES	0.0004% (4ppm)
	NIOSH 7082	Flame Atomic Absorption	4µg/filter
	NIOSH 7300M / NIOSH 7303M	ICP-OES	0.5µg/filter
	NIOSH 7300M / NIOSH 7303M	ICP-MS	0.05µg/filter
AIR			
WIPE ☐ ASTM ☐ NON-ASTM	SW 846-7000B	Flame Atomic Absorption	10µg/wipe
If no box is checked, non-ASTM Wipe is assumed	SW 846-6010D	ICP-OES	1.0µg/wipe
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)
	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)
TTLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	40mg/kg (ppm)
	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)
STLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)
	SW 846-6010D*	ICP-OES	2mg/kg (ppm)
Wastewater	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)
Unpreserved ☐	EPA 200.7	ICP-OES	0.020 mg/L (ppm)
Preserved with HNO ₃ ☐ PH<2	EPA 200.5	ICP-OES	0.003 mg/L (ppm)
Drinking Water	EPA 200.8	ICP-MS	0.001 mg/L (ppm)
Unpreserved ☐	40 CFR Part 50	ICP-OES	12 µg/filter
Preserved with HNO ₃ ☐ PH<2			
TSP/SPM Filter			
Other:			

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
EE-1	middle of area	296 L	11/22/24

Method of Shipment: <u>FEDEX</u>		Sample Condition Upon Receipt: _____	
Relinquished by: <u>[Signature]</u>	Date/Time: <u>12/5/24 12:10</u>	Received by: <u>[Signature]</u>	Date/Time: <u>12/5/24 12:12</u>
Relinquished by: _____	Date/Time: _____	Received by: <u>[Signature]</u>	Date/Time: <u>12/6/24 9:30</u>

Controlled Document - COC-25 Lead R15 4/5/2021

*6010C Available Upon Request

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

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**EMSL Analytical, Inc.**

706 Gralin Street, Kernersville, NC, 27284
Telephone: (336)-992-1025 Fax:(336)-992-4175
EMSL-KE-02

EMSL Order ID: 022550179
LIMS Reference ID: KD50179
EMSL Customer ID: SMEI60

Attention: Emily Hermann
S&ME, Inc. [SMEI60]
3201 Spring Forest Road
Raleigh, NC 27616
(919) 872-2660
emilyhermann@smeinc.com

Project Name: East End Park (City of Durham Parks)

Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 02/04/2025 09:10
Reported: 02/05/2025 08:02

Analytical Results

Analyte	Results	RL	Volume(L)	Prep Date & Tech	Prep Method	Analysis Date & Analyst	Analytical Method	Q	DF
Client Sample ID: 823-Pb-01/Work Zone							Date Sampled: 01/28/25		
Matrix: Cassettes							LIMS Reference ID: KD50179-01		
Lead	<5.0 ug/m ³	5.0 ug/m ³	634	02/04/25 JC	NIOSH 7082	02/04/25 JC	NIOSH 7082		1
Sample Comments:									

**EMSL Analytical, Inc.**

706 Gralin Street, Kernersville, NC, 27284
Telephone: (336)-992-1025 Fax:(336)-992-4175
EMSL-KE-02

EMSL Order ID: 022550179
LIMS Reference ID: KD50179
EMSL Customer ID: SMEI60

Attention: Emily Hermann
S&ME, Inc. [SMEI60]
3201 Spring Forest Road
Raleigh, NC 27616
(919) 872-2660
emilyhermann@smeinc.com

Project Name: East End Park (City of Durham Parks)

Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 02/04/2025 09:10
Reported: 02/05/2025 08:02

Certified Analyses included in this Report

Analyte	Certifications
NIOSH 7082 in Cassettes	
Lead	02-AIHA ELLAP

List of Certifications

Code	Description	Number	Expires
02-AIHA ELLAP	American Industrial Hygiene Association (AIHA-LAP) - ELLAP	102564	06/01/2026
02-AIHA EMLAP	American Industrial Hygiene Association (AIHA-LAP) - EMLAP	102564	06/01/2026

Please see the specific Field of Testing (FOT) on www.emsl.com <<http://www.emsl.com>> for a complete listing of parameters for which EMSL is certified.

Notes and Definitions

Item	Definition
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
NR	Spike/Surrogate showed no recovery.
Q	Qualifier
RL	Reporting Limit
Wet	Sample is not dry weight corrected.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

James Cole Laboratory Manager or other approved signatory

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EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: CinnaminsonLeadLab@emsl.com

1050179

Customer Information	Customer ID:		Billing Information	Billing ID:	
	Company Name:	STME		Company Name:	STME
	Contact Name:	Emily Hermann		Billing Contact:	
	Street Address:	3201 Spring Forest Rd		Street Address:	
	City, State, Zip:	Raleigh NC 27611		City, State, Zip:	
	Country:			Country:	
	Phone:			Phone:	
	Email(s) for Report:	emilyhermann@stmeinc.com		Email(s) for Invoice:	

Project Information		Purchase Order:	
Project Name/No:	East End Park (City of Durham Parks)		
EMSL LIMS Project ID:		US State where samples collected:	
(If applicable, EMSL will provide)		State of Connecticut (CT) must select project location:	
		☐ Commercial (Taxable)	☐ Residential (Non-Taxable)
Sampled By Name:		Sampled By Signature:	
		No. of Samples in Shipment:	

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 32 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT	SELECTION
CHIPS ☐ % by wt. ☐ ppm (mg/kg) ☐ mg/cm ²	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	☐
Reporting Limit based on a minimum 0.25g sample weight	SW 846-6010D	ICP-OES	0.0004% (4ppm)	☒
	NIOSH 7082	Flame Atomic Absorption	4µg/filter	☒
AIR	NIOSH 7300M / NIOSH 7303M	ICP-OES	0.5µg/filter	☐
	NIOSH 7300M / NIOSH 7303M	ICP-MS	0.05µg/filter	☐
WIPE ☐ ASTM ☐ NON-ASTM	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	☐
If no box is checked, non-ASTM Wipe is assumed	SW 846-6010D	ICP-OES	1.0µg/wipe	☐
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
TTLIC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	40mg/kg (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
STLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
Wastewater	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
Unpreserved ☐				☐
Preserved with HNO ₃ ☐ PH<2	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Drinking Water	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
Unpreserved ☐				☐
Preserved with HNO ₃ ☐ PH<2	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
Other:				☐

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
823-Pb-01	WORK ZONE	634	1/28/25

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time: 2/3/25	Received by:	Date/Time: 2/3/25 9:43
Relinquished by:	Date/Time:	Received by:	Date/Time: 2/4/25 0910

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*6010C Available Upon Request

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Lead Chain of Custody

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200 Route 130 North
Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: CinnaminsonLeadLab@emsl.com

1050179

Customer Information	Customer ID:	Billing ID:	
	Company Name: <u>STME</u>	Company Name: <u>STME</u>	
	Contact Name: <u>Emily Hermann</u>	Billing Contact:	
	Street Address: <u>3201 Spring Forest Rd</u>	Street Address:	
	City, State, Zip: <u>Raleigh NC 27611</u> Country:	City, State, Zip: Country:	
	Phone:	Phone:	
Email(s) for Report: <u>emilyhermann@stmeinc.com</u>		Email(s) for Invoice:	

Project Information		Purchase Order:
Project Name/No: <u>East End Park (City of Durham Parks)</u>		
EMSL LIMS Project ID: (If applicable, EMSL will provide)	US State where samples collected:	State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)
Sampled By Name:	Sampled By Signature:	No. of Samples in Shipment:

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 32 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT	SELECTION
CHIPS ☐ % by wt. ☐ ppm (mg/kg) ☐ mg/cm ²	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	☐
Reporting Limit based on a minimum 0.25g sample weight	SW 846-6010D	ICP-OES	0.0004% (4ppm)	☐
AIR	NIOSH 7082	Flame Atomic Absorption	4µg/filter	☒
	NIOSH 7300M / NIOSH 7303M	ICP-OES	0.5µg/filter	☐
	NIOSH 7300M / NIOSH 7303M	ICP-MS	0.05µg/filter	☐
WIPE ☐ ASTM ☐ NON-ASTM	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	☐
If no box is checked, non-ASTM Wipe is assumed	SW 846-6010D	ICP-OES	1.0µg/wipe	☐
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
SPLP	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
TTLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	40mg/kg (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
STLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
Wastewater				
Unpreserved ☐	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Preserved with HNO3 ☐ PH<2	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
Drinking Water				
Unpreserved ☐	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
Preserved with HNO3 ☐ PH<2				☐
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
Other:				☐

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
823-Pb-01	WORK ZONE	634	1/28/25

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2/3/25</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/3/25 9:43</u>
Relinquished by:	Date/Time:	Received by:	Date/Time: <u>2/4/25 0910</u>

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