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July 16, 2024

Ramboll
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Attn: Andy Philips, Sr. Project Manager
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Re: Geotechnical Data Report – Third Phase
Micron Campus
Clay, New York
CME Report No. 28062B-04-0724
Page 1 of 4

1.0 INTRODUCTION

CME Associates, Inc. (CME) was retained by Ramboll (Client) to provide subsurface exploration and geotechnical services for the subject project. In Spring 2024, CME conducted a limited subsurface exploration at the subject project site as part of the third phase exploration program.

The Scope of Basic Services and this report have been provided pursuant to CME Proposal/Agreement No.: 05.7126, Addendum 3, dated 04/07/2023, authorized by Client via Ramboll PO# 1950006347, dated 04/14/2023, and subsequent CME Change Order No. 2, authorized via Ramboll PO# 1950007864, dated 03/25/2024. This report provides a summary of the third phase exploration activities conducted at the subject project site.

Please note, the first phase exploration at this site was conducted by CME in May/June 2023 and CME's deliverables consisted of the previously issued *Geotechnical Data Report - Revision 1*, labeled CME Report Number: 28062B-01-0523R1, dated 06/20/2023. The second phase exploration at this site was conducted by CME in September/October 2023 and CME's deliverables consisted of the previously issued *Geotechnical Data Report - Second Phase*, labeled CME Report Number: 28062B-03-1223, dated 12/08/2023.

2.0 EXPLORATION METHODOLOGY

2.1 Exploration Layout and Utility Clearance

The exploration locations were selected by the Client and staked by Thew Associates (Thew). Following the field stakeout, CME contacted UDig NY to clear public utilities at the exploration locations. Private utilities at the exploration locations were cleared by Thew. No utility conflicts were noted at the exploration locations.

The attached *Exploration Location Plans* depict the approximate locations of the third phase explorations. Elevation at grade at the exploration locations, along with Northing and Easting coordinates, was provided by Thew. Please see the attached *Elevation and Coordinates Tables* prepared using the survey data provided by Thew.

A New York State Certified Woman-Owned Business Enterprise (WBE)

2.2 Test Borings

A total of 134 Test Borings were completed by CME and a Subcontractor to CME. The Test Borings were advanced using either a Central Mine Equipment Model 550X, Model 55, or Model 45, ATV-mounted, rotary exploration drill rig, equipped with 3-1/4" I.D. hollow stem augers. Soil sampling was conducted using a 140-pound hammer dropping through 30 inches to drive a 2" O.D. split barrel sampler in general conformance with ASTM Standard Practice D1586. Rock coring was performed in general conformance with ASTM Standard Practice D2113. Undisturbed Shelby Tube sampling was conducted in general conformance with ASTM Standard Practice D1587. All Borings were backfilled with auger cuttings to nearly match existing grades.

Soil samples were logged and visually classified in the field by the Driller or an on-site Geologist, and a portion of each soil sample was placed and sealed in a glass jar. Bedrock cores were placed and secured in a wooden box. The soil and rock classifications were later reviewed by a CME Engineer in CME's East Syracuse AASHTO re:source¹ Accredited Laboratory. The visual soil classifications were made using a modified Burmister Classification System, as practiced by CME, and as generally described in the attached document entitled *General Information & Key to the Test Boring Logs*. The *Test Boring Logs* and *Bedrock Core Photographs* are also attached to this report.

2.3 Auger Probes

A total of 5 Auger Probes were completed by CME at explorations locations labeled B-522, B-524, B-525, B-527, and B-528. The Auger Probes were advanced to depths where auger refusal was encountered on probable bedrock. The Auger Probes were advanced using a Central Mine Equipment Model 550X, ATV-mounted, rotary exploration drill rig, equipped with 3-1/4" I.D. hollow stem augers. The *Auger Probe Logs* are attached to this report.

2.4 Groundwater Monitoring Wells

A total of 9 Groundwater Monitoring Wells, labeled W-10, W-11, W-12, W-13, W-14, W-16, W-17, W-18, and W-19, were installed in or near Test Borings B-505, B-522, B-546, B-557, B-564, B-604, B-618, B-676, and B-683, respectively. Please refer to the attached *Groundwater Monitoring Well Logs* for details of the well installation.

As part of the first phase exploration, 3 Groundwater Monitoring Wells, labeled W-1, W-2 and W-3, were installed in or near Test Borings B-129, B-24, and B-227, respectively. As part of the second phase exploration, 6 Groundwater Monitoring Wells, labeled W-4, W-5, W-6, W-7, W-8 and W-9, were installed in or near Test Borings B-337, B-391, B-370, B-400, B-420, and B-422, respectively.

Periodic monitoring of the groundwater level in the wells was performed by CME. Please refer to the attached *Groundwater Observation Summary Table* for groundwater levels observed, thus far.

2.5 Infiltration Testing

A total of 5 Infiltration Tests, labeled IT-TP301, IT-TP302, IT-TP305, IT-B565, and IT-B611, were performed. The tests were performed in general conformance with the requirements of the New York State Stormwater Management Design Manual, Appendix D: Infiltration Testing. The test details and results are given in the attached *Infiltration Test Reports*.

¹ AASHTO re:source – American Association of State Highway & Transportation Officials (AASHTO) Materials Reference Laboratory, a Federal Agency having jurisdiction to assess laboratory competency according to the Standards of the United States of America. CME East Syracuse accreditation includes testing of Portland Cement Concrete, Aggregate and Soil Materials. www.AASHTOresource.org.

2.6 Test Pits

A total of 17 Test Pits were excavated using a Link Belt Model LNK 27 excavator, equipped with a 24-inch-wide general-purpose bucket. The Test Pits were excavated and backfilled by a Subcontractor to CME. The backfill consisted of excavated materials placed in 2 to 3 feet thick lifts, with each lift compacted using the excavator bucket. CME Engineer Astitwa Sharma, E.I.T. was on-site to observe the Test Pit excavation, take photographs, and prepare Test Pit Logs. The *Test Pit Logs* and *Test Pit Photographs* are attached to this report.

Soil samples were logged and visually classified in the field by Astitwa Sharma. The visual soil classifications were made using the modified Burmister Classification System.

In-situ Vane Shear Tests were performed at various depths in the Test Pits utilizing a Humbolt H-60 field testing apparatus. Pocket Penetrometer Testing was also performed in the Test Pits. Please refer to the attached *Vane Shear Test and Pocket Penetrometer Test Summary Tables* for test results.

2.7 Field Soil Resistivity Testing

Field soil resistivity testing at a total of 24 survey points identified on the attached *Exploration Location Plans* were completed by CME. CME utilized a Miller 400D Digital Soil Resistivity Meter to conduct soil resistivity testing. At each point the line of probes were oriented to avoid trees and to minimize grade elevation change. All lines were surveyed in areas free of standing water or mud. The soil resistivity tests were performed in general conformance with ASTM G57 Standard Test Method for Measurement of Soil Resistivity using the Wenner Four – Electrode Method. Probe spacings of 4 feet to 20 feet were used along all survey lines. Probe depths were approximately 2.5 inches.

Field soil resistivity data and calculated Resistivity ($\Omega \cdot \text{cm}$) are provided in the attached *Field Soil Resistivity Observations Summary Table*. Please see attached *Field Soil Resistivity Photographs* for groundcover conditions at the time of survey.

2.8 Laboratory Testing

Laboratory testing was performed on selected soil samples, consisting of Natural Moisture Content, Atterberg Limits, Particle Size Analysis, One-Dimensional Consolidation, Unconfined Compressive Strength of Cohesive Soil, Moisture-Density Relationship (Proctor Compaction), Rock Core Compression, and California Bearing Ratio (CBR), in CME's East Syracuse Laboratory. Please refer to the attached *Laboratory Test Summary Report* for test methods and results.

3.0 STANDARD OF CARE

CME endeavored to conduct services identified herein in a manner consistent with that level of care and skill ordinarily exercised by members of the industry currently practicing in the same locality and under similar conditions as this project. No warranty, either expressed or implied, is made or intended by CME's proposal, contract, and written or oral reports, all of which warranties are hereby expressly disclaimed. CME shall not be responsible for the acts or omissions of the Client, its contractors, agents, and consultants. CME may rely upon information supplied by Client, its contractors, agents, and consultants or information available from generally accepted reputable sources, without independent verification, and CME assumes no responsibility for the accuracy thereof.

4.0 CLOSING

CME's services have been provided according to the requirements of the referenced CME Proposal/Agreement. No other representations, expressed or implied, are intended or made with respect to the information provided herein, including but not limited to, its suitability for use by others.

Respectfully Submitted,

CME Associates, Inc.

A handwritten signature in black ink, appearing to read "Anas N. Anasthas", written over a horizontal line.

Anas N. Anasthas, P.E.
Senior Geotechnical Engineer

Reviewed by:

CME Associates, Inc.

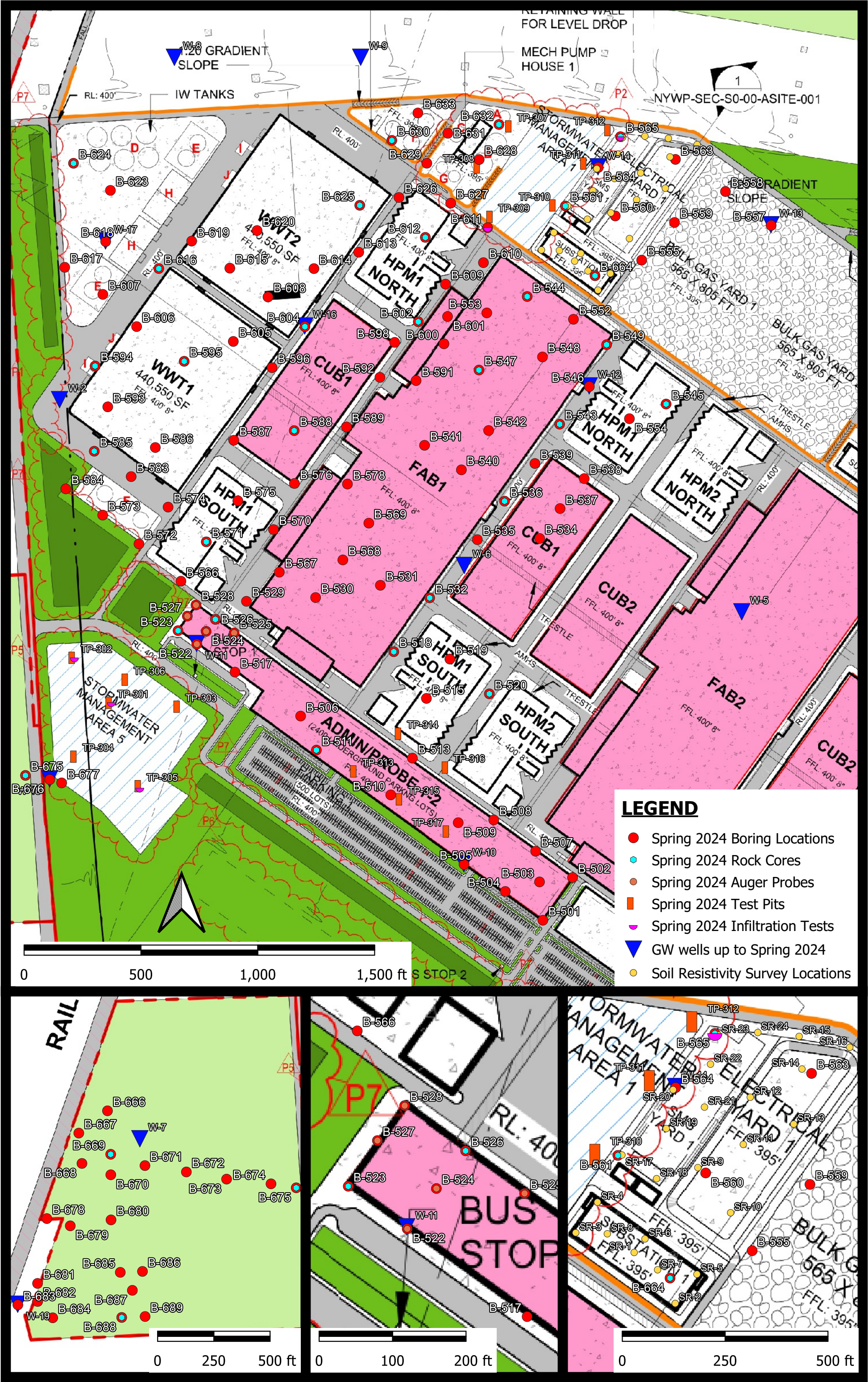
A handwritten signature in black ink, appearing to read "Marcus A. Rotundo", written over a horizontal line.

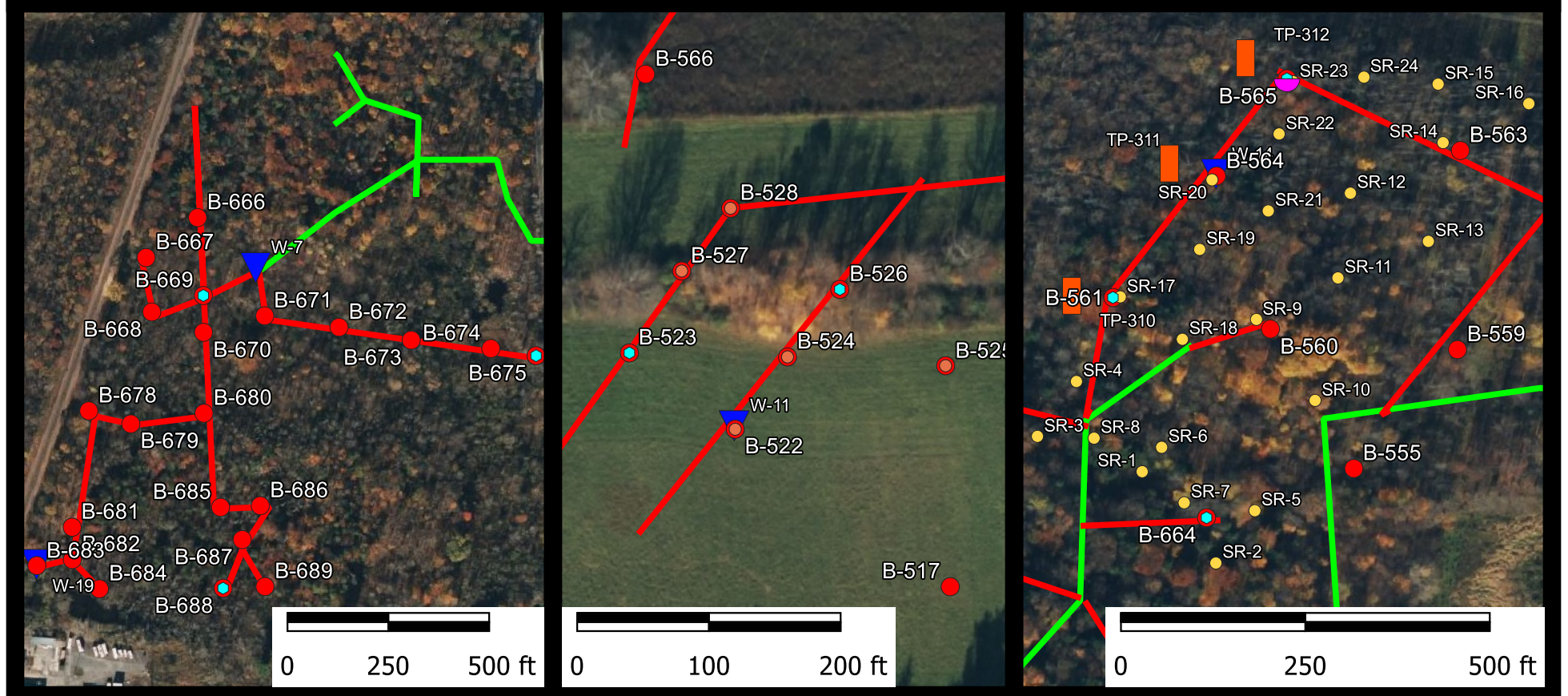
Marcus A. Rotundo, P.E.
Senior Principal Engineer

Attachment Listing:

- Exploration Location Plans (3 of 3)
- Coordinates and Elevations Tables (4 of 4)
- Laboratory Test Summary Report (33 of 33)
- Infiltration Test Reports (5 of 5)
- Test Pit Logs (17 of 17)
- Test Pit Photographs (17 of 17)
- Vane Shear Test and Pocket Penetrometer Test Summary Tables (2 of 2)
- Field Soil Resistivity Observations Summary Table (1 of 1)
- Field Soil Resistivity Photographs (12 of 12)
- Groundwater Observation Summary Table (1 of 1)
- Groundwater Monitoring Well Logs (9 of 9)
- Bedrock Core Photographs (62 of 62)
- Auger Probe Logs (5 of 5)
- Test Boring Logs (201 of 201)
- General Information & Key to Test Boring Logs (4 of 4)







COORDINATES AND ELEVATION TABLE					PAGE 1 of 4	
Exploration ID	Latitude	Longitude	Northing (ft)	Easting (ft)	Elevation (ft)	Exploration Phase and Type
B-501	43.18771	-76.15857	1161775.3	933487.8	405.5	Test Boring - Third Phase
B-502	43.18821	-76.15809	1161958.1	933616.8	400.4	Test Boring - Third Phase
B-503	43.18816	-76.15862	1161938.5	933473.1	400.8	Test Boring - Third Phase
B-504	43.18805	-76.15917	1161896.9	933326.7	404.4	Test Boring - Third Phase
B-505	43.18837	-76.15983	1162015.7	933151.5	406.1	Test Boring - Third Phase
B-506	43.19012	-76.16244	1162648.3	932451.8	399.6	Test Boring - Third Phase
B-507	43.18852	-76.15868	1162069.8	933458.7	403.8	Test Boring - Third Phase
B-508	43.18889	-76.15935	1162206.0	933279.3	404.7	Test Boring - Third Phase
B-509	43.18886	-76.15992	1162194.4	933126.8	404.7	Test Boring - Third Phase
B-510	43.18919	-76.16100	1162313.0	932838.6	405.2	Test Boring - Third Phase
B-511	43.18972	-76.16219	1162503.9	932519.2	400.6	Test Boring - Third Phase
B-513	43.18962	-76.16065	1162467.2	932929.6	402.3	Test Boring - Third Phase
B-515	43.19032	-76.16042	1162726.0	932989.4	395.4	Test Boring - Third Phase
B-517	43.19064	-76.16349	1162838.3	932170.9	395.2	Test Boring - Third Phase
B-518	43.19087	-76.16094	1162925.1	932849.7	393.4	Test Boring - Third Phase
B-519	43.19078	-76.16004	1162890.7	933091.6	394.9	Test Boring - Third Phase
B-520	43.19037	-76.15941	1162744.3	933259.3	395.7	Test Boring - Third Phase
B-522	43.19097	-76.16410	1162955.1	932008.4	393.7	Auger Probe - Third Phase
B-522A	43.19097	-76.16410	1162955.1	932008.4	393.7	Test Boring - Third Phase
B-523	43.19113	-76.16440	1163013.4	931927.2	393.5	Test Boring - Third Phase
B-524	43.19112	-76.16395	1163009.4	932047.5	394.5	Auger Probe - Third Phase
B-525	43.19110	-76.16350	1163005.4	932167.8	396.4	Auger Probe - Third Phase
B-526	43.19126	-76.16380	1163064.0	932086.7	396.9	Test Boring - Third Phase
B-527	43.19130	-76.16425	1163074.8	931968.2	394.4	Auger Probe - Third Phase
B-528	43.19143	-76.16411	1163122.2	932005.3	395.8	Auger Probe - Third Phase
B-529	43.19147	-76.16330	1163140.7	932221.4	395.6	Test Boring - Third Phase
B-530	43.19151	-76.16219	1163155.0	932516.5	391.4	Test Boring - Third Phase
B-531	43.19165	-76.16115	1163209.8	932792.7	401.7	Test Boring - Third Phase
B-532	43.19150	-76.16036	1163155.6	933004.0	396.5	Test Boring - Third Phase
B-534	43.19219	-76.15859	1163409.5	933474.5	390.4	Test Boring - Third Phase
B-535	43.19218	-76.15959	1163403.2	933207.0	390.3	Test Boring - Third Phase
B-536	43.19263	-76.15915	1163568.5	933325.1	387.2	Test Boring - Third Phase
B-537	43.19254	-76.15826	1163537.6	933563.3	392.5	Test Boring - Third Phase
B-538	43.19289	-76.15787	1163664.1	933665.6	388.1	Test Boring - Third Phase
B-539	43.19307	-76.15866	1163729.4	933455.8	387.5	Test Boring - Third Phase
B-540	43.19300	-76.15984	1163700.5	933140.5	389.7	Test Boring - Third Phase
B-541	43.19329	-76.16043	1163805.2	932983.2	385.3	Test Boring - Third Phase
B-542	43.19346	-76.15940	1163871.4	933256.4	384.7	Test Boring - Third Phase
B-543	43.19353	-76.15826	1163898.7	933559.3	392.1	Test Boring - Third Phase
B-544	43.19503	-76.15877	1164442.3	933421.2	381.6	Test Boring - Third Phase
B-545	43.19376	-76.15655	1163982.3	934014.8	392.6	Test Boring - Third Phase
B-546	43.19397	-76.15778	1164057.2	933686.8	394.5	Test Boring - Third Phase
B-547	43.19417	-76.15955	1164126.9	933214.9	389.0	Test Boring - Third Phase
B-548	43.19432	-76.15853	1164183.7	933487.2	393.4	Test Boring - Third Phase

COORDINATES AND ELEVATION TABLE					PAGE 2 of 4	
Exploration ID	Latitude	Longitude	Northing (ft)	Easting (ft)	Elevation (ft)	Exploration Phase and Type
B-549	43.19446	-76.15750	1164237.3	933761.9	391.3	Test Boring - Third Phase
B-552	43.19476	-76.15803	1164345.9	933620.5	390.3	Test Boring - Third Phase
B-553	43.19484	-76.15942	1164372.0	933247.7	383.2	Test Boring - Third Phase
B-554	43.19359	-76.15714	1163918.8	933858.4	393.8	Test Boring - Third Phase
B-555	43.19545	-76.15693	1164597.7	933911.6	386.4	Test Boring - Third Phase
B-557	43.19585	-76.15485	1164746.0	934464.4	382.0	Test Boring - Third Phase
B-558	43.19625	-76.15558	1164893.2	934270.2	382.0	Test Boring - Third Phase
B-559	43.19589	-76.15640	1164761.2	934051.7	385.4	Test Boring - Third Phase
B-560	43.19597	-76.15735	1164787.4	933797.2	388.0	Test Boring - Third Phase
B-561	43.19609	-76.15815	1164828.6	933584.7	383.5	Test Boring - Third Phase
B-563	43.19663	-76.15638	1165028.5	934056.6	381.1	Test Boring - Third Phase
B-564	43.19654	-76.15762	1164993.5	933725.9	380.8	Test Boring - Third Phase
B-565	43.19690	-76.15726	1165127.2	933822.0	381.2	Test Boring - Third Phase
B-566	43.19171	-76.16435	1163224.1	931938.8	392.2	Test Boring - Third Phase
B-567	43.19181	-76.16277	1163265.9	932362.0	389.1	Test Boring - Third Phase
B-568	43.19195	-76.16175	1163317.7	932633.2	395.8	Test Boring - Third Phase
B-569	43.19238	-76.16133	1163474.0	932744.3	389.6	Test Boring - Third Phase
B-570	43.19231	-76.16286	1163446.3	932336.4	387.4	Test Boring - Third Phase
B-571	43.19217	-76.16394	1163393.0	932048.7	391.3	Test Boring - Third Phase
B-572	43.19215	-76.16502	1163386.7	931760.4	390.3	Test Boring - Third Phase
B-573	43.19249	-76.16560	1163507.0	931604.3	393.5	Test Boring - Third Phase
B-574	43.19258	-76.16455	1163542.6	931885.6	389.1	Test Boring - Third Phase
B-575	43.19265	-76.16343	1163568.2	932182.2	385.8	Test Boring - Third Phase
B-576	43.19285	-76.16252	1163642.4	932425.9	385.4	Test Boring - Third Phase
B-578	43.19284	-76.16167	1163639.3	932652.2	383.4	Test Boring - Third Phase
B-583	43.19294	-76.16514	1163673.5	931726.6	388.7	Test Boring - Third Phase
B-584	43.19280	-76.16619	1163618.7	931446.3	393.5	Test Boring - Third Phase
B-585	43.19324	-76.16573	1163782.7	931569.0	394.1	Test Boring - Third Phase
B-586	43.19328	-76.16475	1163797.8	931830.8	388.7	Test Boring - Third Phase
B-587	43.19336	-76.16349	1163828.5	932167.0	385.0	Test Boring - Third Phase
B-588	43.19347	-76.16252	1163869.3	932424.4	384.4	Test Boring - Third Phase
B-589	43.19351	-76.16168	1163885.2	932649.7	383.8	Test Boring - Third Phase
B-591	43.19405	-76.16056	1164083.0	932946.8	384.1	Test Boring - Third Phase
B-592	43.19409	-76.16114	1164098.0	932790.2	383.0	Test Boring - Third Phase
B-593	43.19376	-76.16551	1163971.4	931626.7	392.4	Test Boring - Third Phase
B-594	43.19424	-76.16571	1164147.1	931572.9	392.9	Test Boring - Third Phase
B-595	43.19429	-76.16428	1164167.8	931952.6	390.4	Test Boring - Third Phase
B-596	43.19421	-76.16287	1164137.2	932329.8	391.7	Test Boring - Third Phase
B-598	43.19450	-76.16090	1164246.1	932855.7	383.5	Test Boring - Third Phase
B-600	43.19448	-76.16011	1164242.5	933066.4	383.4	Test Boring - Third Phase
B-601	43.19480	-76.16005	1164357.5	933081.6	383.1	Test Boring - Third Phase
B-602	43.19474	-76.16052	1164335.8	932955.8	384.9	Test Boring - Third Phase
B-604	43.19469	-76.16234	1164315.1	932470.9	391.4	Test Boring - Third Phase
B-605	43.19452	-76.16349	1164252.1	932163.4	390.2	Test Boring - Third Phase

COORDINATES AND ELEVATION TABLE					PAGE 3 of 4	
Exploration ID	Latitude	Longitude	Northing (ft)	Easting (ft)	Elevation (ft)	Exploration Phase and Type
B-606	43.19470	-76.16504	1164315.8	931751.1	393.2	Test Boring - Third Phase
B-607	43.19508	-76.16558	1164451.2	931604.9	393.9	Test Boring - Third Phase
B-608	43.19504	-76.16293	1164439.5	932311.9	387.7	Test Boring - Third Phase
B-609	43.19518	-76.16008	1164497.5	933071.8	391.7	Test Boring - Third Phase
B-610	43.19543	-76.15947	1164587.0	933235.5	382.7	Test Boring - Third Phase
B-611	43.19584	-76.15940	1164737.5	933253.3	380.6	Test Boring - Third Phase
B-612	43.19573	-76.16040	1164696.8	932986.3	391.6	Test Boring - Third Phase
B-613	43.19556	-76.16147	1164632.9	932700.0	390.0	Test Boring - Third Phase
B-614	43.19537	-76.16219	1164563.4	932508.9	386.2	Test Boring - Third Phase
B-615	43.19538	-76.16354	1164564.3	932148.3	391.8	Test Boring - Third Phase
B-616	43.19538	-76.16468	1164561.8	931845.2	392.5	Test Boring - Third Phase
B-617	43.19540	-76.16619	1164566.8	931441.5	393.0	Test Boring - Third Phase
B-618	43.19570	-76.16553	1164679.1	931617.1	392.7	Test Boring - Third Phase
B-619	43.19570	-76.16415	1164679.8	931985.0	392.3	Test Boring - Third Phase
B-620	43.19582	-76.16310	1164725.5	932265.3	391.3	Test Boring - Third Phase
B-623	43.19630	-76.16545	1164897.8	931638.4	392.1	Test Boring - Third Phase
B-624	43.19662	-76.16604	1165013.5	931480.7	389.8	Test Boring - Third Phase
B-625	43.19611	-76.16145	1164832.5	932705.8	385.8	Test Boring - Third Phase
B-626	43.19620	-76.16082	1164866.3	932873.8	385.4	Test Boring - Third Phase
B-627	43.19613	-76.15999	1164844.0	933093.2	383.0	Test Boring - Third Phase
B-628	43.19664	-76.15953	1165029.4	933217.0	381.4	Test Boring - Third Phase
B-629	43.19660	-76.16037	1165011.9	932991.2	383.3	Test Boring - Third Phase
B-630	43.19687	-76.16093	1165109.7	932843.2	381.7	Test Boring - Third Phase
B-631	43.19695	-76.16003	1165140.0	933080.9	384.5	Test Boring - Third Phase
B-632	43.19705	-76.15921	1165179.3	933300.1	383.8	Test Boring - Third Phase
B-633	43.19719	-76.16051	1165229.6	932953.9	380.9	Test Boring - Third Phase
B-664	43.19527	-76.15768	1164533.4	933711.1	389.8	Test Boring - Third Phase
B-666	43.19039	-76.17000	1162738.1	930435.9	399.1	Test Boring - Third Phase
B-667	43.19012	-76.17048	1162638.2	930307.9	399.4	Test Boring - Third Phase
B-668	43.18975	-76.17043	1162504.6	930320.9	399.5	Test Boring - Third Phase
B-669	43.18986	-76.16995	1162543.3	930449.2	399.9	Test Boring - Third Phase
B-670	43.18961	-76.16995	1162452.2	930450.4	400.0	Test Boring - Third Phase
B-671	43.18972	-76.16938	1162493.4	930601.6	400.3	Test Boring - Third Phase
B-672	43.18964	-76.16869	1162465.2	930787.1	400.4	Test Boring - Third Phase
B-673	43.18955	-76.16802	1162433.3	930964.3	400.7	Test Boring - Third Phase
B-674	43.18949	-76.16728	1162411.8	931161.5	401.4	Test Boring - Third Phase
B-675	43.18944	-76.16686	1162396.2	931275.0	403.9	Test Boring - Third Phase
B-676	43.18939	-76.16647	1162377.2	931378.8	404.3	Test Boring - Third Phase
B-677	43.18935	-76.16628	1162362.7	931429.5	403.8	Test Boring - Third Phase
B-678	43.18908	-76.17102	1162257.1	930166.7	398.4	Test Boring - Third Phase
B-679	43.18899	-76.17063	1162224.9	930270.0	395.9	Test Boring - Third Phase
B-680	43.18906	-76.16995	1162253.8	930451.2	399.5	Test Boring - Third Phase
B-681	43.18829	-76.17118	1161971.8	930123.6	395.6	Test Boring - Third Phase
B-682	43.18807	-76.17118	1161890.8	930126.1	393.3	Test Boring - Third Phase

COORDINATES AND ELEVATION TABLE					PAGE 4 of 4	
Exploration ID	Latitude	Longitude	Northing (ft)	Easting (ft)	Elevation (ft)	Exploration Phase and Type
B-683	43.18803	-76.17151	1161873.3	930035.9	394.8	Test Boring - Third Phase
B-684	43.18787	-76.17093	1161817.9	930193.0	394.0	Test Boring - Third Phase
B-685	43.18842	-76.16980	1162019.1	930492.6	397.0	Test Boring - Third Phase
B-686	43.18843	-76.16943	1162021.8	930592.2	397.5	Test Boring - Third Phase
B-687	43.18820	-76.16960	1161940.2	930546.1	398.1	Test Boring - Third Phase
B-688	43.18787	-76.16978	1161819.9	930498.5	394.8	Test Boring - Third Phase
B-689	43.18788	-76.16939	1161822.8	930601.6	395.2	Test Boring - Third Phase
TP-301	43.19028	-76.16547	1162703.8	931642.8	403.1	Test Pit - Third Phase
TP-302	43.19081	-76.16606	1162895.3	931484.6	398.9	Test Pit - Third Phase
TP-303	43.19023	-76.16438	1162685.4	931933.3	400.2	Test Pit - Third Phase
TP-304	43.18965	-76.16604	1162471.8	931492.7	404.4	Test Pit - Third Phase
TP-305	43.18930	-76.16501	1162346.0	931768.3	404.0	Test Pit - Third Phase
TP-306	43.19055	-76.16521	1162800.3	931713.5	399.0	Test Pit - Third Phase
TP-307	43.19702	-76.15901	1165167.7	933354.1	382.4	Test Pit - Third Phase
TP-308	43.19654	-76.15952	1164991.0	933217.9	381.0	Test Pit - Third Phase
TP-309	43.19596	-76.15932	1164782.3	933274.4	380.6	Test Pit - Third Phase
TP-310	43.19609	-76.15831	1164828.8	933543.0	383.1	Test Pit - Third Phase
TP-311	43.19658	-76.15781	1165009.8	933676.1	380.5	Test Pit - Third Phase
TP-312	43.19697	-76.15742	1165151.1	933776.8	380.5	Test Pit - Third Phase
TP-313	43.18946	-76.16155	1162410.5	932690.4	403.6	Test Pit - Third Phase
TP-314	43.18990	-76.16083	1162571.2	932880.5	401.6	Test Pit - Third Phase
TP-315	43.18913	-76.16082	1162288.5	932885.0	405.1	Test Pit - Third Phase
TP-316	43.18950	-76.16008	1162426.2	933083.3	403.3	Test Pit - Third Phase
TP-317	43.18875	-76.16007	1162152.5	933085.3	405.4	Test Pit - Third Phase



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LABORATORY TEST SUMMARY

Micron Campus

CME Report No.: 28062L-04-0724

July 9, 2024

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CME Representatives obtained soil and rock samples from Test Borings and Test Pits advanced as part of the Subsurface Exploration Program conducted for the subject project. Selected samples were delivered to CME's East Syracuse facility, an AASHTO re:source¹ accredited laboratory for various laboratory testing. The results are presented below:

Sample ID Notations: B - Test Boring, S – Sample, TP – Test Pit, R – Run

I. Natural Moisture Content (ASTM D2216)

Sample ID	Natural Moisture (%)	Sample ID	Natural Moisture (%)
B-517; S-2	17.9	B-560; S-4	25.3
B-531; S-2	14.9	B-560; S-5	13.4
B-532; S-4	24.0	B-560; S-6	9.7
B-534; S-1B	41.0	B-560; S-7	6.9
B-534; S-2	27.1	B-561; S-3	28.1
B-534; S-3	22.5	B-561; S-5	23.6
B-534; S-4	20.0	B-563; S-2	25.3
B-534; S-5	24.7	B-563; S-6	24.4
B-534; S-6	18.5	B-565; S-3	22.7
B-534; S-7	13.3	B-565; S-5	25.1
B-534; S-8	10.5	B-569; S-1B	20.9
B-538; S-6	23.2	B-569; S-2	23.7
B-538; S-7	19.1	B-569; S-3	21.8
B-542; S-4	20.9	B-569; S-4	11.1
B-545; S-5	26.5	B-569; S-5	9.2
B-548; S-4	25.2	B-569; S-6	8.7
B-548; S-5	23.6	B-583; S-1B	22.5
B-557; S-4	26.7	B-583; S-2	8.7
B-557; S-5	25.7	B-583; S-3	15.7
B-558; S-3	24.5	B-583; S-4	17.5
B-560; S-1B	41.7	B-587; S-4	23.0
B-560; S-2	22.2	B-592; S-5	20.5
B-560; S-3	24.0	B-602; S-4	22.5

¹AASHTO re:source – American Association of State Highway & Transportation Officials (AASHTO) Materials Reference Laboratory, a Federal Agency having jurisdiction to assess laboratory competency according to the Standards of the United States of America. CME East Syracuse accreditation includes testing of Portland Cement Concrete, Aggregate and Soil Materials. www.AASHTOresource.org.

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Sample ID	Natural Moisture (%)	Sample ID	Natural Moisture (%)
B-602; S-6	20.9	B-624; S-3	21.9
B-609; S-5	21.6	B-624; S-4	21.8
B-613; S-1	22.9	B-624; S-5	19.6
B-613; S-2	22.6	B-624; S-6	24.2
B-613; S-3	22.8	B-624; S-7	25.2
B-613; S-4	24.5	B-624; S-8A	18.3
B-613; S-5	21.8	B-624; S-8B	17.3
B-613; S-6	23.8	B-626; S-5	23.8
B-613; S-7	11.0	B-632; S-1B	25.0
B-613; S-8A	28.0	B-632; S-2	23.9
B-613; S-8B	21.2	B-632; S-3	20.3
B-618; S-1B	31.8	B-632; S-4	11.2
B-618; S-2	25.9	B-632; S-5	22.6
B-618; S-3	28.6	B-632; S-6	24.7
B-618; S-4	22.6	B-671; S-2	25.9
B-618; S-5	21.0	B-680; S-1B	22.7
B-618; S-6	24.5	B-680; S-2	23.5
B-618; S-7A	22.3	B-680; S-3	22.4
B-618; S-7B	18.9	B-680; S-4	20.9
B-618; S-8	21.3	B-680; S-5	20.4
B-618; S-9	8.0	B-680; S-6	8.3
B-620; S-6	22.2	B-683; S-7	8.8
B-624; S-2	25.9		

Laboratory Test Summary
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II. Atterberg Limits Testing (ASTM D4318)

Sample ID	Liquid Limit	Plastic Limit	Plasticity Index	Natural Moisture (%)
B-534; S-2	25	20	5	27.1
B-545; S-5	20	17	3	26.5
B-561; S-3	30	18	12	28.1
B-563; S-2	29	17	12	25.3
B-618; S-7B	20	14	6	18.9
B-624; S-7	22	13	9	25.2
B-624; S-8A	17	12	5	18.3
B-517; S-2	Non-Plastic			17.9
B-532; S-4	Non-Plastic			24
B-534; S-4	Non-Plastic			20
B-534; S-6	Non-Plastic			18.5
B-538; S-6	Non-Plastic			23.2
B-538; S-7	Non-Plastic			19.1
B-542; S-4	Non-Plastic			20.9
B-548; S-4	Non-Plastic			25.2
B-548; S-5	Non-Plastic			23.6
B-557; S-4	Non-Plastic			26.7
B-557; S-5	Non-Plastic			25.7
B-561; S-5	Non-Plastic			23.6
B-563; S-6	Non-Plastic			24.4
B-565; S-5	Non-Plastic			25.1
B-569; S-2	Non-Plastic			23.7
B-587; S-4	Non-Plastic			23
B-592; S-5	Non-Plastic			20.5
B-602; S-4	Non-Plastic			22.5
B-602; S-6	Non-Plastic			20.9
B-613; S-4	Non-Plastic			24.5
B-613; S-5	Non-Plastic			21.8
B-613; S-6	Non-Plastic			23.8
B-618; S-2	Non-Plastic			25.9
B-618; S-5	Non-Plastic			21
B-618; S-8	Non-Plastic			21.3
B-620; S-6	Non-Plastic			22.2
B-624; S-5	Non-Plastic			19.6
B-624; S-6	Non-Plastic			24.2
B-626; S-5	Non-Plastic			23.8
B-632; S-4	Non-Plastic			11.2
B-632; S-5	Non-Plastic			22.6
B-632; S-6	Non-Plastic			24.7
B-671; S-2	Non-Plastic			25.9

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III. Particle Size Analysis (ASTM D422)

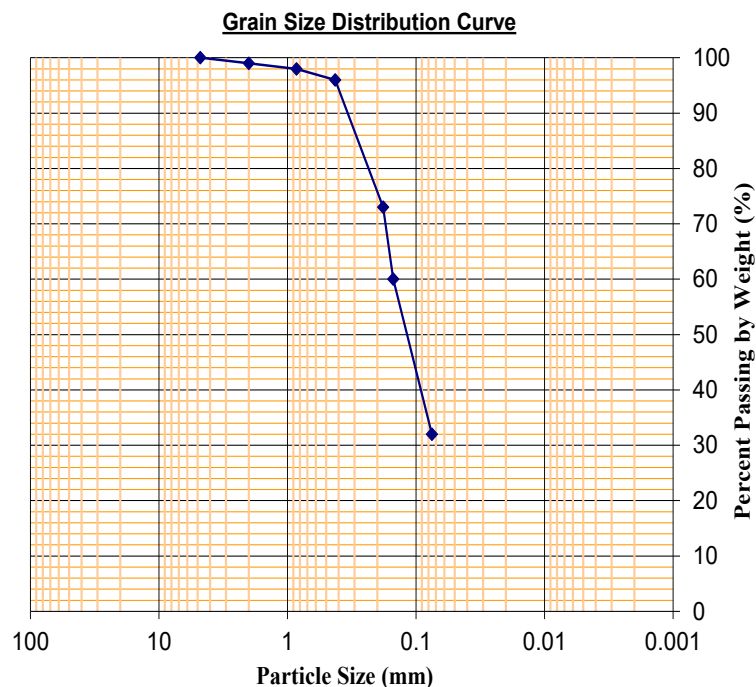
Sample #

B-531; S-2

Classification

Brown/Orange cmf SAND, some SILT

<u>Sieve Designation</u>	<u>Size (mm)</u>	<u>Percent Passing by Weight (%)</u>
No.4	4.750	100
No.10	2.00	99
No.20	0.850	98
No.40	0.425	96
No.80	0.180	73
No.100	0.150	60
No.200	0.075	32



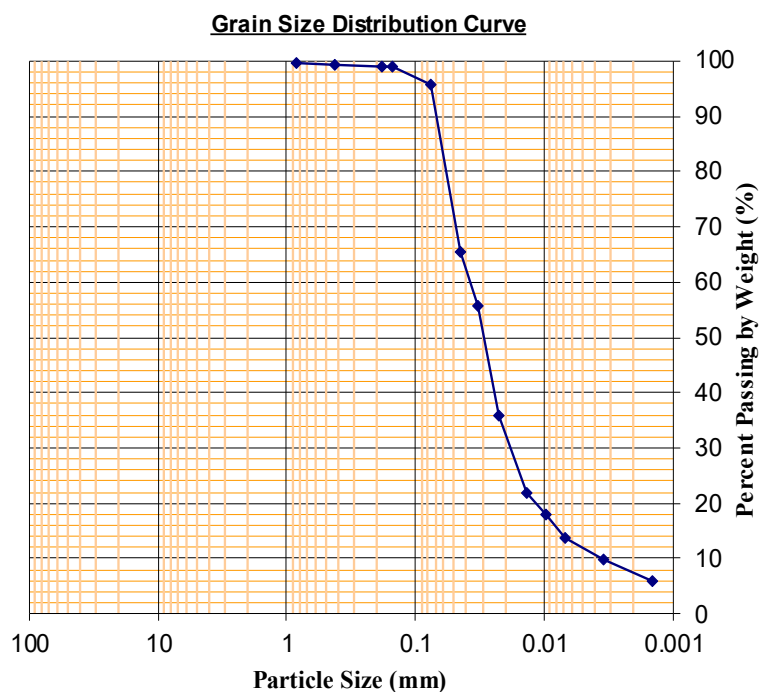
Sample #

B-538; S-7

Classification

Grey SILT, little CLAY, trace fine SAND

<u>Sieve Designation</u>	<u>Size (mm)</u>	<u>Percent Passing by Weight (%)</u>
No.20	0.850	100
No.40	0.425	99
No.80	0.180	99
No.100	0.150	99
No.200	0.075	96
Hydrometer	0.045	65
	0.033	56
	0.022	36
	0.013	22
	0.010	18
	0.007	14
	0.003	10
	0.001	6.0



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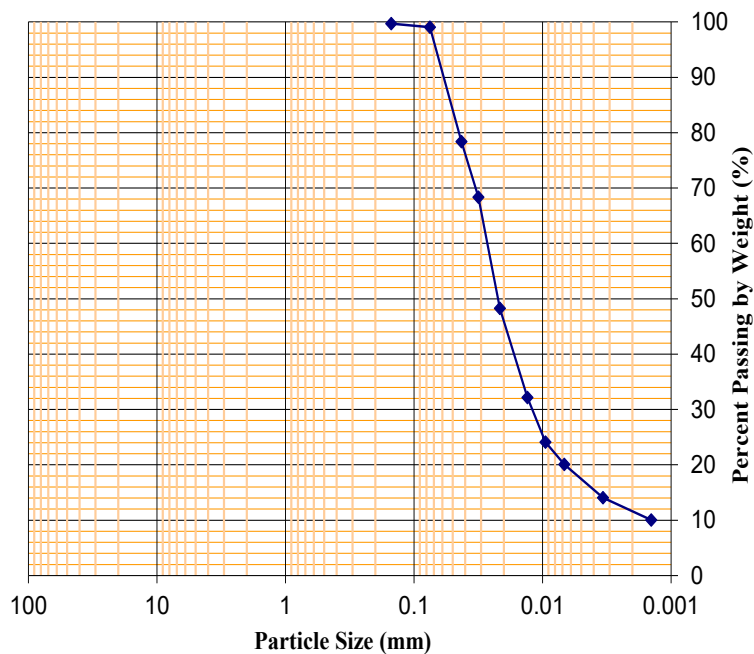
**Sample #**

B-558; S-3

Classification

Brown SILT, little CLAY, trace fine SAND

<u>Sieve</u>	<u>Size</u>	<u>Percent</u>
<u>Designation</u>	<u>(mm)</u>	<u>Passing by</u>
		<u>Weight (%)</u>
No.100	0.150	100
No.200	0.075	99
Hydrometer	0.043	78
	0.031	68
	0.021	48
	0.013	32
	0.009	24
	0.007	20
	0.003	14
	0.001	10

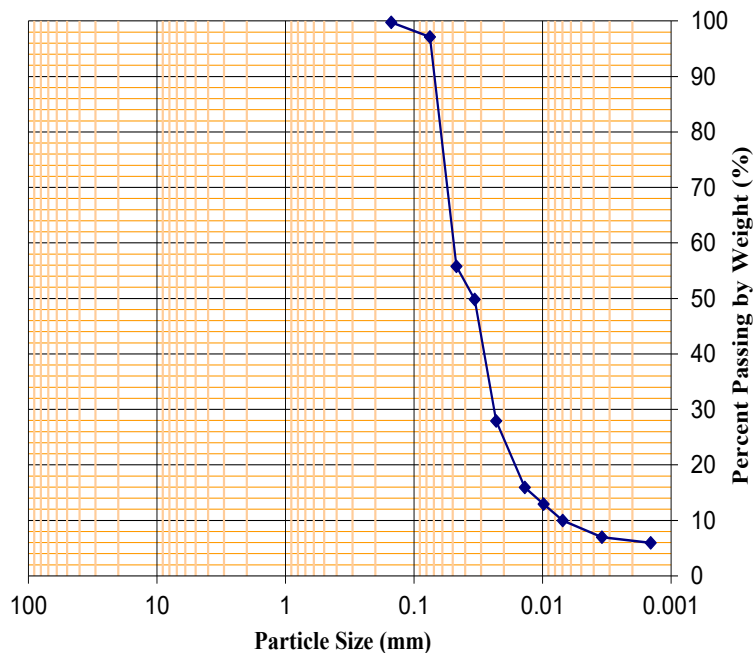
Grain Size Distribution Curve**Sample #**

B-565; S-5

Classification

Brown/Grey SILT, trace CLAY, trace fine SAND

<u>Sieve</u>	<u>Size</u>	<u>Percent</u>
<u>Designation</u>	<u>(mm)</u>	<u>Passing by</u>
		<u>Weight (%)</u>
No.100	0.150	100
No.200	0.075	97
Hydrometer	0.047	56
	0.034	50
	0.023	28
	0.014	16
	0.010	13
	0.007	10
	0.003	7.0
	0.001	6.0

Grain Size Distribution Curve

Laboratory Test Summary
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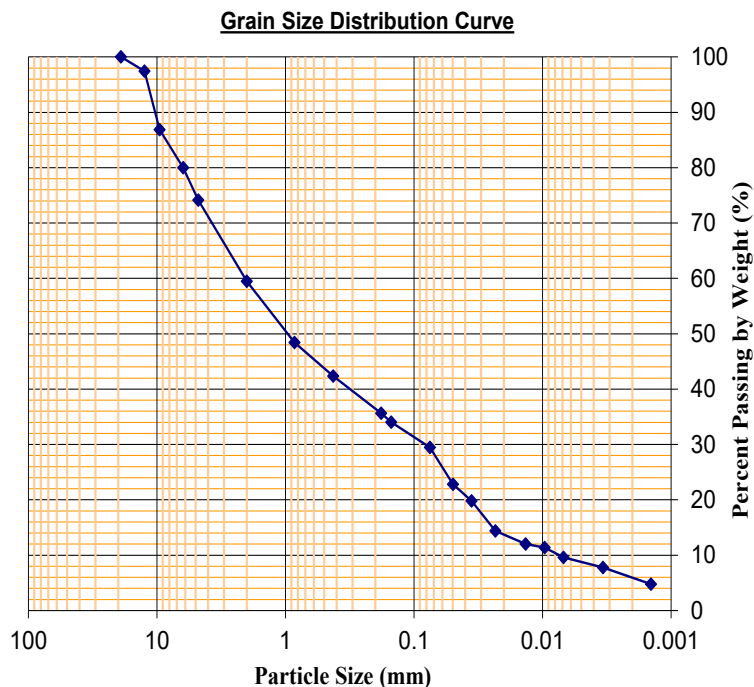
**Sample #**

B-569; S-5

Classification

Grey/Black cmf SAND, some mf GRAVEL, some SILT, trace CLAY

<u>Sieve</u>	<u>Size</u>	<u>Percent</u>
<u>Designation</u>	<u>(mm)</u>	<u>Passing by</u>
		<u>Weight (%)</u>
3/4"	19.0	100
1/2"	12.5	97
3/8"	9.5	87
1/4"	6.25	80
No.4	4.75	74
No.10	2.00	60
No.20	0.850	48
No.40	0.425	42
No.80	0.180	36
No.100	0.150	34
No.200	0.075	29
Hydrometer	0.050	23
	0.036	20
	0.023	14
	0.014	12
	0.010	11
	0.007	10
	0.003	7.8
	0.001	4.8

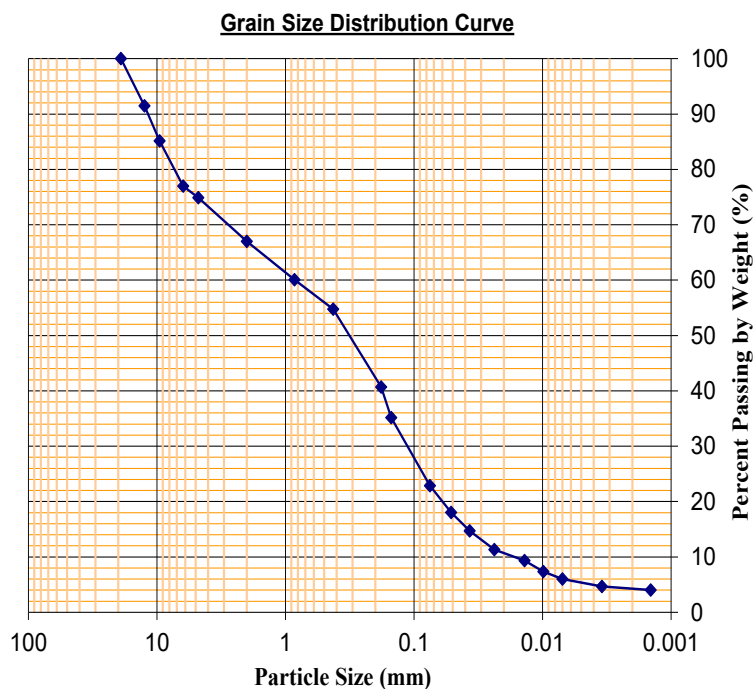
**Sample #**

B-609; S-5

Classification

Brown cmf SAND, some mf GRAVEL, little SILT, trace CLAY

<u>Sieve</u>	<u>Size</u>	<u>Percent</u>
<u>Designation</u>	<u>(mm)</u>	<u>Passing by</u>
		<u>Weight (%)</u>
3/4"	19.0	100
1/2"	12.5	92
3/8"	9.5	85
1/4"	6.25	77
No.4	4.75	75
No.10	2.00	67
No.20	0.850	60
No.40	0.425	55
No.80	0.180	41
No.100	0.150	35
No.200	0.075	23
Hydrometer	0.051	18
	0.037	15
	0.024	11
	0.014	9.3
	0.010	7.3
	0.007	6.0
	0.003	4.7
	0.001	4.0



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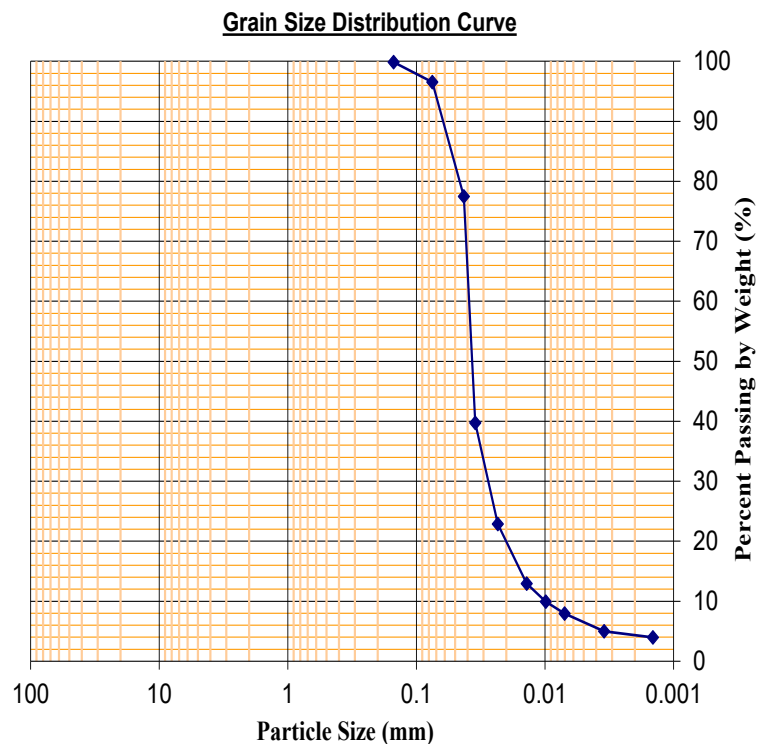
**Sample #**

B-624; S-6

Classification

Grey SILT, trace CLAY, trace fine SAND

<u>Sieve</u>	<u>Size</u>	<u>Percent</u>
<u>Designation</u>	<u>(mm)</u>	<u>Passing by</u>
		<u>Weight (%)</u>
No.100	0.150	100
No.200	0.075	97
Hydrometer	0.043	78
	0.035	40
	0.023	23
	0.014	13
	0.010	10
	0.007	7.9
	0.003	5.0
	0.001	4.0

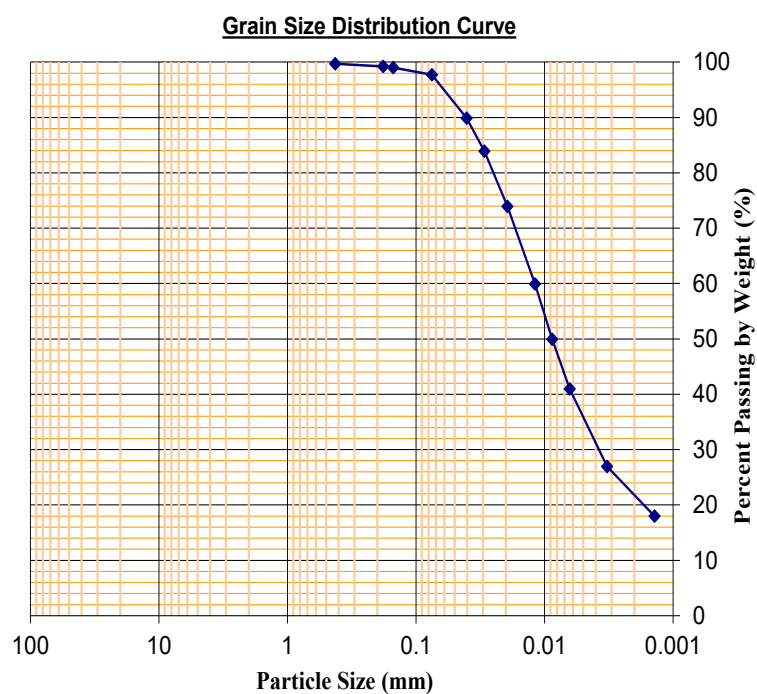
**Sample #**

B-624; S-7

Classification

Grey SILT and CLAY, trace fine SAND

<u>Sieve</u>	<u>Size</u>	<u>Percent</u>
<u>Designation</u>	<u>(mm)</u>	<u>Passing by</u>
		<u>Weight (%)</u>
No.40	0.425	100
No.80	0.180	99
No.100	0.150	99
No.200	0.075	98
Hydrometer	0.040	90
	0.029	84
	0.019	74
	0.012	60
	0.009	50
	0.006	41
	0.003	27
	0.001	18



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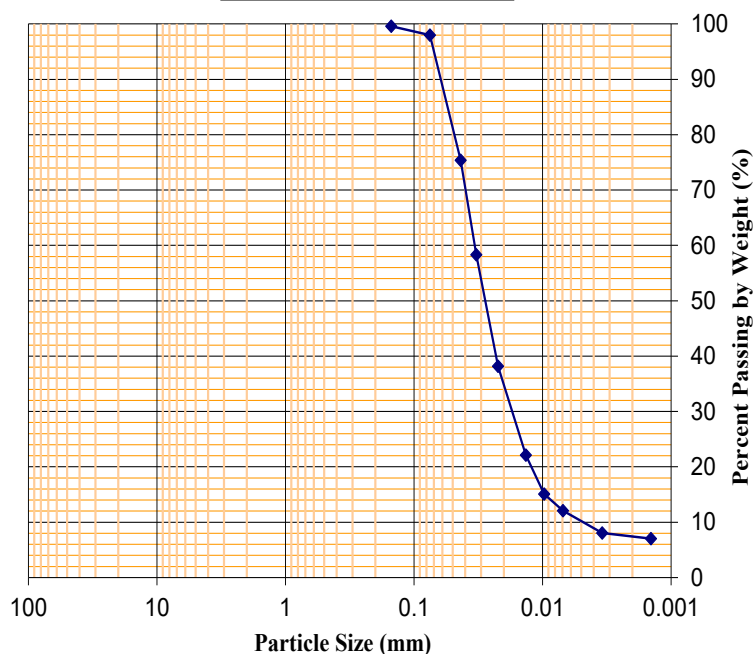
**Sample #**

B-632; S-6

Classification

Brown/Grey SILT, little CLAY, trace fine SAND

<u>Sieve Designation</u>	<u>Size (mm)</u>	<u>Percent Passing by Weight (%)</u>
No.100	0.150	100
No.200	0.075	98
Hydrometer	0.043	75
	0.033	58
	0.022	38
	0.013	22
	0.010	15
	0.007	12
	0.003	8.0
	0.001	7.0

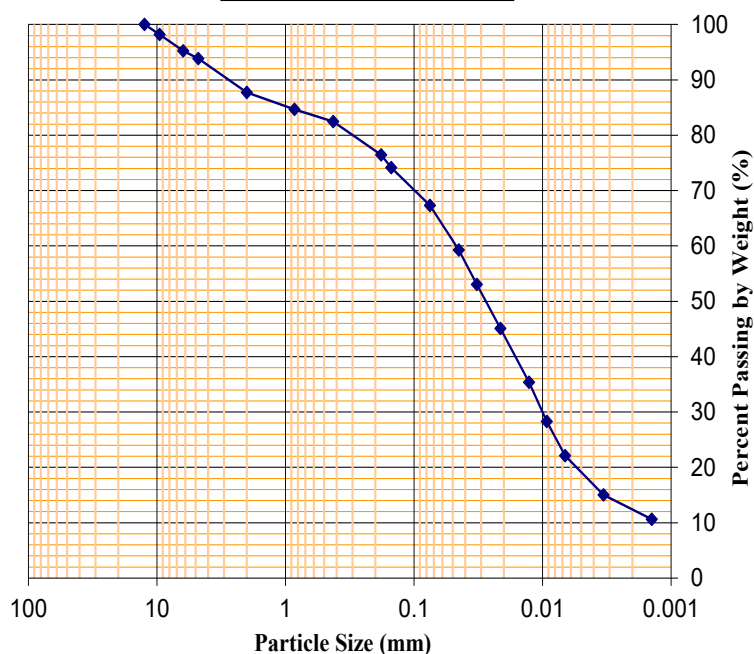
Grain Size Distribution Curve**Sample #**

B-683; S-7

Classification

Grey SILT, some cmf SAND, little CLAY, trace fine GRAVEL

<u>Sieve Designation</u>	<u>Size (mm)</u>	<u>Percent Passing by Weight (%)</u>
1/2"	12.5	100
3/8"	9.5	98
1/4"	6.25	95
No.4	4.75	94
No.10	2.00	88
No.20	0.850	85
No.40	0.425	82
No.80	0.180	76
No.100	0.150	74
No.200	0.075	67
Hydrometer	0.045	59
	0.032	53
	0.021	45
	0.013	35
	0.009	28
	0.007	22
	0.003	15
	0.001	11

Grain Size Distribution Curve

Laboratory Test Summary
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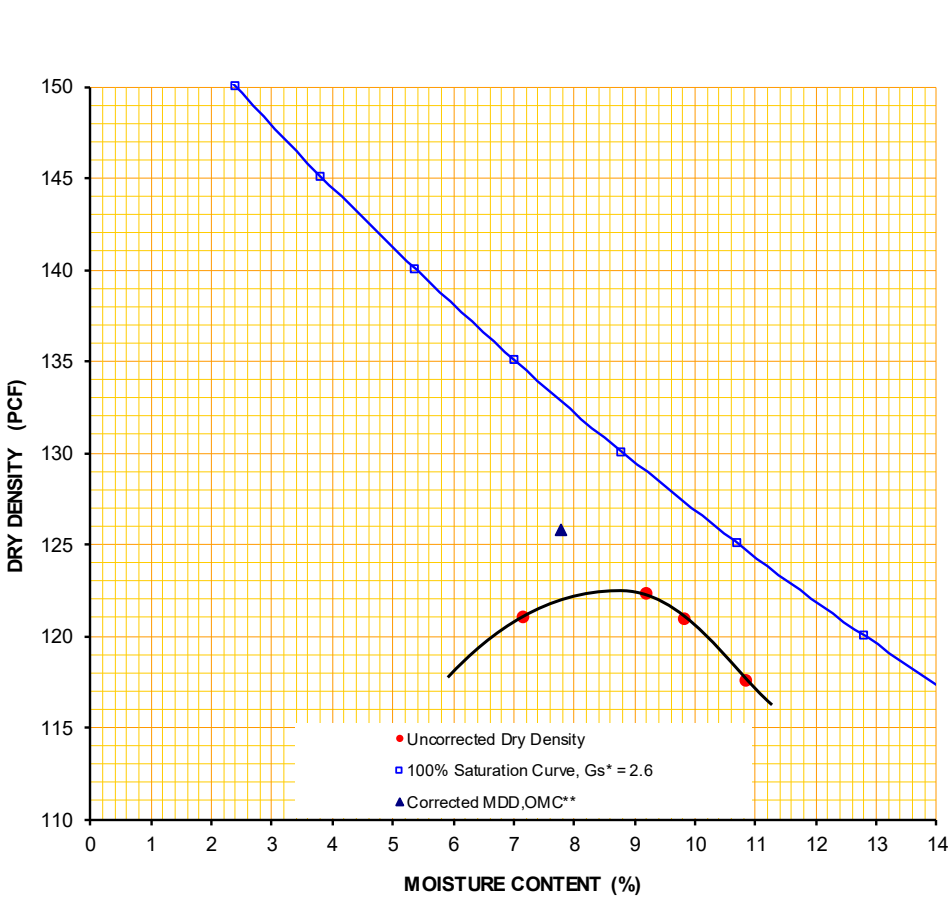


IV. Moisture-Density Relationship (ASTM D-1557: Modified Proctor)

SAMPLE LOCATION:	TP-303; S-1	DATE SAMPLED:	5/1/24
SOIL CLASSIFICATION:	Brown cmf SAND, some SILT, some cmf GRAVEL, little CLAY	SAMPLE NO.:	TP-303

Moisture - Density Relationship Curve

Particle Size Analysis ASTMD422



Sieve Size	% Passing
6"	100
5"	100
4"	100
3"	100
2"	97
1-1/2"	96
1"	90
3/4"	89
1/2"	85
3/8"	82
1/4"	78
No.4	77
No.10	73
No.20	69
No.40	66
No.80	55
No.100	50
No.200	37

Test Procedure Information

Test Method

Procedure Used

Preparation Method

Description of Rammer

☒ ASTM D-1557 (Modified) ☐ ASTM D-698 (Standard)

☐ A ☐ B ☒ C

☐ Dry ☒ Moist

☐ Manual ☒ Mechanical

Test Results

Corrected MDD (PCF) = **125.8**
Corrected OMC (%) = **7.8**

Oversize Fraction by Dry Weight

11 % Retained on ☐ No.4 Sieve ☐ 3/8" Sieve ☒ 3/4" Sieve

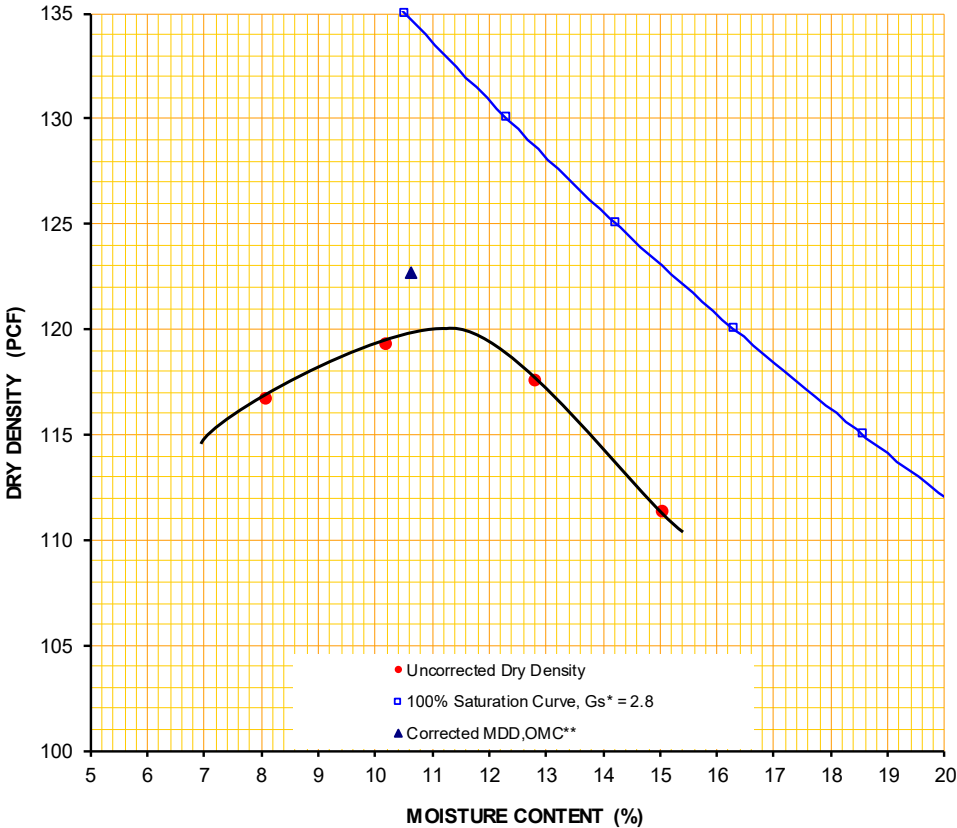
* Specific Gravity, estimated
** MDD = Maximum Dry Density, OMC = Optimum Moisture Content

Laboratory Test Summary
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SAMPLE LOCATION:	TP-304; S-1	DATE SAMPLED:	5/1/24
SOIL CLASSIFICATION:	Brown cmf SAND, some SILT, some cmf GRAVEL, trace CLAY	SAMPLE NO.:	TP-304

Moisture - Density Relationship Curve



Particle Size Analysis ASTMD422

Sieve Size	% Passing
2"	100
1-1/2"	98
1"	96
3/4"	93
1/2"	89
3/8"	86
1/4"	81
No.4	79
No.10	75
No.20	71
No.40	67
No.80	54
No.100	49
No.200	33

Test Procedure Information

Test Method

☒ ASTM D-1557 (Modified) ☐ ASTM D-698 (Standard)

Procedure Used

☐ A ☐ B ☒ C

Preparation Method

☐ Dry ☒ Moist

Description of Rammer

☐ Manual ☒ Mechanical

Test Results

Corrected MDD (PCF) = 122.7
Corrected OMC (%) = 10.6

Oversize Fraction by Dry Weight

7 % Retained on ☐ No.4 Sieve ☐ 3/8" Sieve ☒ 3/4" Sieve

* Specific Gravity, estimated
** MDD = Maximum Dry Density, OMC = Optimum Moisture Content

Laboratory Test Summary

CME Report No.: 28062L-04-0724

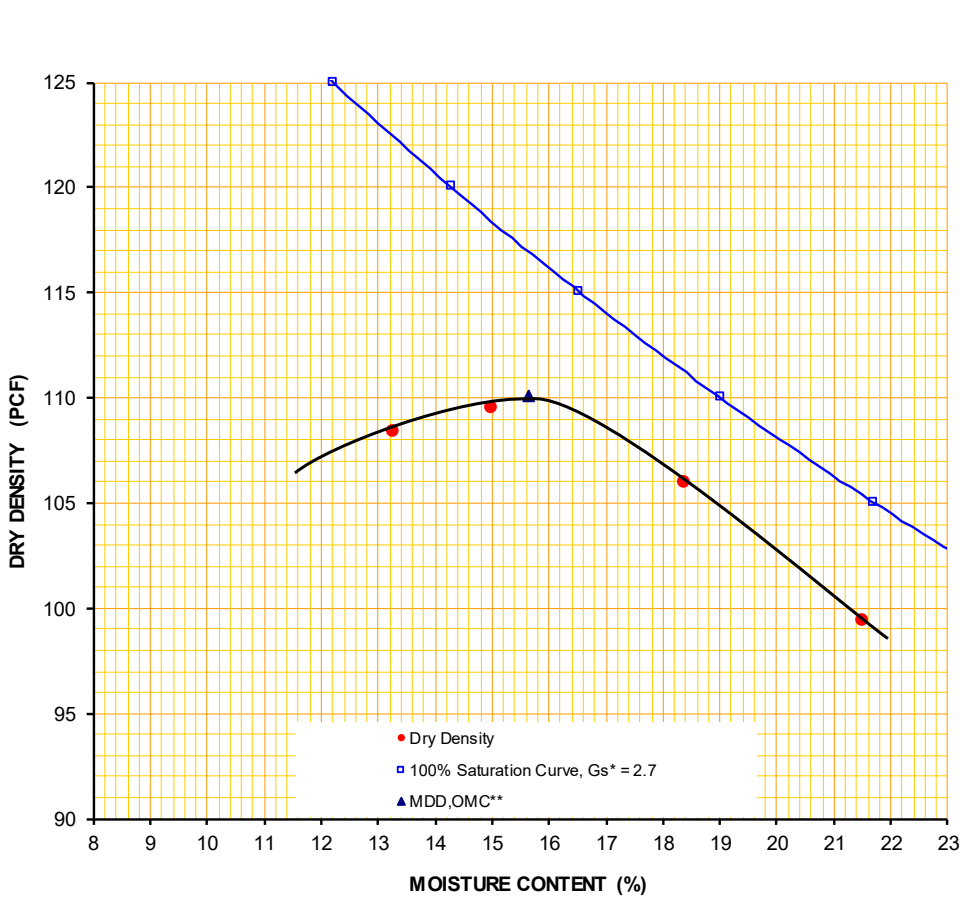
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SAMPLE LOCATION:	TP-307; S-1	DATE SAMPLED:	5/2/24
SOIL CLASSIFICATION:	Brown SILT, little CLAY, trace mf SAND	SAMPLE NO.:	TP-307

Moisture - Density Relationship Curve

Particle Size Analysis ASTMD422



Sieve Size	% Passing
2"	100
1-1/2"	100
1"	100
3/4"	100
1/2"	100
3/8"	100
1/4"	100
No.4	100
No.10	100
No.20	100
No.40	99
No.80	98
No.100	98
No.200	97

Test Procedure Information

Test Method

Procedure Used

Preparation Method

Description of Rammer

☒ ASTM D-1557 (Modified) ☐ ASTM D-698 (Standard)

☐ A ☐ B ☒ C

☐ Dry ☒ Moist

☐ Manual ☒ Mechanical

Test Results

MDD (PCF) = 110.1
OMC (%) = 15.6

Oversize Fraction by Dry Weight

☒ 0 % Retained on ☐ No.4 Sieve ☐ 3/8" Sieve ☒ 3/4" Sieve

* Specific Gravity, estimated
** MDD = Maximum Dry Density, OMC = Optimum Moisture Content

Laboratory Test Summary

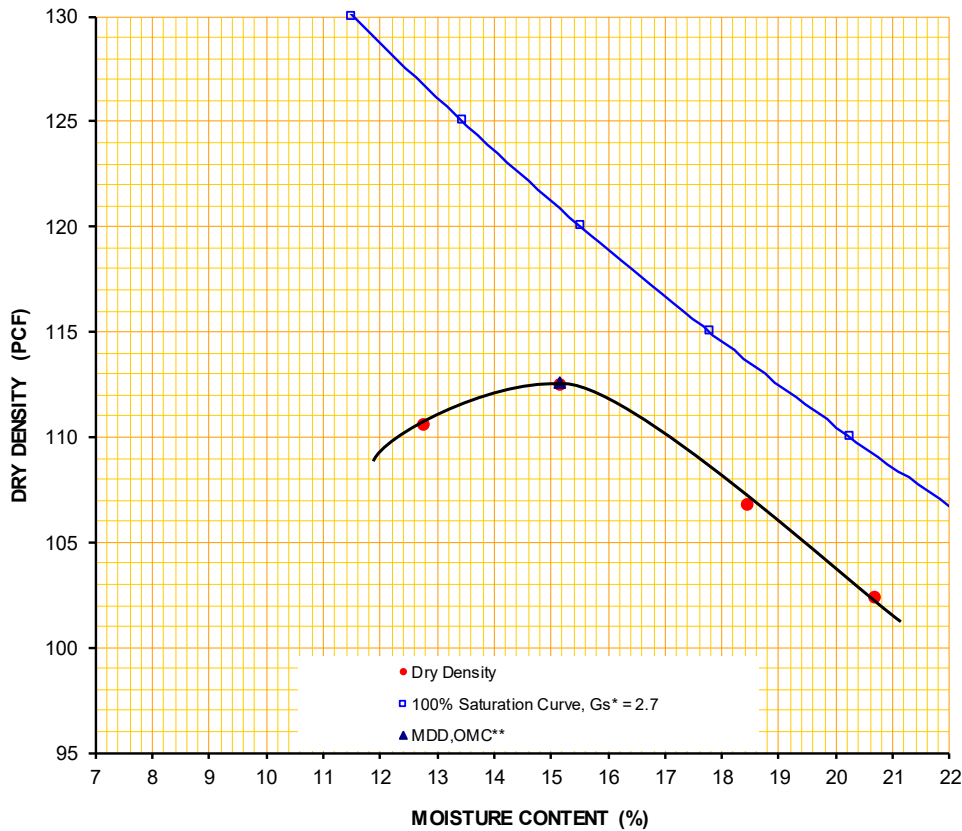
CME Report No.: 28062L-04-0724

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SAMPLE LOCATION:	TP-312; S-1	DATE SAMPLED:	5/2/24
SOIL CLASSIFICATION:	Brown SILT, little CLAY, trace fine SAND	SAMPLE NO.:	TP-312

Moisture - Density Relationship Curve



Particle Size Analysis ASTMD422

Sieve Size	% Passing
2"	100
1-1/2"	100
1"	100
3/4"	100
1/2"	100
3/8"	100
1/4"	100
No.4	100
No.10	100
No.20	100
No.40	100
No.80	99
No.100	99
No.200	98

Test Procedure Information

Test Method

Procedure Used

Preparation Method

Description of Rammer

☒ ASTM D-1557 (Modified) ☐ ASTM D-698 (Standard)

☐ A ☐ B ☒ C

☐ Dry ☒ Moist

☐ Manual ☒ Mechanical

Test Results

MDD (PCF) = 112.6
OMC (%) = 15.2

Oversize Fraction by Dry Weight

☒ 0 % Retained on ☐ No.4 Sieve ☐ 3/8" Sieve ☒ 3/4" Sieve

* Specific Gravity, estimated
** MDD = Maximum Dry Density, OMC = Optimum Moisture Content

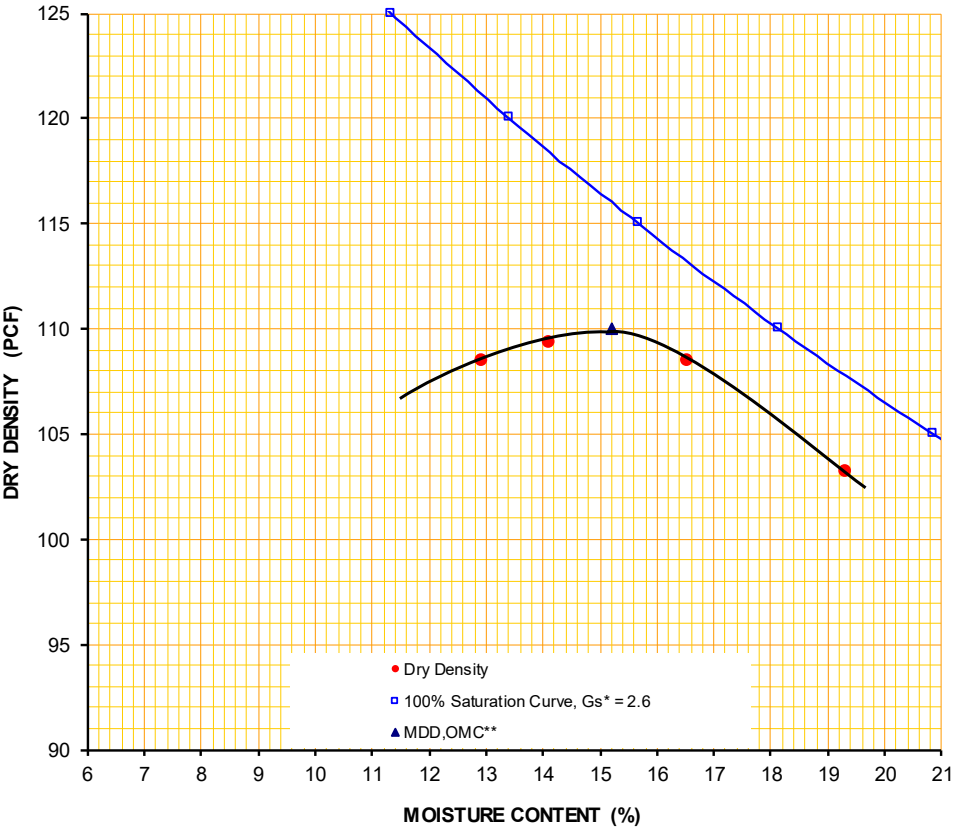
Laboratory Test Summary
CME Report No.: 28062L-04-0724
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SAMPLE LOCATION:	TP-315; S-1	DATE SAMPLED:	5/2/24
SOIL CLASSIFICATION:	Brown SILT, little CLAY, trace mf SAND	SAMPLE NO.:	TP-315

Moisture - Density Relationship Curve

Particle Size Analysis ASTMD422



Sieve Size	% Passing
2"	100
1-1/2"	100
1"	100
3/4"	100
1/2"	100
3/8"	100
1/4"	100
No.4	100
No.10	100
No.20	100
No.40	99
No.80	98
No.100	98
No.200	96

Test Procedure Information

Test Method ☒ ASTM D-1557 (Modified) ☐ ASTM D-698 (Standard)
Procedure Used ☐ A ☐ B ☒ C
Preparation Method ☐ Dry ☒ Moist
Description of Rammer ☐ Manual ☒ Mechanical

Test Results

MDD (pcf) = 110.0
OMC (%) = 15.2

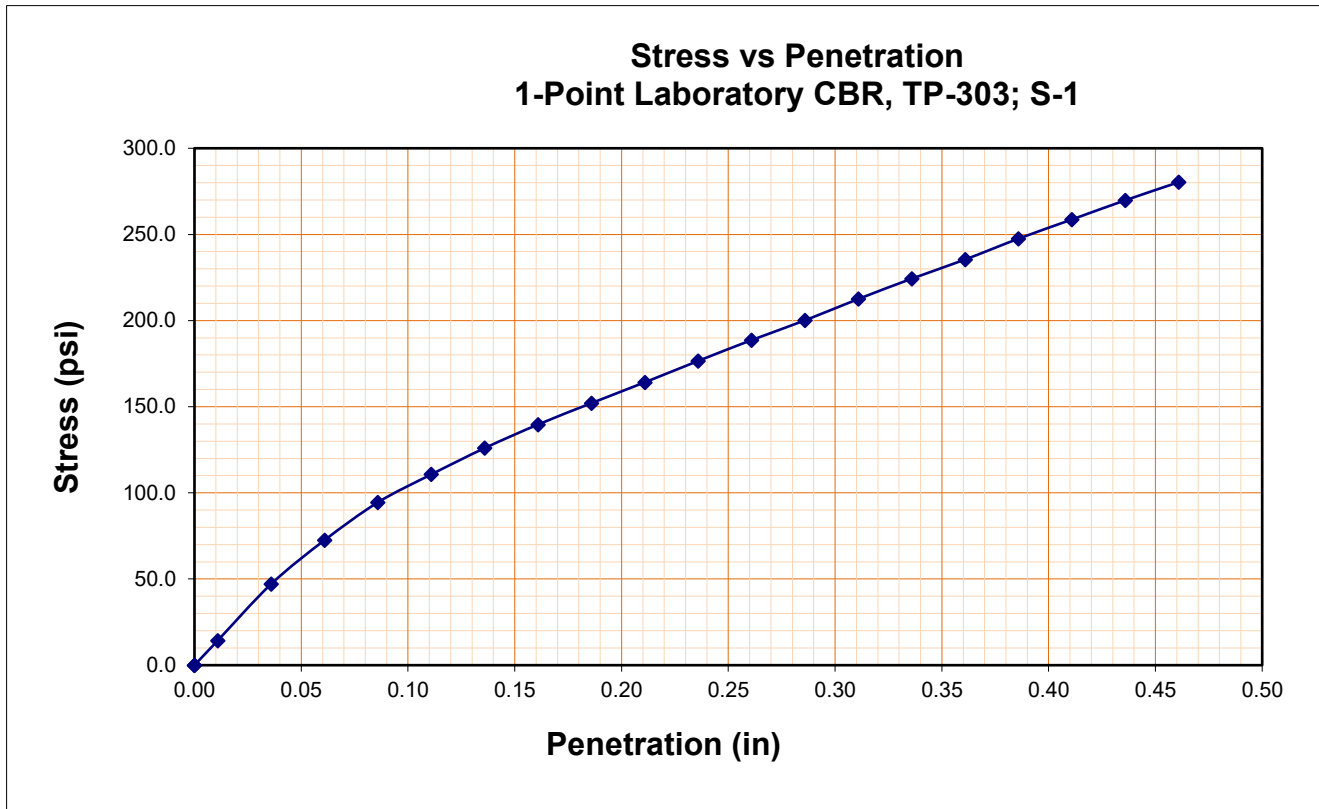
Oversize Fraction by Dry Weight
0 % Retained on ☐ No.4 Sieve ☐ 3/8" Sieve ☒ 3/4" Sieve

* Specific Gravity, estimated
** MDD = Maximum Dry Density, OMC = Optimum Moisture Content

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V. **CBR (California Bearing Ratio) of Laboratory-Compacted Soils (ASTM D1883)**

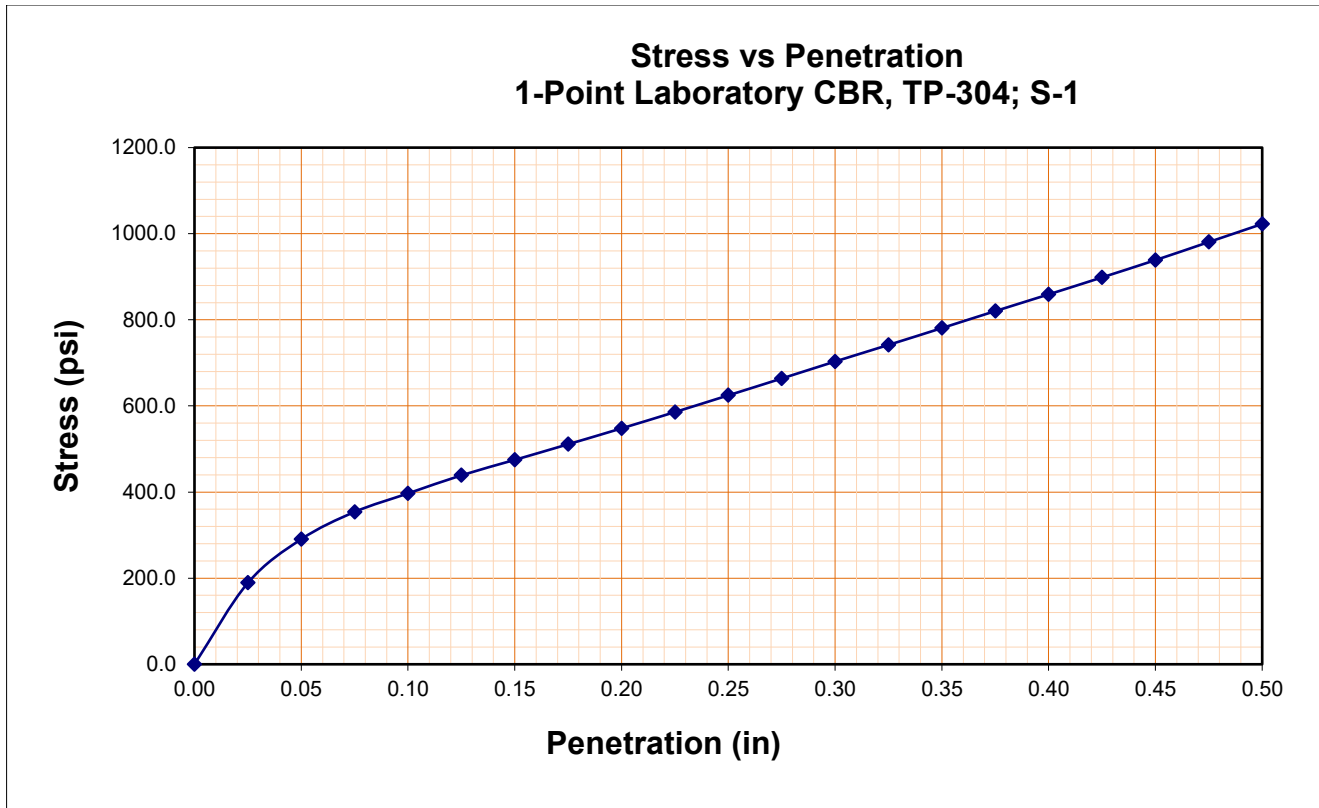


Burmister Classification:

Brown cmf SAND, some SILT, some cmf GRAVEL, little CLAY

As-Molded Moisture Content (%)	6.0
As-Molded Dry Density (pcf)	117.5
No. of Blows	37
Percent Compaction, ASTM D1557	93.4
Time Soaked (hrs)	96
Swell (%)	2.5
Moisture Content After Soaking (%)	
Top 1"	17.4
Center	14.7
Ring Capacity (lbs.)	6000
Soaked CBR @ 0.1	10.4
Soaked CBR @ 0.2	10.2
Surcharge Weight (lbs.)	10

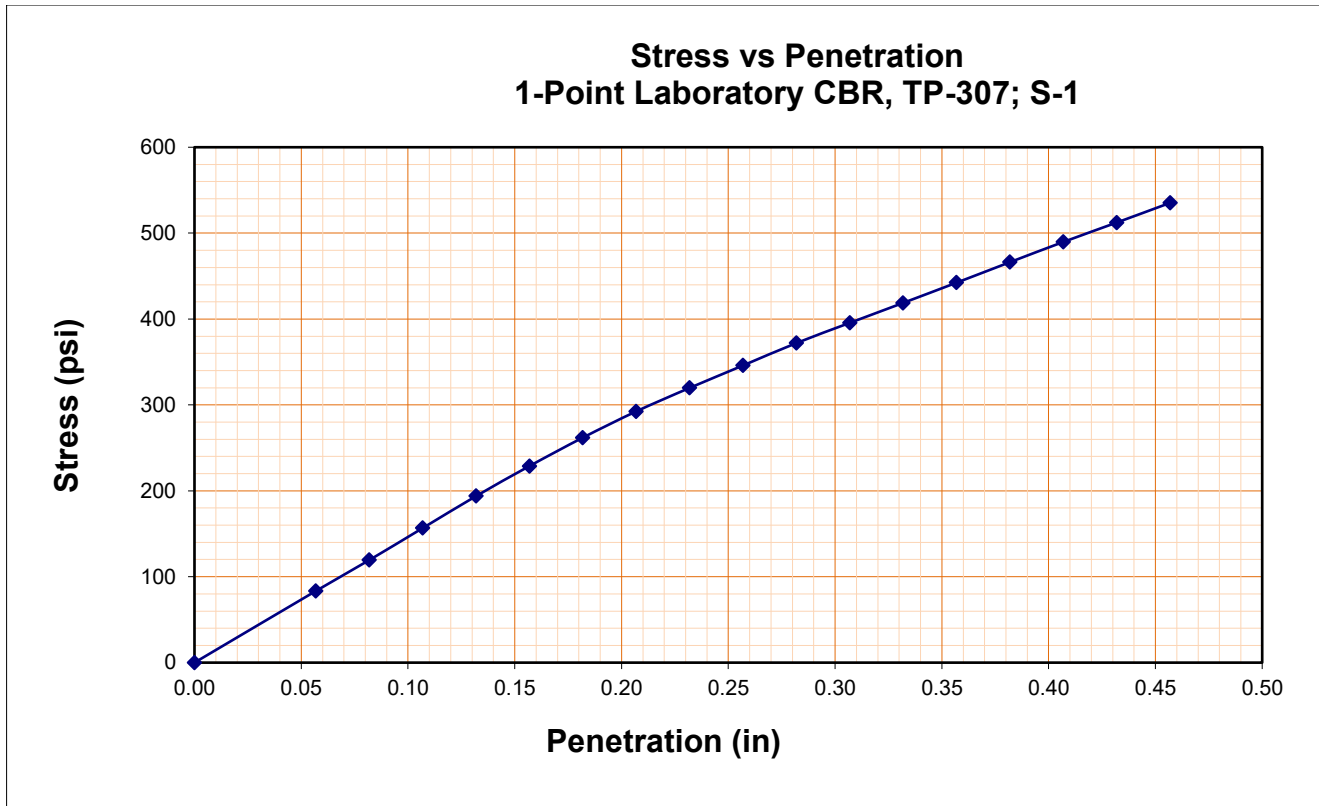
Laboratory Test Summary
 CME Report No.: 28062L-04-0724
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**Burmister Classification:**

Brown cmf SAND, some SILT, some cmf GRAVEL, trace CLAY

As-Molded Moisture Content (%)	9.7
As-Molded Dry Density (pcf)	118.6
No. of Blows	42
Percent Compaction, ASTM D1557	96.7
Time Soaked (hrs)	96
Swell (%)	0.2
Moisture Content After Soaking (%)	
Top 1"	12.6
Center	12.8
Ring Capacity (lbs.)	6000
Soaked CBR @ 0.1	39.7
Soaked CBR @ 0.2	36.5
Surcharge Weight (lbs.)	10

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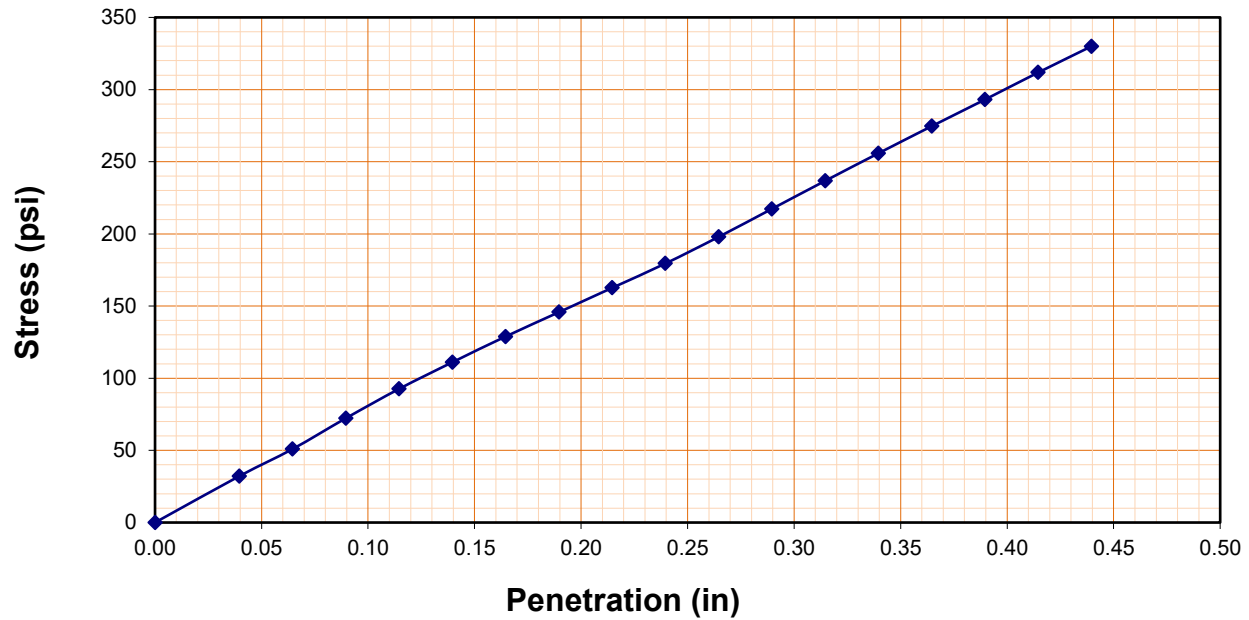
Burmister Classification: Brown SILT, little CLAY, trace mf SAND

As-Molded Moisture Content (%)	17.8
As-Molded Dry Density (pcf)	106.1
No. of Blows	40
Percent Compaction, ASTM D1557	96.3
Time Soaked (hrs)	96
Swell (%)	1.5
Moisture Content After Soaking (%)	
Top 1"	20.2
Center	18.7
Ring Capacity (lbs.)	6000
Soaked CBR @ 0.1	14.5
Soaked CBR @ 0.2	19.0
Surcharge Weight (lbs.)	10

Laboratory Test Summary
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Stress vs Penetration
1-Point Laboratory CBR, TP-312; S-1



Burmister Classification:

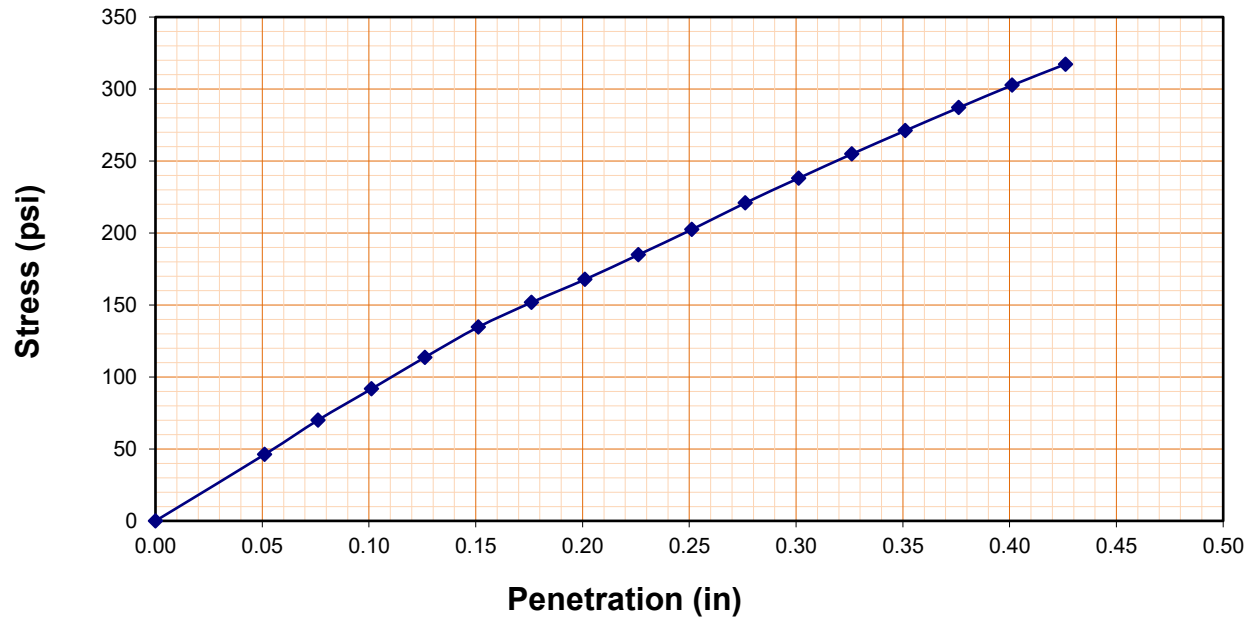
Brown SILT, little CLAY, trace fine SAND

As-Molded Moisture Content (%)	16.8
As-Molded Dry Density (pcf)	109.1
No. of Blows	37
Percent Compaction, ASTM D1557	96.9
Time Soaked (hrs)	96
Swell (%)	2.0
Moisture Content After Soaking (%)	
Top 1"	19.2
Center	18.3
Ring Capacity (lbs.)	6000
Soaked CBR @ 0.1	8.0
Soaked CBR @ 0.2	10.5
Surcharge Weight (lbs.)	10

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Stress vs Penetration
1-Point Laboratory CBR, TP-315; S-1



Burmister Classification:

Brown SILT, little CLAY, trace mf SAND

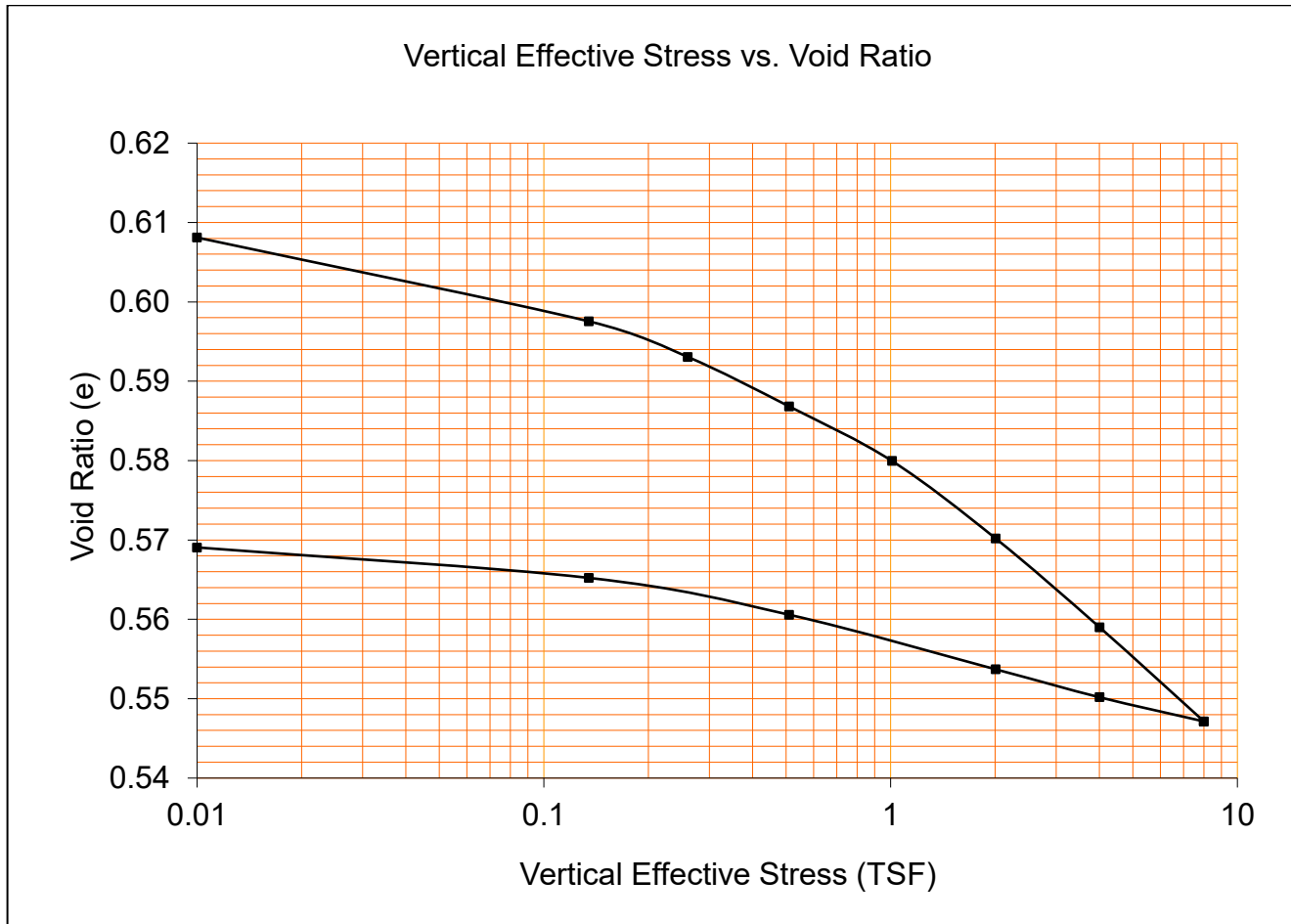
As-Molded Moisture Content (%)	16.3
As-Molded Dry Density (pcf)	105.5
No. of Blows	33
Percent Compaction, ASTM D1557	95.9
Time Soaked (hrs)	96
Swell (%)	1.9
Moisture Content After Soaking (%)	
Top 1"	20.0
Center	19.0
Ring Capacity (lbs.)	6000
Soaked CBR @ 0.1	9.2
Soaked CBR @ 0.2	11.2
Surcharge Weight (lbs.)	10

Laboratory Test Summary
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VI. One-Dimensional Consolidation Test (ASTM D2435)

1) Boring: B-617 Sample: ST-1 (Depth = 15.5')



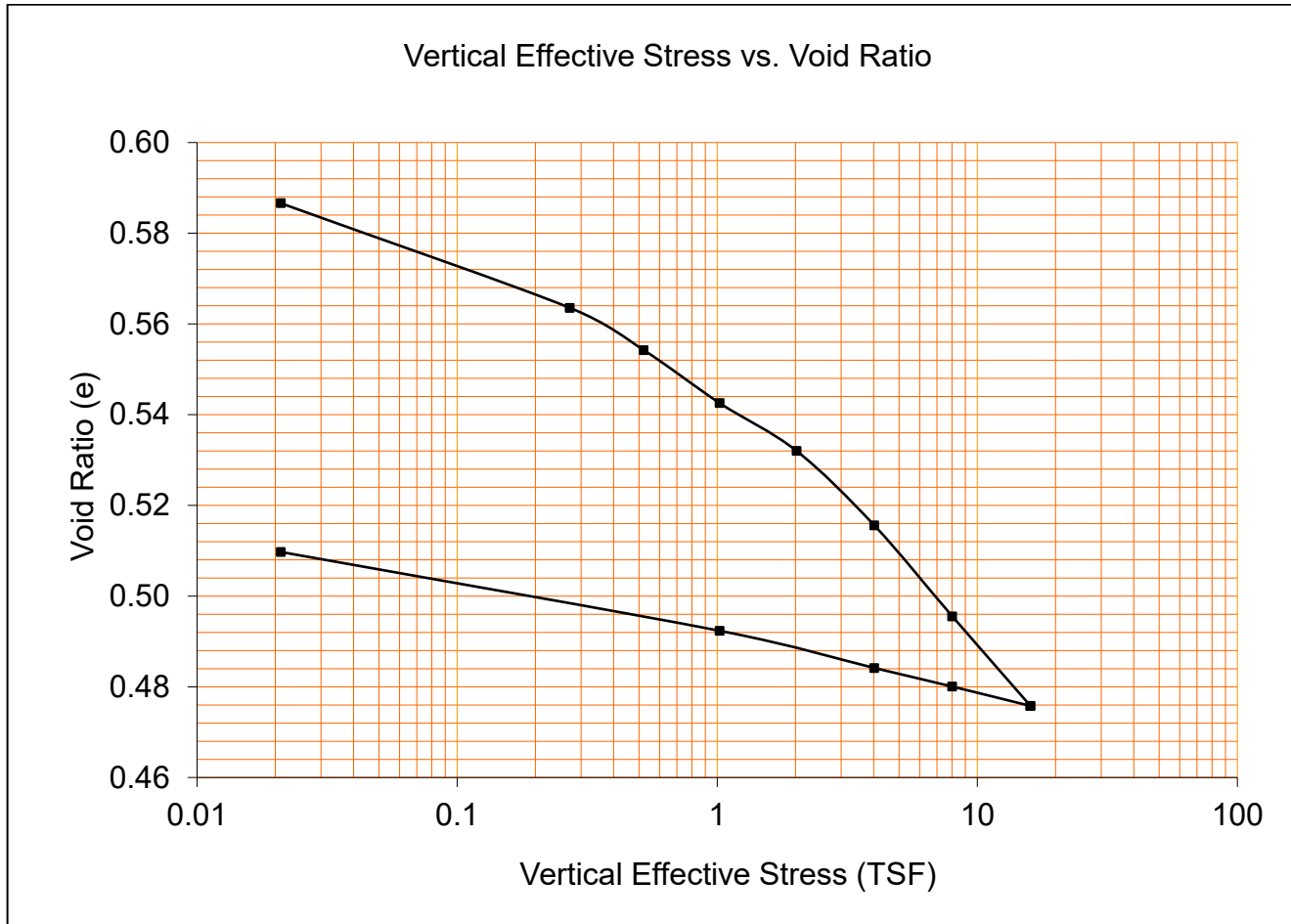
Pre-consolidation Pressure (P') = N.A. (Normally Consolidated)
Compression Index (Cc) = 0.05
Re-compression Index (Cr) = 0.01
Initial Void Ratio (e₀) = 0.58
Initial Water Content (W_n) = 22.17%
Dry Unit Weight Before Testing (γ_d) = 108.8 pcf
Specific Gravity = 2.76
Classification: = Brown/Grey SILT, little CLAY, trace cmf SAND
Coefficient of Consolidation (C_v):

Vertical Effective Stress (tsf)	Coefficient of Consolidation (C _v , ft ² /month)		
	Log of Time Method	Square Root of Time Method	Average
0.135	Not Obtainable	>100	>100
0.260	Not Obtainable	>100	>100
0.510	Not Obtainable	>100	>100
1.010	Not Obtainable	>100	>100
2.010	Not Obtainable	>100	>100
4.010	Not Obtainable	>100	>100
8.010	Not Obtainable	>100	>100

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2) Boring: B-623 Sample: ST-1 (Depth = 16.8')



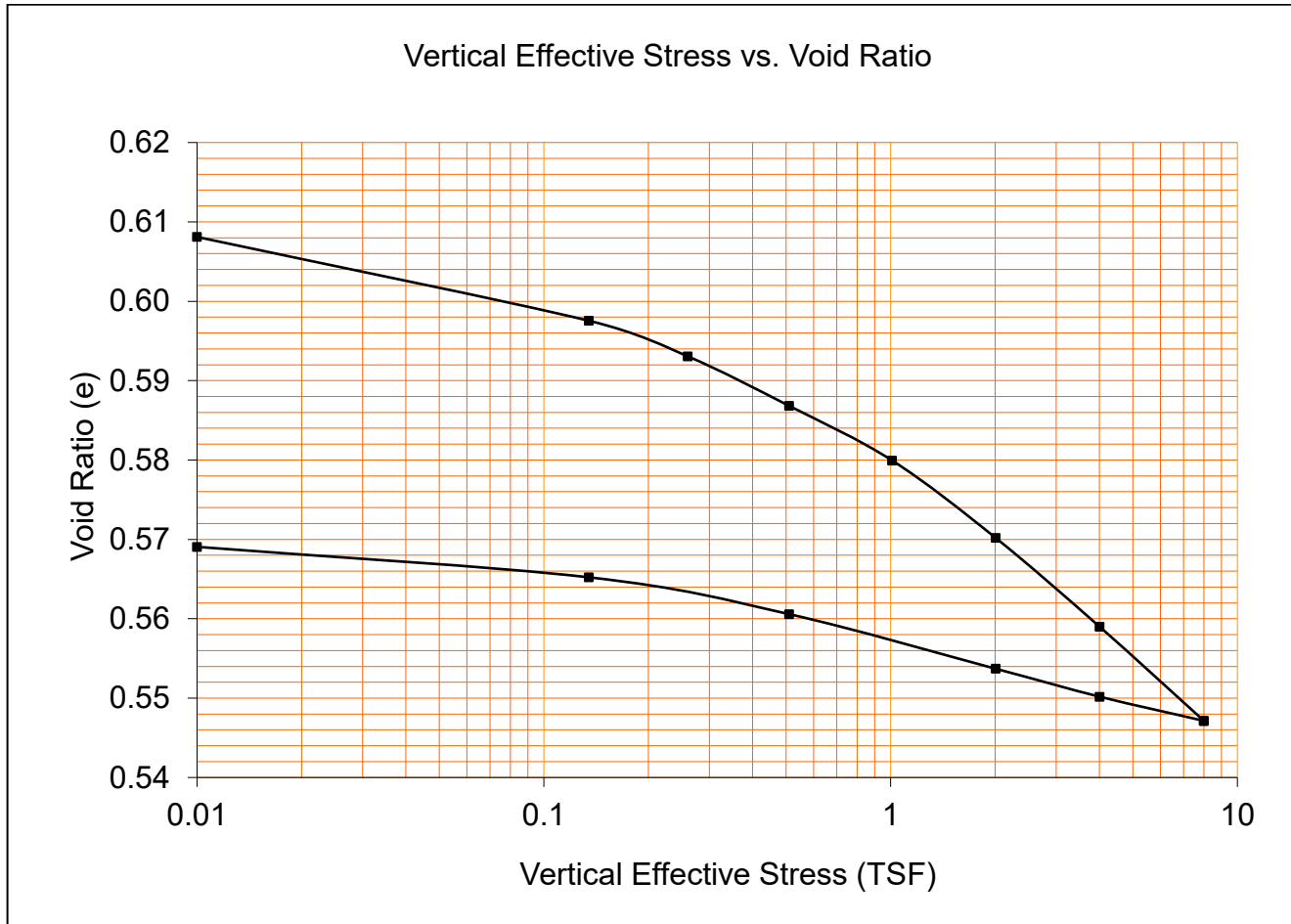
Pre-consolidation Pressure (P') = N.A. (Normally Consolidated)
Compression Index (C_c) = 0.06
Re-compression Index (C_r) = 0.01
Initial Void Ratio (e_0) = 0.59
Initial Water Content (W_n) = 23.2%
Dry Unit Weight Before Testing (γ_d) = 108.5 pcf
Specific Gravity = 2.76
Classification: = Grey SILT, little CLAY, trace fine SAND
Coefficient of Consolidation (C_v):

Vertical Effective Stress (tsf)	Coefficient of Consolidation (C_v , ft ² /month)		
	Log of Time Method	Square Root of Time Method	Average
0.271	Not Obtainable	65.13	65.13
0.521	Not Obtainable	12.31	12.31
1.021	Not Obtainable	16.28	16.28
2.021	Not Obtainable	65.13	65.13
4.021	Not Obtainable	>100	>100
8.021	Not Obtainable	90.15	90.15
16.021	Not Obtainable	95.85	95.85

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3) Boring: B-623 Sample: ST-2 (Depth = 16.5')



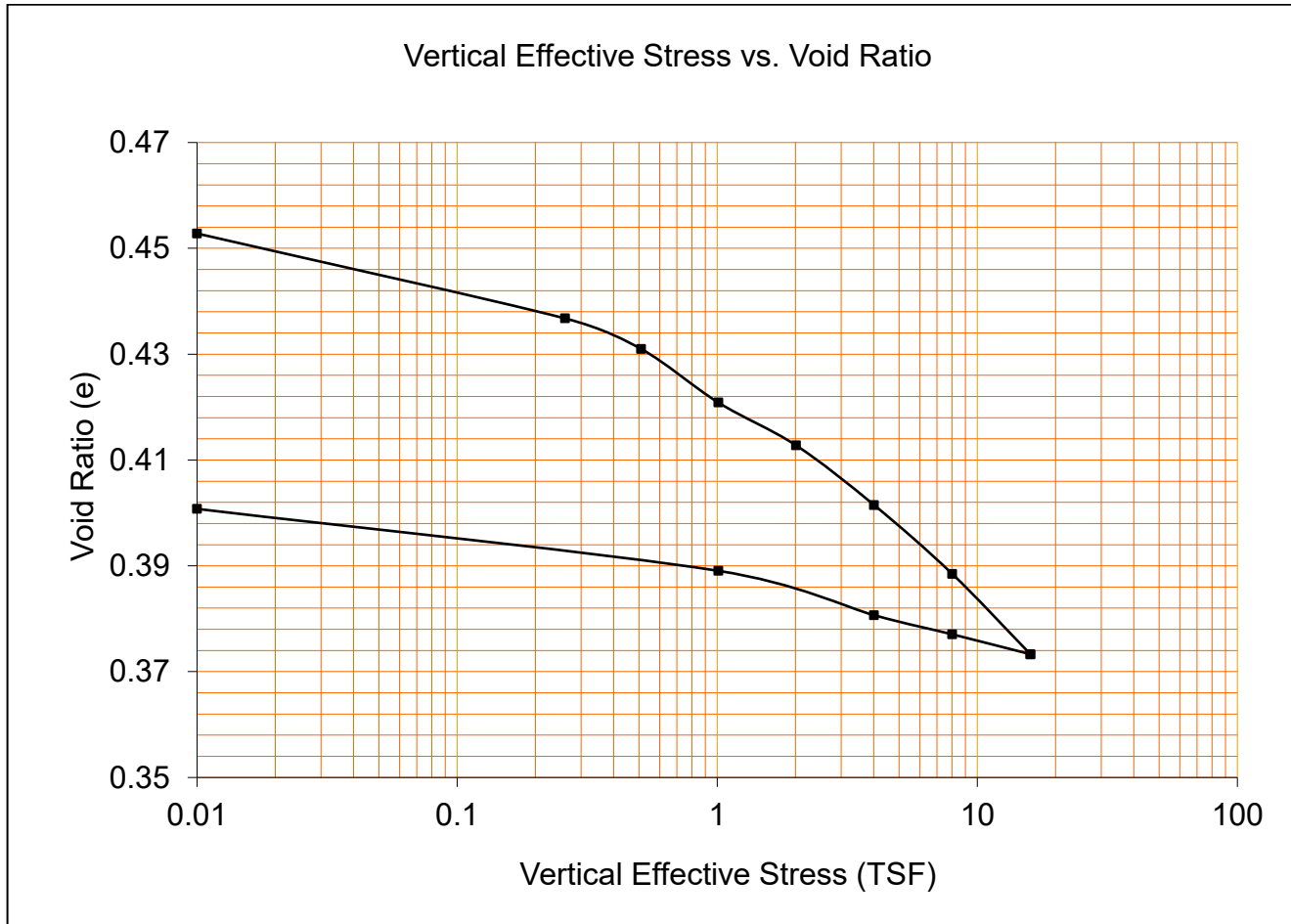
Pre-consolidation Pressure (P') = N.A. (Normally Consolidated)
Compression Index (C_c) = 0.04
Re-compression Index (C_r) = 0.01
Initial Void Ratio (e_0) = 0.61
Initial Water Content (W_n) = 18.84%
Dry Unit Weight Before Testing (γ_d) = 107.1 pcf
Specific Gravity = 2.76
Classification: = Grey SILT, little CLAY, trace fine SAND
Coefficient of Consolidation (C_v):

Vertical Effective Stress (tsf)	Coefficient of Consolidation (C_v , ft ² /month)		
	Log of Time Method	Square Root of Time Method	Average
0.135	Not Obtainable	>100	>100
0.260	Not Obtainable	>100	>100
0.510	Not Obtainable	>100	>100
1.010	Not Obtainable	>100	>100
2.010	Not Obtainable	>100	>100
4.010	Not Obtainable	>100	>100
8.010	Not Obtainable	>100	>100

Laboratory Test Summary
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4) Boring: B-624 Sample: ST-1 (Depth = 19.4')



Pre-consolidation Pressure (P') = N.A. (Normally Consolidated)
Compression Index (Cc) = 0.05
Re-compression Index (Cr) = 0.01
Initial Void Ratio (eo) = 0.45
Initial Water Content (Wn) = 20.7%
Dry Unit Weight Before Testing (γ_d) = 112.4 pcf
Specific Gravity = 2.62
Classification: = Grey SILT, little CLAY, trace fine SAND
Coefficient of Consolidation (Cv):

Vertical Effective Stress (tsf)	Coefficient of Consolidation (Cv, ft ² /month)		
	Log of Time Method	Square Root of Time Method	Average
0.26	Not Obtainable	90.15	90.15
0.51	Not Obtainable	45.23	45.23
1.01	Not Obtainable	80.41	80.41
2.01	Not Obtainable	>100	>100
4.01	Not Obtainable	72.17	72.17
8.01	Not Obtainable	53.83	53.83
16.01	Not Obtainable	95.85	95.85

Laboratory Test Summary
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VII. Rock Core Compression (ASTM D7012 Method C)

A) Testing Conditions:

Tested by: G.C.	Moisture Condition: Laboratory air-dry	Equipment: Forney QC-400-DR
Date of Test: 6/24/2024	Load Direction: Generally perpendicular to laminations	

B) Core Identification and Location:

Core ID	Location	Description
B-511; R-1	15.0'-15.5'	Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 1/4" thick), slightly to moderately weathered, thinly laminated to thinly bedded, hard.
B-518; R-1	18.2'-18.7'	Dark Grey SHALE with DOLOSTONE layers (<1/8" - 1.0" thick), slightly to moderately weathered, thinly laminated to medium hard.
B-518; R-2	22.3'-23.1'	Dark Grey SHALE with DOLOSTONE layers (<1/8" - 2.0" thick), slightly to moderately weathered, thinly laminated to medium bedded, medium hard to hard.
B-523; R-1	15.5'-16.0'	Grey DOLOSTONE with interbedded SHALE (<1/8" - 4.0" thick), slightly weathered, thinly laminated to thinly bedded, medium to hard.
B-544; R-1	18.7'-19.3'	Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 2.0" thick), slightly weathered, thinly laminated to thinly bedded, hard.
B-547; R-1	22.1'-22.6'	Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 1" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard.
B-547; R-2	28.8'-29.4'	Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 2" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard.
B-549; R-1	29.1'-29.6'	Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 2" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard.
B-561; R-1	20.8'-21.3'	Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 2" thick), thinly laminated to thinly bedded, hard.
B-565; R-1	22.5'-23.0'	Grey DOLOSTONE with interbedded SHALE layers (<1/8" to 1" thick), thinly laminated to medium bedded, hard.
B-595; R-2	24.1'-24.6'	Grey DOLOSTONE with SHALE layers (<1/8" - 3.0" thick), slightly weathered, thinly laminated to medium bedded, medium hard to hard.
B-604; R-1	26.7'-27.2'	Gray SHALE, weathered, bedded, hard.
B-688; R-1	17.8'-18.3'	Grey DOLOSTONE with interbedded SHALE (1/8" - 1.0" thick), slightly weathered, thinly laminated to medium bedded, medium hard to hard.

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C) Core Measurements:

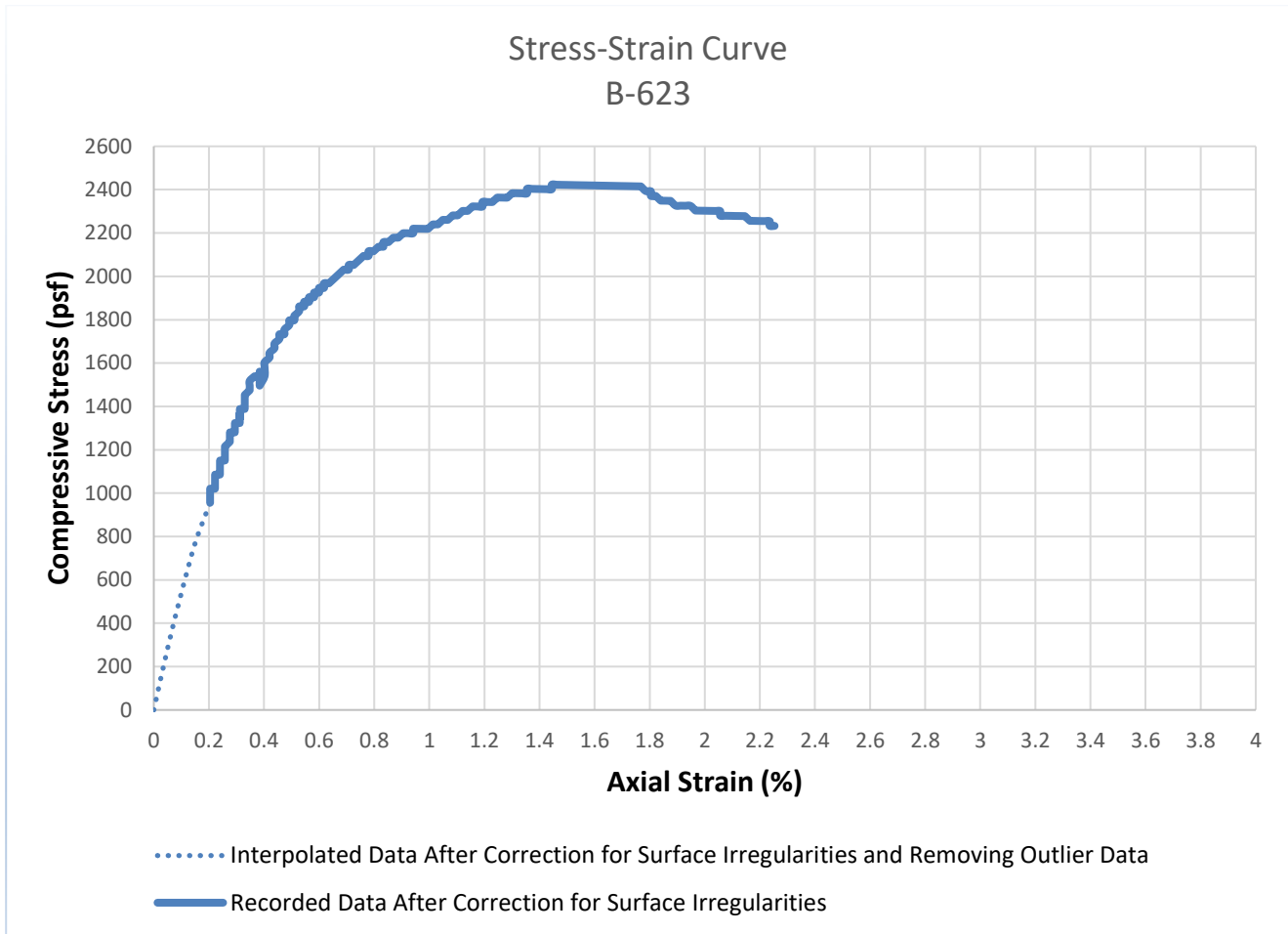
Core ID	Core Diameter (inch)	Length (in.)	Length to Diameter	Mass (g)	Density (lb./ft ³)
B-511; R-1	1.97	4.00	2.03	566.54	176
B-518; R-1	1.97	3.23	1.64	425.57	165
B-518; R-2	1.97	3.96	2.01	532.24	168
B-523; R-2	1.97	4.01	2.03	557.14	174
B-544; R-1	1.97	3.08	1.56	421.61	171
B-547; R-1	1.97	4.04	2.05	573.46	165
B-547; R-2	1.97	4.03	2.04	555.44	172
B-549; R-1	1.97	3.97	2.01	535.69	169
B-561; R-1	1.97	3.98	2.02	549.35	172
B-565; R-1	1.97	4.01	2.05	560.26	175
B-595; R-2	1.97	3.91	1.98	538.38	171
B-604; R-1	1.97	3.92	1.98	545.93	174
B-688; R-1	1.97	3.92	1.98	550.22	175

D) Compression Test Results:

Core ID	Specimen Area (inch ²)	Total Load (lbs.)	Compressive Strength (psi)	Temperature (°C)	Time to Failure (seconds)	Rate of Loading (psi/sec)
B-511; R-1	3.05	62,000	20,330	22	66	307
B-518; R-1	3.05	9,200	3,020	22	48	63
B-518; R-2	3.05	14,800	4,850	22	49	99
B-523; R-2	3.05	19,800	6,490	22	55	118
B-544; R-1	3.05	17,000	5,570	22	30	186
B-547; R-1	3.05	25,200	8,260	22	39	212
B-547; R-2	3.05	22,000	7,210	22	34	214
B-549; R-1	3.05	11,000	3,610	22	47	77
B-561; R-1	3.05	15,600	5,110	22	44	115
B-565; R-1	3.05	31,000	10,160	22	40	252
B-595; R-2	3.05	29,000	9,510	22	37	257
B-604; R-1	3.05	25,800	8,460	22	45	188
B-688; R-1	3.05	40,000	13,110	22	63	210

VIII. Unconfined Compressive Strength of Cohesive Soil (ASTM 2166)

1) Boring: B-623 Sample depth = 16.0'-16.5' below grade



Initial Dry Density = 112.7 pcf
Water Content = 23.2 %
Unconfined Compressive Strength = 2420 psf

Average Height	= 5.56 in
Average Diameter	= 2.88 in
Height-to-Diameter Ratio	= 1.9
Strain Rate	= 0.26 %/min
Strain at Failure	= 1.44 %

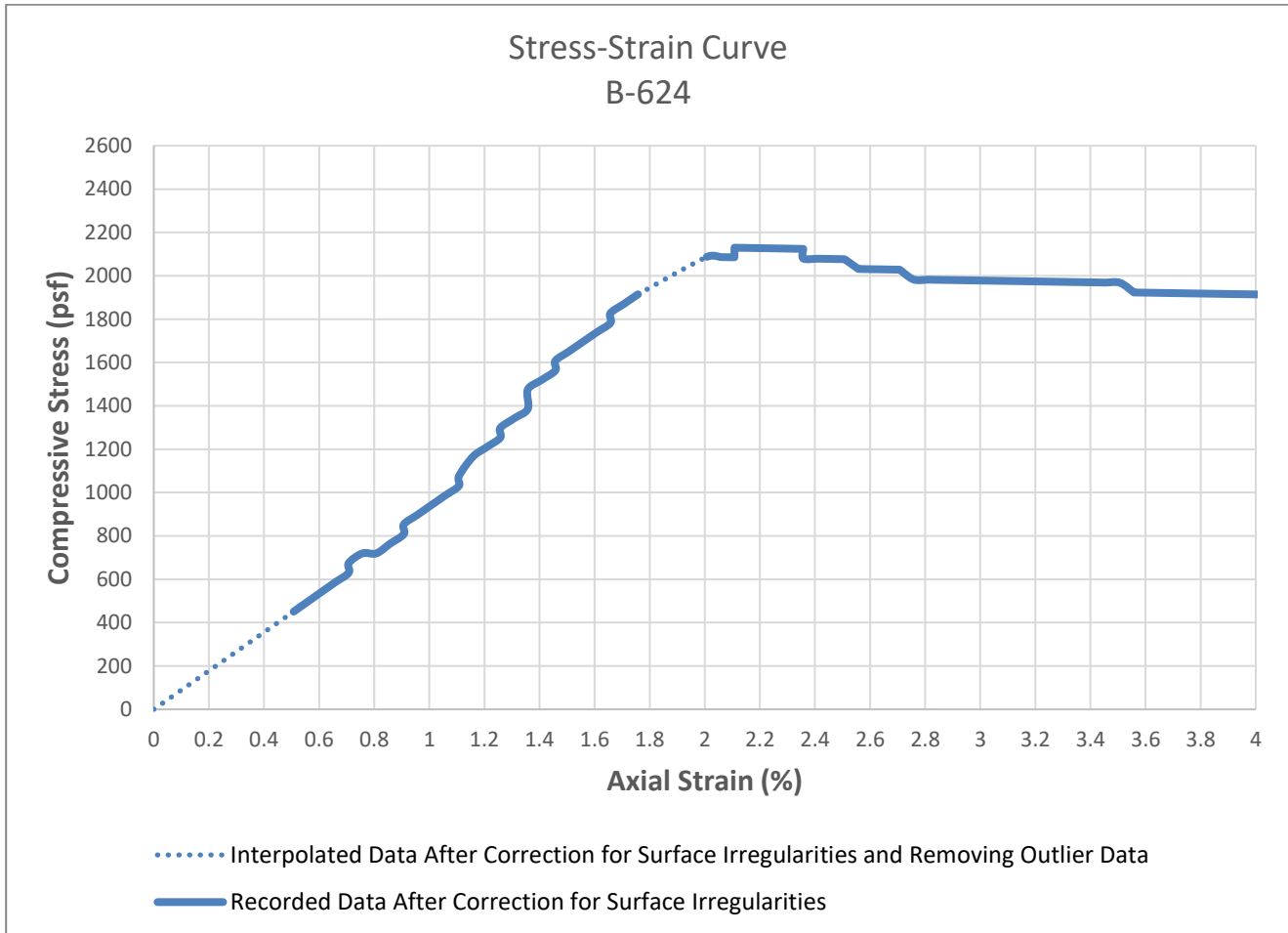
Note: Sample experienced slumping during sample preparation.



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2) Boring: B-624 Sample depth = 19.0'-19.5' below grade



Initial Dry Density = 121.0 pcf
Water Content = 20.7 %
Unconfined Compressive Strength = 2130 psf

Average Height = 2.00 in
Average Length = 1.78 in
Height-to-Length Ratio = 1.1
Strain Rate = 1.30 %/min
Strain at Failure = 2.11 %

Note: Sample experienced significant slumping during sample preparation. A cube sample was prepared after the cylindrical sample could not support its own weight.



If you have any questions regarding this report please contact our office.

Hannah Kloiber
 Hannah Kloiber
 Laboratory Supervisor

Attachment: Rock Core Photographs (7 of 7)

Attachment to Laboratory Test Summary
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B-511; R-1 Before Compression



B-511; R-1 After Compression



B-518; R-1 Before Compression



B-518; R-1 After Compression

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B-518; R-2 Before Compression



B-518; R-2 After Compression



B-523; R-1 Before Compression



B-523; R-1 After Compression

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B-544; R-1 Before Compression



B-544; R-1 After Compression



B-547; R-1 Before Compression



B-547; R-1 After Compression

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B-547; R-2 Before Compression



B-547; R-2 After Compression



B-549; R-1 Before Compression



B-549; R-1 After Compression

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B-561; R-1 Before Compression



B-561; R-1 After Compression



B-565; R-1 Before Compression



B-565; R-1 After Compression

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B-595; R-1 Before Compression



B-595; R-1 After Compression



B-604; R-1 Before Compression



B-604; R-1 After Compression

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B-688; R-1 Before Compression



B-688; R-1 After Compression

INFILTRATION TEST REPORTS**Test ID: IT-TP301**

Project:	Micron Campus Clay, NY	CME Project No.:	28062
		Test Date:	05/02/24
Client:	Ramboll	Test Location:	Near Test Pit TP-301
		Technician:	Astitwa Sharma, EIT

Test Preparation and DimensionsCasing Installed in: ☒ Test Pit ☐ BoreholeCasing Diameter and Type: 3 inch I.D. HDPEA Existing Grade Elevation (ft): 403.1 ±B Casing Stickup Length Above Grade (ft): 4.00C Top of Casing Elevation (ft): (A+B)= 407.1 ±D Depth to Bottom of Test Hole, Below Top of Casing (ft): 7.90E Bottom of Test Hole Elevation: (C-D)= 399.2 ±Burmister Classification of Soil at Bottom of Hole: Brown mottled SILT, some cmf SAND, some cmf GRAVEL, trace COBBLESThickness&Type of Scour/Sediment Protection Layer Installed: 3"Date and Time Pre-Soaked:..... 05/01/24 Time: 13:18

Depth to Water Level, Below Top of Casing

Just After Pre-Soak Filling (ft): 5.85Just Prior to First Test Filling (ft): 6.40 Date: 05/02/24 Time: 13:10**Test Observations**

Run 1			Run 2			Run 3			Run 4		
Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)
13:14	0:00	5.85		0:00			0:00			0:00	
13:15	0:01	5.85		0:01			0:01			0:01	
13:16	0:02	5.85		0:02			0:02			0:02	
13:17	0:03	5.85		0:03			0:03			0:03	
13:19	0:05	5.85		0:05			0:05			0:05	
13:24	0:10	5.85		0:10			0:10			0:10	
13:29	0:15	5.85		0:15			0:15			0:15	
13:44	0:30	5.85		0:30			0:30			0:30	
13:59	0:45	5.85		0:45			0:45			0:45	
14:14	1:00	5.85		1:00			1:00			1:00	

Test Results

Run:	Run 1	Run 2	Run 3	Run 4
Infiltration Rate (feet/hour):	0.00			
Infiltration Rate (inches/hour):	0.00			

Final Infiltration Rate (inches/hour): 0.00☐ Based on average of all four runs☒ Based on result of last run**Note(s)**

- Test performed in general conformance with NYS Stormwater Management Design Manual, Appendix D: Infiltration Testing Requirements.
- No infiltration noted after Run 1, infiltration testing was suspended at this location.

INFILTRATION TEST REPORTS



Test ID: IT-TP302			
Project:	Micron Campus Clay, NY	CME Project No.:	28062
		Test Date:	05/02/24
Client:	Ramboll	Test Location:	Near Test Pit TP-302
		Technician:	Astitwa Sharma, EIT

Test Preparation and Dimensions

Casing Installed in: ☒ Test Pit ☐ Borehole

Casing Diameter and Type: 3 inch I.D. HDPE

A Existing Grade Elevation (ft): 398.9 ±

B Casing Stickup Length Above Grade (ft): 3.60

C Top of Casing Elevation (ft): (A+B)= 402.5 ±

D Depth to Bottom of Test Hole, Below Top of Casing (ft): 7.80

E Bottom of Test Hole Elevation: (C-D)= 394.7 ±

Burmister Classification of Soil at Bottom of Hole: Grey/Brown cmf SAND, some SILT, some COBBLES, little cmf GRAVEL

Thickness&Type of Scour/Sediment Protection Layer Installed: 4"

Date and Time Pre-Soaked:..... 05/01/24 Time: 13:30

Depth to Water Level, Below Top of Casing

Just After Pre-Soak Filling (ft): 5.65

Just Prior to First Test Filling (ft): 5.65 Date: 5/2/2024 Time: 13:45

Test Observations

Run 1			Run 2			Run 3			Run 4		
Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)
	0:00			0:00			0:00			0:00	
	0:01			0:01			0:01			0:01	
	0:02			0:02			0:02			0:02	
	0:03			0:03			0:03			0:03	
	0:05			0:05			0:05			0:05	
	0:10			0:10			0:10			0:10	
	0:15			0:15			0:15			0:15	
	0:30			0:30			0:30			0:30	
	0:45			0:45			0:45			0:45	
	1:00			1:00			1:00			1:00	

Test Results

Run:	Run 1	Run 2	Run 3	Run 4
Infiltration Rate (feet/hour):				
Infiltration Rate (inches/hour):				

Final Infiltration Rate (inches/hour): 0.00
☐ Based on average of all four runs

☒ Based on result of last run
Note(s)

- Test performed in general conformance with NYS Stormwater Management Design Manual, Appendix D: Infiltration Testing Requirements.
- No infiltration noted 24 hours after presoak on 05/01/24, infiltration testing was suspended at this location.

INFILTRATION TEST REPORTS



Test ID: IT-TP305			
Project:	Micron Campus Clay, NY	CME Project No.:	28062
		Test Date:	05/02/24
Client:	Ramboll	Test Location:	Near Test Pit TP-305
		Technician:	Astitwa Sharma, EIT

Test Preparation and Dimensions

Casing Installed in: ☒ Test Pit ☐ Borehole

Casing Diameter and Type: 3 inch I.D. HDPE

A Existing Grade Elevation (ft): 404.0 ±

B Casing Stickup Length Above Grade (ft): 3.90

C Top of Casing Elevation (ft): (A+B)= 407.9 ±

D Depth to Bottom of Test Hole, Below Top of Casing (ft): 7.80

E Bottom of Test Hole Elevation: (C-D)= 400.1 ±

Burmister Classification of Soil at Bottom of Hole: Dark Brown mottled cmf SAND, some SILT,
some cmf GRAVEL, little COBBLES

Thickness&Type of Scour/Sediment Protection Layer Installed: 4"

Date and Time Pre-Soaked:..... 05/01/24 Time: 13:45

Depth to Water Level, Below Top of Casing

Just After Pre-Soak Filling (ft): 5.90

Just Prior to First Test Filling (ft): 0.00 Date: 5/2/2024 Time: 14:02

Test Observations

Run 1			Run 2			Run 3			Run 4		
Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)
14:08	0:00	5.70		0:00			0:00			0:00	
14:09	0:01	5.70		0:01			0:01			0:01	
14:10	0:02	5.70		0:02			0:02			0:02	
14:11	0:03	5.70		0:03			0:03			0:03	
14:13	0:05	5.70		0:05			0:05			0:05	
14:18	0:10	5.70		0:10			0:10			0:10	
14:23	0:15	5.70		0:15			0:15			0:15	
14:38	0:30	5.70		0:30			0:30			0:30	
14:53	0:45	5.70		0:45			0:45			0:45	
15:08	1:00	5.70		1:00			1:00			1:00	

Test Results

Run:	Run 1	Run 2	Run 3	Run 4
Infiltration Rate (feet/hour):	0.00			
Infiltration Rate (inches/hour):	0.00			

Final Infiltration Rate (inches/hour): 0.00
☐ Based on average of all four runs

☒ Based on result of last run

- Note(s)**
- Test performed in general conformance with NYS Stormwater Management Design Manual, Appendix D: Infiltration Testing Requirements.
 - No infiltration noted after Run 1, infiltration testing was suspended at this location.

INFILTRATION TEST REPORTS



Test ID: IT-B565			
Project:	Micron Campus Clay, NY	CME Project No.:	28062
		Test Date:	04/30/24
Client:	Ramboll	Test Location:	Near Test Boring B-565
		Technician:	Astitwa Sharma, EIT

Test Preparation and Dimensions

Casing Installed in: ☐ Test Pit ☒ Borehole

Casing Diameter and Type: 3 inch I.D. HDPE

A Existing Grade Elevation (ft): 381.2 ±

B Casing Stickup Length Above Grade (ft): 1.75

C Top of Casing Elevation (ft): (A+B)= 383.0 ±

D Depth to Bottom of Test Hole, Below Top of Casing (ft): 7.00

E Bottom of Test Hole Elevation: (C-D)= 376.0 ±

Burmister Classification of Soil at Bottom of Hole: Light Brown/Grey SILT, trace fine SAND

Thickness&Type of Scour/Sediment Protection Layer Installed: 3"

Date and Time Pre-Soaked:..... 04/30/24 Time: 11:30

Depth to Water Level, Below Top of Casing

Just After Pre-Soak Filling (ft): 4.80

Just Prior to First Test Filling (ft): 2.60 Date: 5/3/2024 Time: 13:56

Test Observations

Run 1			Run 2			Run 3			Run 4		
Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)
	0:00			0:00			0:00			0:00	
	0:01			0:01			0:01			0:01	
	0:02			0:02			0:02			0:02	
	0:03			0:03			0:03			0:03	
	0:05			0:05			0:05			0:05	
	0:10			0:10			0:10			0:10	
	0:15			0:15			0:15			0:15	
	0:30			0:30			0:30			0:30	
	0:45			0:45			0:45			0:45	
	1:00			1:00			1:00			1:00	

Test Results

Run:	Run 1	Run 2	Run 3	Run 4
Infiltration Rate (feet/hour):				
Infiltration Rate (inches/hour):				

Final Infiltration Rate (inches/hour): 0.00
☐ Based on average of all four runs

☒ Based on result of last run
Note(s)

- Test performed in general conformance with NYS Stormwater Management Design Manual, Appendix D: Infiltration Testing Requirements.
- Water level rose 72 hours after presoak on 04/30/24, presoak water did not infiltrate, infiltration testing was suspended at this location.

INFILTRATION TEST REPORTS



Test ID: IT-B611			
Project:	Micron Campus Clay, NY	CME Project No.:	28062
		Test Date:	05/03/24
Client:	Ramboll	Test Location:	Near Test Boring B-611
		Technician:	Astitwa Sharma, EIT

Test Preparation and Dimensions

Casing Installed in: ☐ Test Pit ☒ Borehole

Casing Diameter and Type: 3 inch I.D. HDPE

A Existing Grade Elevation (ft): 380.6 ±

B Casing Stickup Length Above Grade (ft): 1.70

C Top of Casing Elevation (ft): (A+B)= 382.3 ±

D Depth to Bottom of Test Hole, Below Top of Casing (ft): 6.17

E Bottom of Test Hole Elevation: (C-D)= 376.1 ±

Burmister Classification of Soil at Bottom of Hole: Light Brown SILT, trace fine SAND

Thickness&Type of Scour/Sediment Protection Layer Installed: 3"

Date and Time Pre-Soaked:..... 04/30/24 Time: 10:30

Depth to Water Level, Below Top of Casing

Just After Pre-Soak Filling (ft): 2.20

Just Prior to First Test Filling (ft): 2.20 Date: 5/3/2024 Time: 14:10

Test Observations

Run 1			Run 2			Run 3			Run 4		
Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)
	0:00			0:00			0:00			0:00	
	0:01			0:01			0:01			0:01	
	0:02			0:02			0:02			0:02	
	0:03			0:03			0:03			0:03	
	0:05			0:05			0:05			0:05	
	0:10			0:10			0:10			0:10	
	0:15			0:15			0:15			0:15	
	0:30			0:30			0:30			0:30	
	0:45			0:45			0:45			0:45	
	1:00			1:00			1:00			1:00	

Test Results

Run:	Run 1	Run 2	Run 3	Run 4
Infiltration Rate (feet/hour):				
Infiltration Rate (inches/hour):				

Final Infiltration Rate (inches/hour): 0.00
☐ Based on average of all four runs

☒ Based on result of last run
Note(s)

- Test performed in general conformance with NYS Stormwater Management Design Manual, Appendix D: Infiltration Testing Requirements.
- No infiltration noted 72 hours after presoak on 04/30/24, infiltration testing was suspended at this location.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522				SUBSURFACE EXPLORATION TEST PIT LOG			Test Pit ID	TP-301
							Page No.	1 of 1
							Project No.	28062
Project Name: Micron Campus, Clay, New York							Date Started	05/01/24
Client: Ramboll							Date Finished	05/01/24
Location: See Exploration Location Plan							Surface Elev.	403.0'
METHOD OF INVESTIGATION					GROUNDWATER OBSERVATIONS			
Operator: Daryl Sherman					Date	Time	Depth (Ft.)	Comment
Inspector: Astitwa Sharma, EIT					05/01/24	9:44	6	Water seeping through side walls
Equipment: Link Belt Model LNK 27 Excavator								
Bucket Type: Toothed								
Bucket Width: 24"								
VISUAL CLASSIFICATION OF MATERIAL								
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0				1	Topsoil and Organic Material (moist, easy digging)			
1					Brown mottled SILT, some cmf SAND, some cmf GRAVEL, trace COBBLES (moist, easy to moderate digging)			
2								
3								
4								
5								
6					Bottom of Test Pit @ 6'. Remark 3			
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
Remarks: 1. See Test Pit Photographs, attached. 2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth. 3. Grey possible bedrock surface observed at 6 feet below grade. Test Pit Terminated after difficulty noted in digging through possible bedrock.								

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID	TP-302
				Page No.	1 of 1
				Project No.	28062
Project Name:	Micron Campus, Clay, New York			Date Started	05/01/24
Client:	Ramboll			Date Finished	05/01/24
Location:	See Exploration Location Plan			Surface Elev.	398.9'
METHOD OF INVESTIGATION				GROUNDWATER OBSERVATIONS	
Operator:	Daryl Sherman			Date	Time
Inspector:	Astitwa Sharma, EIT			05/01/24	10:40
Equipment:	Link Belt Model LNK 27 Excavator			05/01/24	10:45
Bucket Type:	Toothed				
Bucket Width:	24"				
VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%
0				0.5	Topsoil and Organic Material (moist, easy digging) Brown mottled cmf SAND, some SILT, some cmf GRAVEL, little COBBLES (moist, easy to moderate digging) <i>Boulder noted at about 1' below grade</i>
1					
2					
3				3.5	Grey/Brown cmf SAND, some SILT, some COBBLES, little cmf GRAVEL (saturated, hard digging) <i>Weathered Flat + Elongated Ledge Rock Boulders noted</i>
4					
5					Bottom of Test Pit @ 5'. Remark 3
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
Remarks: 1. See Test Pit Photographs, attached. 2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth. 3. Dark grey weathered rock observed at about 5 feet below grade. Test Pit terminated after difficulty noted in digging through weathered rock.					

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID		TP-303			
				Page No.		1 of 1			
				Project No.		28062			
Project Name:		Micron Campus, Clay, New York				Date Started		05/01/24	
Client:		Ramboll				Date Finished		05/01/24	
Location:		See Exploration Location Plan				Surface Elev.		400.2'	
METHOD OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Operator:		Daryl Sherman			Date	Time	Depth (Ft.)	Comment	
Inspector:		Astitwa Sharma, EIT			05/01/24	9:13	4	Water seeping through side walls	
Equipment:		Link Belt Model LNK 27 Excavator							
Bucket Type:		Toothed							
Bucket Width:		24"							
VISUAL CLASSIFICATION OF MATERIAL									
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%			
0	S-1	2.0	4.0	1	Topsoil and Organic Material (moist, easy digging)				
1					Brown mottled SILT, some cmf SAND, some cmf GRAVEL, trace COBBLES (moist, easy to moderate digging)				
2									
3									
4									
5					Bottom of Test Pit @ 5'. Remark 3				
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
Remarks:									
1. See Test Pit Photographs, attached.									
2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.									
3. Grey possible bedrock surface observed at 5 feet below. Test Pit terminated after difficulty noted in digging through possible bedrock.									

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID		TP-304						
				Page No.		1 of 1						
				Project No.		28062						
Project Name:		Micron Campus, Clay, New York				Date Started		05/01/24				
Client:		Ramboll				Date Finished		05/01/24				
Location:		See Exploration Location Plan				Surface Elev.		404.4'				
METHOD OF INVESTIGATION					GROUNDWATER OBSERVATIONS							
Operator:		Daryl Sherman			Date		Time		Depth (Ft.)		Comment	
Inspector:		Astitwa Sharma, EIT			05/01/24		11:34		5		Water seeping through side walls	
Equipment:		Link Belt Model LNK 27 Excavator			05/01/24		11:40		6.5		About 1' of water accumulated at bottom of Test Pit	
Bucket Type:		Toothed										
Bucket Width:		24"										
VISUAL CLASSIFICATION OF MATERIAL												
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%						
0	S-1	2.0	4.0	0.5	Topsoil and Organic Material (moist, easy digging)							
1				1	Dark Brown cmf SAND and SILT, some cmf GRAVEL (moist, easy to moderate digging)							
2				2	Reddish Brown cmf SAND, some SILT, some cmf GRAVEL (moist, moderate digging)							
3				5	Brown cmf SAND, some SILT, some cmf GRAVEL, some COBBLES (moist, moderate digging)							
4					6							
5						Grey SILT, some cmf SAND, some cmf GRAVEL (wet, hard digging)						
6						Same as above (saturated, hard digging)						
7				Weathered Flat + Elongated Ledge Rock Boulders noted								
8				Bottom of Test Pit @ 7.5'								
9												
10												
11												
12												
13												
14												
15												
16												
Remarks: 1. See Test Pit Photographs, attached. 2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth. 3. Test Pit terminated after difficulty noted in digging at 7.5 feet. 4.												

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID	TP-305
				Page No.	1 of 1
				Project No.	28062
Project Name:	Micron Campus, Clay, New York			Date Started	05/01/24
Client:	Ramboll			Date Finished	05/01/24
Location:	See Exploration Location Plan			Surface Elev.	404.0'
METHOD OF INVESTIGATION				GROUNDWATER OBSERVATIONS	
Operator:	Daryl Sherman			Date	Time
Inspector:	Astitwa Sharma, EIT			05/01/24	12:00
Equipment:	Link Belt Model LNK 27 Excavator			05/01/24	12:06
Bucket Type:	Toothed				
Bucket Width:	24"				
VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%
0				1	Topsoil and Organic Material (moist, easy digging)
1					Dark Brown mottled cmf SAND, some SILT, some cmf GRAVEL, little COBBLES (moist, easy to moderate digging)
2					
3					
4				4.5	Grey cmf SAND and SILT, some cmf GRAVEL with BOULDERS (saturated, hard digging)
5					Weathered Flat + Elongated Ledge Rock Boulders noted
6					
7					Bottom of Test Pit @ 7'. Remark 3
8					
9					
10					
11					
12					
13					
14					
15					
16					
Remarks: 1. See Test Pit Photographs, attached. 2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth. 3. Test Pit terminated after difficulty noted in digging at 7 feet on possible bedrock surface. Test Pit bottom could not be observed due to accumulated water.					

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID		TP-306			
				Page No.		1 of 1			
				Project No.		28062			
Project Name:		Micron Campus, Clay, New York				Date Started		05/01/24	
Client:		Ramboll				Date Finished		05/01/24	
Location:		See Exploration Location Plan				Surface Elev.		399.0'	
METHOD OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Operator:		Daryl Sherman			Date	Time	Depth (Ft.)	Comment	
Inspector:		Astitwa Sharma, EIT			05/01/24	10:17	2.5	Water seeping from bottom	
Equipment:		Link Belt Model LNK 27 Excavator			05/01/24	10:25	3.5	About 1' of water accumulated at bottom of Test Pit	
Bucket Type:		Toothed							
Bucket Width:		24"							
VISUAL CLASSIFICATION OF MATERIAL									
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%			
0				1	Topsoil and Organic Material (moist, easy digging)				
1					Dark Brown mottled SILT, some cmf SAND, some cmf GRAVEL, little COBBLES (moist, easy to moderate digging)				
2									
3				3.5					
4				4.5	Same as above (saturated, moderate to hard digging)				
5					Bottom of Test Pit @ 4.5'. Remark 3				
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
Remarks:									
1. See Test Pit Photographs, attached.									
2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.									
3. Grey possible bedrock surface observed at 4.5 feet below. Test Pit terminated after difficulty noted in digging through possible bedrock.									

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID	TP-307	
				Page No.	1 of 1	
				Project No.	28062	
Project Name:	Micron Campus, Clay, New York			Date Started	05/03/24	
Client:	Ramboll			Date Finished	05/03/24	
Location:	See Exploration Location Plan			Surface Elev.	382.4'	
METHOD OF INVESTIGATION				GROUNDWATER OBSERVATIONS		
Operator:	Daryl Sherman			Date	Time	
Inspector:	Astitwa Sharma, EIT			05/03/24	10:07	
Equipment:	Link Belt Model LNK 27 Excavator			8	Depth (Ft.)	
Bucket Type:	Toothed			Comment		
Bucket Width:	24"			About 3.5' of water accumulated at Test Pit bottom		
VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%
		From	To			
0	S-1	2.0	4.0	0.5	Topsoil and Organic Material (moist, easy digging)	
1				Brown mottled SILT, little fine SAND, little CLAY (moist, easy digging)		
2						
3						
4						
5				5		
6				Brown/Grey SILT, little CLAY, little cmf SAND, trace mf GRAVEL, trace COBBLES (wet, easy to moderate digging)		
7						
8				(Saturated below about 8')		
9						
10				10.5		
11				Pinkish Grey cmf SAND, some cmf GRAVEL, little SILT, trace COBBLES (saturated, moderate digging)		
12				Bottom of Test Pit @ 11.5'		
13						
14						
15						
16						
Remarks:						
1. See Test Pit Photographs, attached.						
2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.						
3. Nearly horizontal clay seams observed between 5 to 8 feet below grade.						
4. Nearly horizontal Clay seams noted between 6 to 8 feet.						

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID	TP-308	
				Page No.	1 of 1	
				Project No.	28062	
Project Name:		Micron Campus, Clay, New York		Date Started	05/03/24	
Client:		Ramboll		Date Finished	05/03/24	
Location:		See Exploration Location Plan		Surface Elev.	381.0'	
METHOD OF INVESTIGATION				GROUNDWATER OBSERVATIONS		
Operator:		Daryl Sherman	Date	Time	Depth (Ft.)	Comment
Inspector:		Astitwa Sharma, EIT	05/03/24	10:43	10	Water seeping through side walls
Equipment:		Link Belt Model LNK 27 Excavator	05/03/24	10:47	9	About 2.5' of water accumulated at Test Pit bottom
Bucket Type:		Toothed				
Bucket Width:		24"				
VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%
0				1	Topsoil and Organic Material (moist, easy digging)	
1					Brown mottled SILT, little fine SAND, little CLAY (moist, easy digging)	
2						
3						
4				5		
5					Same as above (wet, easy digging)	
6						
7						
8						
9						
10				10	Grey SILT, some CLAY, some cmf SAND, little cmf GRAVEL, trace COBBLES, trace BOULDER (saturated, easy to moderate digging)	
11					Bottom of Test Pit @ 11.5'	
12						
13						
14						
15						
16						
Remarks:						
1. See Test Pit Photographs, attached.						
2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.						
4.						

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID	TP-309
						Page No.	1 of 1
						Project No.	28062
Project Name: Micron Campus, Clay, New York						Date Started	05/03/24
Client: Ramboll						Date Finished	05/03/24
Location: See Exploration Location Plan						Surface Elev.	380.6'
METHOD OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
Operator: Daryl Sherman				Date	Time	Depth (Ft.)	Comment
Inspector: Astitwa Sharma, EIT				05/03/24	9:20	4	Water seeping through side walls
Equipment: Link Belt Model LNK 27 Excavator				05/03/24	9:30	11	About 1' of water accumulated at bottom of Test Pit
Bucket Type: Toothed							
Bucket Width: 24"							
VISUAL CLASSIFICATION OF MATERIAL							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
0				0.5	Topsoil and Organic Material (moist, easy digging)		
1					Light Brown mottled SILT, little cmf SAND, little CLAY, trace fine GRAVEL (moist, easy digging)		
2							
3							
4				4			
5				5	Reddish Brown cmf SAND, some SILT, little CLAY (wet, easy to moderate digging)		
6							
7							
8							
9				9	Grey SILT, some CLAY, little cmf SAND, little cmf GRAVEL, trace COBBLES, trace BOULDER (wet to saturated, moderate to hard digging)		
10							
11							
12					Bottom of Test Pit @ 12'		
13							
14							
15							
16							
Remarks: 1. See Test Pit Photographs, attached. 2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth. 4.							

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID		TP-310			
				Page No.		1 of 1			
				Project No.		28062			
Project Name:		Micron Campus, Clay, New York				Date Started		05/03/24	
Client:		Ramboll				Date Finished		05/03/24	
Location:		See Exploration Location Plan				Surface Elev.		383.1'	
METHOD OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Operator:		Daryl Sherman			Date	Time	Depth (Ft.)	Comment	
Inspector:		Astitwa Sharma, EIT			05/03/24	11:48	4	Water seeping from sides of Test Pit	
Equipment:		Link Belt Model LNK 27 Excavator			05/03/24	12:00	12	Water rising from bottom of Test Pit	
Bucket Type:		Toothed							
Bucket Width:		24"							
VISUAL CLASSIFICATION OF MATERIAL									
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%			
0				0.5	Topsoil and Organic Material (moist, easy digging)				
1					Dark Brown SILT, some CLAY, trace fine SAND (wet, easy digging)				
2									
3									
4				4					
5					Brown mottled SILT and CLAY, trace fine SAND (wet, easy to moderate digging)				
6									
7									
8									
9									
10				10	Grey SILT, some CLAY, trace fine SAND (saturated, moderate digging)				
11									
12					Bottom of Test Pit @ 12'				
13									
14									
15									
16									
Remarks:									
1. See Test Pit Photographs, attached.									
2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.									
4.									

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID		TP-311			
				Page No.		1 of 1			
				Project No.		28062			
Project Name:		Micron Campus, Clay, New York				Date Started		05/03/24	
Client:		Ramboll				Date Finished		05/03/24	
Location:		See Exploration Location Plan				Surface Elev.		380.5'	
METHOD OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Operator:		Daryl Sherman			Date	Time	Depth (Ft.)	Comment	
Inspector:		Astitwa Sharma, EIT			05/03/24	12:16	2.5	Water seeping from bottom	
Equipment:		Link Belt Model LNK 27 Excavator			05/03/24	12:30	10.5	About 0.5' of water accumulated at bottom of Test Pit	
Bucket Type:		Toothed							
Bucket Width:		24"							
VISUAL CLASSIFICATION OF MATERIAL									
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%			
0				0.5	Topsoil and Organic Material (moist, easy digging)				
1					Brown mottled SILT, little CLAY, trace fine SAND (moist, easy digging)				
2									
3				3	Same as above (wet, easy digging)				
4									
5									
6									
7									
8									
9				9	Grey mottled SILT, some CLAY, trace fine SAND (saturated, easy to medium digging)				
10									
11					Bottom of Test Pit @ 11'				
12									
13									
14									
15									
16									
Remarks:									
1. See Test Pit Photographs, attached.									
2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.									
4.									

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID		TP-312			
				Page No.		1 of 1			
				Project No.		28062			
Project Name:		Micron Campus, Clay, New York				Date Started		05/03/24	
Client:		Ramboll				Date Finished		05/03/24	
Location:		See Exploration Location Plan				Surface Elev.		380.5'	
METHOD OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Operator:		Daryl Sherman			Date	Time	Depth (Ft.)	Comment	
Inspector:		Astitwa Sharma, EIT			05/03/24	12:58	None Noted		
Equipment:		Link Belt Model LNK 27 Excavator							
Bucket Type:		Toothed							
Bucket Width:		24"							
VISUAL CLASSIFICATION OF MATERIAL									
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%			
0	S-1	2.0	4.0	0.5	Topsoil and Organic Material (wet, easy digging)				
1				Brown mottled SILT, little CLAY, trace fine SAND (wet, easy digging)					
2									
3									
4									
5									
6									
7				7					
8				Grey SILT and CLAY, trace fine SAND (wet to saturated, easy to moderate digging)					
9									
10				Bottom of Test Pit @ 10'					
11									
12									
13									
14									
15									
16									
Remarks:									
1. See Test Pit Photographs, attached.									
2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.									
3. Side walls caved in before taking Test Pit photographs.									
4. Nearly horizontal Clay seams noted between 6 to 8 feet.									

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID		TP-313	
				Page No.		1 of 1	
				Project No.		28062	
Project Name: Micron Campus, Clay, New York				Date Started		05/02/24	
Client: Ramboll				Date Finished		05/02/24	
Location: See Exploration Location Plan				Surface Elev.		403.6'	
METHOD OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
Operator: Daryl Sherman				Date	Time	Depth (Ft.)	Comment
Inspector: Astitwa Sharma, EIT				05/02/24	12:21	10	Water seeping through side walls
Equipment: Link Belt Model LNK 27 Excavator							
Bucket Type: Toothed							
Bucket Width: 24"							
VISUAL CLASSIFICATION OF MATERIAL							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
0				0.5	Topsoil and Organic Material (moist, easy digging) Brown SILT, some fine SAND, trace CLAY (moist, easy digging)		
1				2			
2					Same as above (wet, easy)		
3				4			
4				5	Reddish Brown cmf SAND, some SILT, trace CLAY, trace GRAVEL (moist, easy digging)		
5					Brown cmf SAND, some SILT, some cmf GRAVEL, little COBBLES, trace CLAY (wet to saturated, moderate digging)		
6							
7					See Remark 3		
8							
9				9.5	See Remark 4		
10					Bottom of Test Pit @ 10'		
11							
12							
13							
14							
15							
16							
Remarks: 1. See Test Pit Photographs, attached. 2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth. 3. Large weathered rock of about 16"x16"x8" in dimension noted at about 9.5' below grade. 4. Nearly horizontal Clay seams noted between 6 to 8 feet.							

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID		TP-314			
				Page No.		1 of 1			
				Project No.		28062			
Project Name:		Micron Campus, Clay, New York				Date Started		05/02/24	
Client:		Ramboll				Date Finished		05/02/24	
Location:		See Exploration Location Plan				Surface Elev.		401.6'	
METHOD OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Operator:		Daryl Sherman			Date	Time	Depth (Ft.)	Comment	
Inspector:		Astitwa Sharma, EIT			05/02/24	9:55	None Noted		
Equipment:		Link Belt Model LNK 27 Excavator							
Bucket Type:		Toothed							
Bucket Width:		24"							
VISUAL CLASSIFICATION OF MATERIAL									
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%			
0				0.5	Topsoil and Organic Material (moist, easy digging)				
1					Light Brown SILT, some cmf SAND, trace CLAY (moist, easy digging)				
2									
3									
4				4	Grey/Brown, Same as above (wet, easy to medium digging)				
5									
6									
7									
8				8	Grey, Same as above (wet, moderate to hard digging)				
9					Rock fragments noted.				
10					Bottom of Test Pit @ 9'. Remark 3				
11									
12									
13									
14									
15									
16									
Remarks:									
1. See Test Pit Photographs, attached.									
2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.									
3. Test Pit terminated after difficulty noted in digging through possible weathered rock.									
4.									

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID	TP-315	
				Page No.	1 of 1	
				Project No.	28062	
Project Name:	Micron Campus, Clay, New York			Date Started	05/02/24	
Client:	Ramboll			Date Finished	05/02/24	
Location:	See Exploration Location Plan			Surface Elev.	405.1'	
METHOD OF INVESTIGATION				GROUNDWATER OBSERVATIONS		
Operator:	Daryl Sherman			Date	Time	
Inspector:	Astitwa Sharma, EIT			05/02/24	10:27	
Equipment:	Link Belt Model LNK 27 Excavator					
Bucket Type:	Toothed					
Bucket Width:	24"					
VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%
		From	To			
0	S-1	2.0	3.5	1	Topsoil and Organic Material (moist, easy digging)	
1				Light Brown mottled SILT, some mf SAND, trace CLAY (wet, easy to moderate digging)		
2						
3				3.5	Grey/Brown mottled SILT, some mf SAND, little CLAY (wet, easy to moderate digging)	
4						
5						
6				7	See Remark 4	
7				Grey/Brown mottled SILT, some mf SAND, little CLAY, trace GRAVEL (wet, easy to moderate digging)		
8						
9				Bottom of Test Pit @ 9'. Remark 5		
10						
11						
12						
13						
14						
15						
16						
Remarks:						
1. See Test Pit Photographs, attached.						
2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.						
3. Side walls caved in before taking Test Pit photographs.						
4. Nearly horizontal Clay seams noted between 6 to 8 feet.						
5. Test Pit terminated after difficulty noted in digging through dense COBBLES/BOULDER.						

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID TP-316		
				Page No. 1 of 1		
				Project No. 28062		
Project Name: Micron Campus, Clay, New York		Date Started 05/02/24		Date Finished 05/02/24		
Client: Ramboll		Date Finished 05/02/24		Surface Elev. 403.3'		
Location: See Exploration Location Plan						
METHOD OF INVESTIGATION				GROUNDWATER OBSERVATIONS		
Operator: Daryl Sherman Inspector: Astitwa Sharma, EIT Equipment: Link Belt Model LNK 27 Excavator Bucket Type: Toothed Bucket Width: 24"		Date 05/02/24	Time 11:45	Depth (Ft.) 10	Comment Water seeping through bottom	
VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%
		From	To			
0				0.5	Topsoil and Organic Material (moist, easy digging) Brown mottled SILT, some fine SAND, trace CLAY (moist, easy digging)	
1						
2						
3						
4				5	Brown mottled SILT, some fine SAND, little CLAY, trace ROOTS (wet, easy to moderate digging)	
5						
6						
7						
8				8.5	Brown SILT, some fine SAND, trace GRAVEL, trace CLAY (wet, moderate digging)	
9				9.5	Brown mf SAND, some SILT, little cmf GRAVEL (wet, moderate to hard digging)	
10					Bottom of Test Pit @ 10'	
11						
12						
13						
14						
15						
16						
Remarks: 1. See Test Pit Photographs, attached. 2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth. 3. Test Pit terminated after difficulty noted in digging through dense COBBLES/BOULDER.						

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID		TP-317			
				Page No.		1 of 1			
				Project No.		28062			
Project Name:		Micron Campus, Clay, New York				Date Started		05/02/24	
Client:		Ramboll				Date Finished		05/02/24	
Location:		See Exploration Location Plan				Surface Elev.		405.4'	
METHOD OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Operator:		Daryl Sherman			Date	Time	Depth (Ft.)	Comment	
Inspector:		Astitwa Sharma, EIT			05/02/24	11:09	2.5	Water seeping through side walls	
Equipment:		Link Belt Model LNK 27 Excavator							
Bucket Type:		Toothed							
Bucket Width:		24"							
VISUAL CLASSIFICATION OF MATERIAL									
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%			
0				1	Topsoil and Organic Material (moist, easy digging)				
1					Brown SILT, some fine SAND, little CLAY (wet, easy to moderate digging)				
2									
3				4					
4					Same as above (wet, easy digging)				
5				6					
6					Brown SILT, some fine SAND, little CLAY, trace cmf GRAVEL (wet, easy to moderate digging)				
7				7.5					
8					Brown cmf GRAVEL, some cmf SAND, some SILT, little COBBLES, trace BOULDER (wet, hard digging)				
9									
10									
11					Test Pit bottom @ 10.5'				
12									
13									
14									
15									
16									
Remarks:									
1. See Test Pit Photographs, attached.									
2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.									
3. Test Pit terminated after difficulty noted in digging through dense COBBLES/BOULDER.									

Test Pit Photographs
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Figure 1: Test Pit TP-301



Figure 2: Materials excavated from TP-301

Test Pit Photographs
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Figure 3: Test Pit TP-302



Figure 4: Materials excavated from TP-302

Test Pit Photographs
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Figure 5: Test Pit TP-303



Figure 6: Materials excavated from TP-303

Test Pit Photographs
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Figure 7: Test Pit TP-304



Figure 8: Materials excavated from TP-304

Test Pit Photographs
Page 5 of 17



Figure 9: Test Pit TP-305



Figure 10: Materials excavated from TP-305

Test Pit Photographs
Page 6 of 17



Figure 11: Test Pit TP-306



Figure 12: Materials excavated from TP-306

Test Pit Photographs
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Figure 13: Test Pit TP-307



Figure 14: Materials excavated from TP-307

Test Pit Photographs
Page 8 of 17



Figure 15: Test Pit TP-308



Figure 16: Materials excavated from TP-308

Test Pit Photographs
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Figure 17: Test Pit TP-309



Figure 18: Materials excavated from TP-309

Test Pit Photographs
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Figure 19: Test Pit TP-310



Figure 20: Materials excavated from TP-310

Test Pit Photographs
Page 11 of 17



Figure 21: Test Pit TP-311



Figure 22: Materials excavated from TP-311

Test Pit Photographs
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Figure 23: Test Pit TP-312



Figure 24: Materials excavated from TP-312

Test Pit Photographs
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Figure 25: Test Pit TP-313



Figure 26: Materials excavated from TP-313

Test Pit Photographs
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Figure 27: Test Pit TP-314



Figure 28: Materials excavated from TP-314

Test Pit Photographs
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Figure 29: Test Pit TP-315



Figure 30: Materials excavated from TP-315

Test Pit Photographs
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Figure 31: Test Pit TP-316



Figure 32: Materials excavated from TP-316

Test Pit Photographs
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Figure 33: Test Pit TP-317



Figure 34: Materials excavated from TP-317

Vane Shear Test and Pocket Penetrometer Test Summary Tables

In-situ Vane Shear Test Readings

TESP PIT ID	Depth (ft)	TEST 1		TEST 2		TEST 3	
		Peak (psf)	Residual (psf)	Peak (psf)	Residual (psf)	Peak (psf)	Residual (psf)
TP-301	3.5	1,044	543	1,003	501	1,420	794
TP-303	2.5	1,337	961	1,295	794	1,880	794
	3.5	1,337	877	1,253	835	877	522
TP-307	2.5	2,444	794	2,611	773	2,151	773
TP-308	2.5	1,880	919	2,799	1,128	1,838	835
	4	794	209	626	334	710	209
TP-309	2	1,880	731	1,775	794	1,546	606
TP-310	2.5	3,258	1,671	5,013	1,921	4,261	2,214
	4	1,838	919	2,130	1,337	2,556	835
TP-311	2.5	2,005	835	1,786	668	1,963	752
	3.5	1,546	585	1,504	459	1,796	626
TP-312	2	3,342	1,336	2,924	1,587	2,506	1,253
TP-313	2	439	292	585	292	710	376
TP-314	2.5	752	209	877	209	835	209
	3.5	606	251	877	292	501	251
TP-315	3	647	251	272	125	459	209
TP-316	2.5	522	251	835	376	794	313
	5	1,190	Note 1	1,525	Note 1	627	Note 1
TP-317	2.5	689	376	794	355	1,211	418
	3.5	835	459	710	397	982	459

Note 1: Test pit was too deep to enter and perform the traditional vane shear test. The test was performed from grade using extension rods. The Residual reading could not be obtained with this method.

Vane Shear Test and Pocket Penetrometer Test Summary Tables

In-situ Pocket Penetrometer Readings

TEST PIT ID	Depth (ft)	TEST 1 (tsf)	TEST 2 (tsf)	TEST 3 (tsf)
TP-301	3.5	0.50	0.50	0.75
TP-303	2.5	0.50	0.25	1.00
	3.5	0.25	0.25	0.50
TP-307	2.5	1.25	2.50	1.75
TP-308	2.5	1.38	0.88	2.00
	4.0	1.50	0.75	1.25
TP-309	2.0	0.75	0.75	1.50
	3.0	3.00	1.00	1.25
TP-310	2.5	4.25	1.75	1.75
	4.0	0.75	1.00	0.50
TP-311	2.5	3.00	3.00	3.50
	3.5	1.00	0.25	1.88
TP-312	2.0	3.00	1.75	2.38
TP-313	2.0	2.75	1.25	1.13
TP-314	2.5	0.67	1.00	0.50
	3.5	0.67	1.00	1.00
TP-316	2.5	1.25	1.00	3.75
TP-317	2.5	1.50	1.25	1.87
	3.5	0.38	1.00	0.38

FIELD SOIL RESISTIVITY OBSERVATIONS SUMMARY TABLE

		Probe Spacing									
		20 ft (610 cm)		16 ft (488 cm)		12 ft (366 cm)		8 ft (244 cm)		4 ft (122 cm)	
Date:	Survey Point ID	R (Ω)	ρ (Ω•cm)	R (Ω)	ρ (Ω•cm)	R (Ω)	ρ (Ω•cm)	R (Ω)	ρ (Ω•cm)	R (Ω)	ρ (Ω•cm)
5/31/2024	SR-1	10.10	38,700	11.70	35,900	18.30	42,100	40.10	61,500	175.00	134,000
5/31/2024	SR-2	3.66	14,000	4.73	14,500	4.96	11,400	12.00	18,400	76.90	58,900
5/31/2024	SR-3	3.72	14,300	4.04	12,400	4.36	10,000	5.16	7,910	8.82	6,760
5/31/2024	SR-4	3.48	13,300	3.19	9,780	3.74	8,600	5.71	8,750	27.10	20,800
5/31/2024	SR-5	3.67	14,100	4.01	12,300	5.33	12,300	7.11	10,900	34.80	26,700
5/31/2024	SR-6	9.77	37,400	9.24	28,300	15.30	35,200	39.20	60,100	144.00	110,000
5/31/2024	SR-7	4.64	17,800	5.28	16,200	6.61	15,200	9.84	15,100	26.90	20,600
5/31/2024	SR-8	5.86	22,500	6.26	19,200	7.09	16,300	10.70	16,400	36.00	27,600
6/3/2024	SR-9	12.80	49,100	19.50	59,800	32.80	75,400	64.50	98,900	187.00	143,000
6/3/2024	SR-10	8.69	33,300	12.00	36,800	18.50	42,500	37.50	57,500	96.20	73,700
6/3/2024	SR-11	6.11	23,400	7.12	21,800	9.23	21,200	19.30	29,600	95.20	73,000
6/3/2024	SR-12	3.93	15,100	4.12	12,600	4.87	11,200	6.69	10,300	15.60	12,000
6/3/2024	SR-13	4.51	17,300	4.78	14,700	5.52	12,700	8.09	12,400	20.00	15,300
6/3/2024	SR-14	2.09	8,010	2.26	6,930	2.50	5,750	3.43	5,260	7.51	5,760
6/3/2024	SR-15	2.36	9,050	2.51	7,700	2.91	6,690	3.61	5,530	6.41	4,910
6/3/2024	SR-16	2.04	7,820	2.32	7,110	2.64	6,070	3.62	5,550	8.46	6,490
6/4/2024	SR-17	5.81	22,300	4.17	12,800	5.91	13,600	19.70	30,200	145.00	111,000
6/4/2024	SR-18	5.40	20,700	5.89	18,100	5.19	11,900	15.40	23,600	88.20	67,600
6/4/2024	SR-19	5.91	22,700	7.19	22,000	9.28	21,300	14.40	22,100	23.60	18,100
6/4/2024	SR-20	3.08	11,800	3.13	9,600	3.29	7,570	3.98	6,100	6.80	5,210
6/4/2024	SR-21	3.30	12,600	3.53	10,800	3.73	8,580	4.68	7,170	8.45	6,480
6/4/2024	SR-22	3.09	11,800	3.09	9,470	3.37	7,750	3.97	6,090	7.45	5,710
6/4/2024	SR-23	3.14	12,000	3.24	9,930	3.57	8,210	4.10	6,290	6.34	4,860
6/4/2024	SR-24	2.89	11,100	3.04	9,320	3.41	7,840	4.23	6,490	11.90	9,120

Notes:

See Field Soil Resistivity Photographs for Surface Cover Conditions

R = Resistance (Ω) from field test data

A = Probe spacing in centimeters (cm)

ρ = Resistivity (Ω•cm) calculated by formula: $\rho = 2 \cdot \pi \cdot A \cdot R$, rounded to 3 significant figures

Survey Conditions	Weather	Temperature	Date of Last Rainfall
5/31/2024	Sunny	50-65 °F	5/27/2024
6/3/2024	Sunny	65-70 °F	5/27/2024
6/4/2024	Sunny	65-75 °F	5/27/2024

Field Soil Resistivity Photographs
Page 1 of 12



Figure 1: Survey Line SR-1

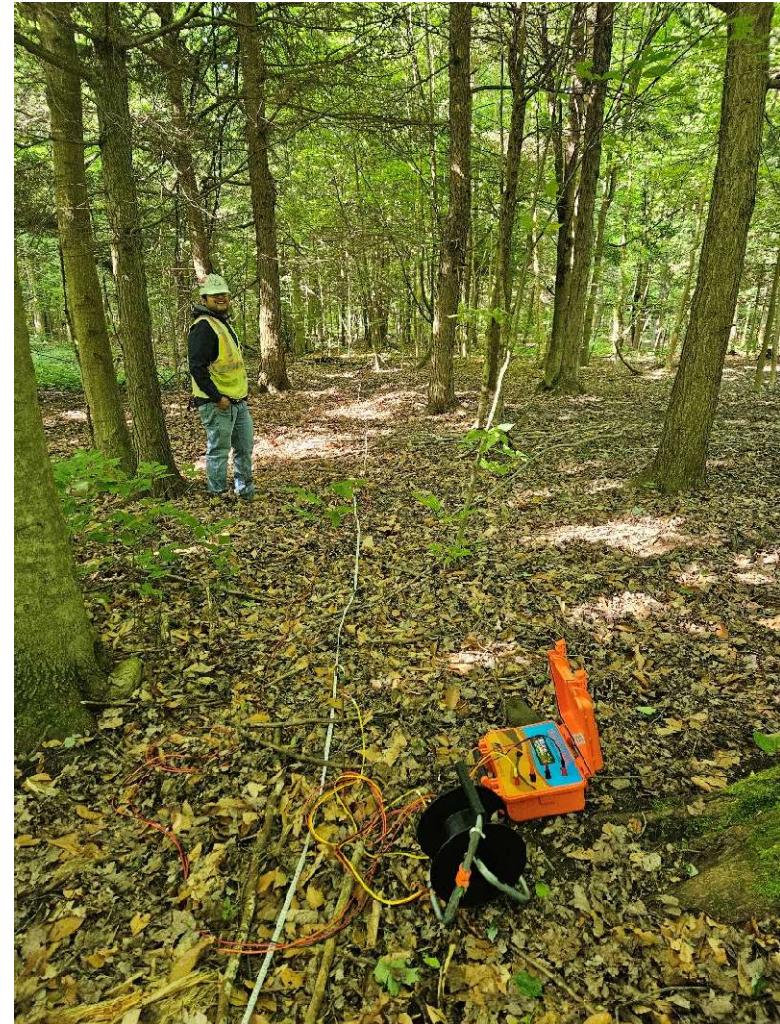


Figure 2: Survey Line SR-2

Field Soil Resistivity Photographs
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Figure 3: Survey Line SR-3



Figure 4: Survey Line SR-4

Field Soil Resistivity Photographs
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Figure 5: Survey Line SR-5



Figure 6: Survey Line SR-6

Field Soil Resistivity Photographs
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Figure 7: Survey Line SR-7



Figure 8: Survey Line SR-8

Field Soil Resistivity Photographs
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Figure 9: Survey Line SR-9

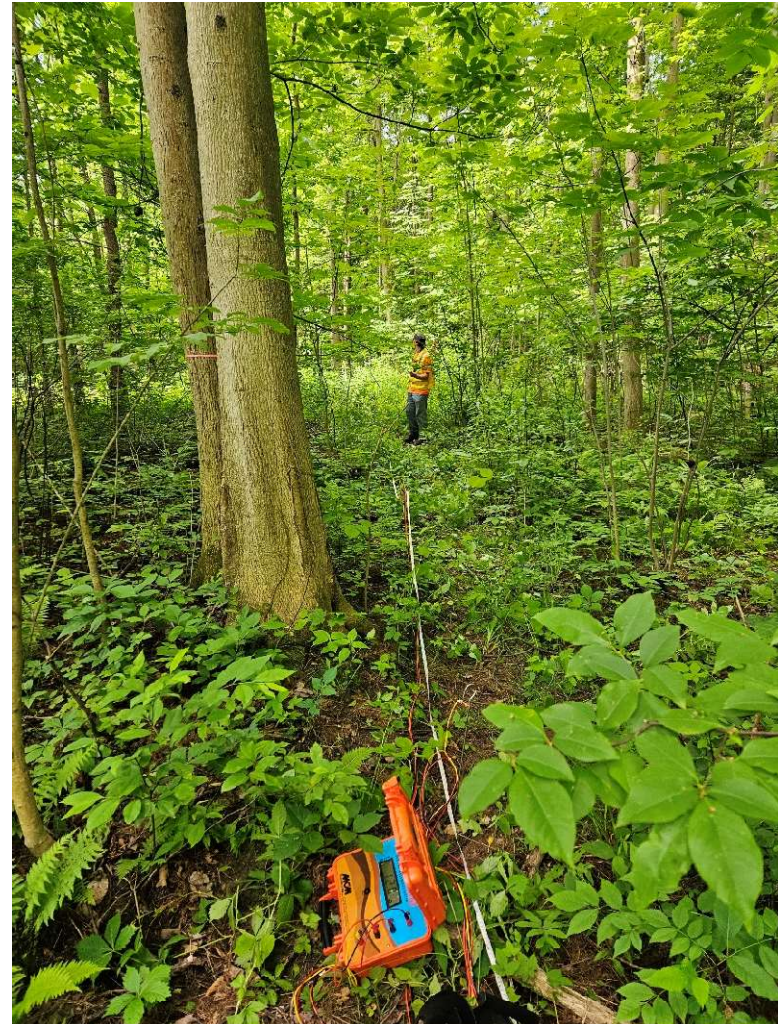


Figure 10: Survey Line SR-10

Field Soil Resistivity Photographs
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Figure 11: Survey Line SR-11

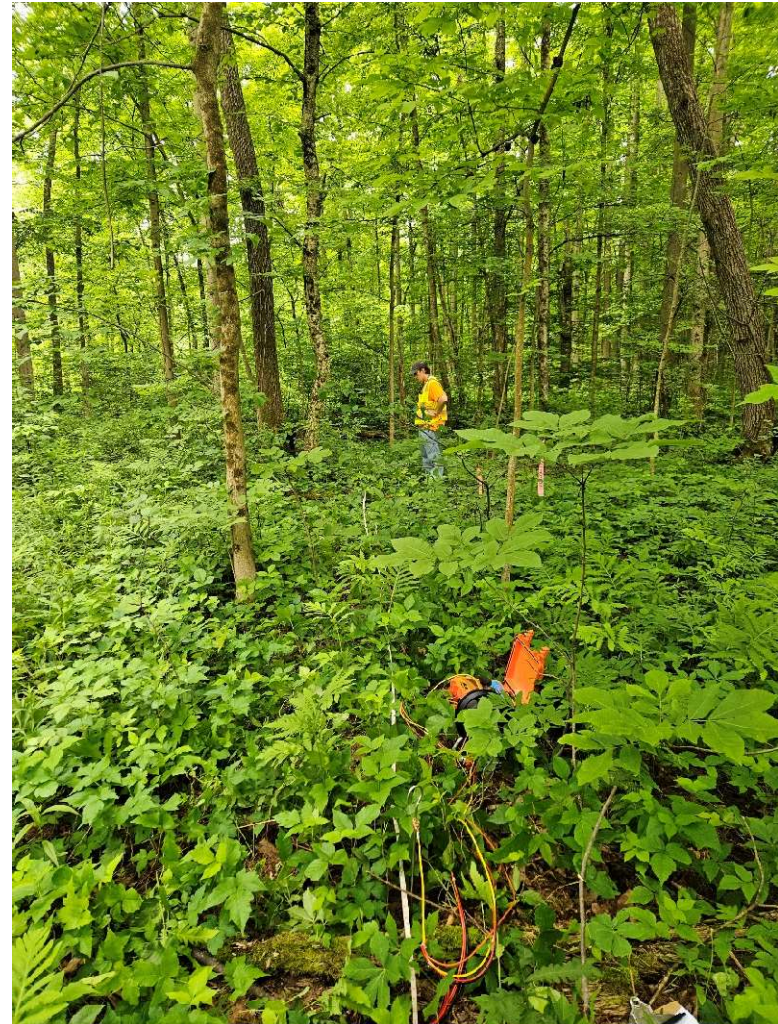


Figure 12: Survey Line SR-12

Field Soil Resistivity Photographs
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Figure 13: Survey Line SR-13



Figure 14: Survey Line SR-14

Field Soil Resistivity Photographs
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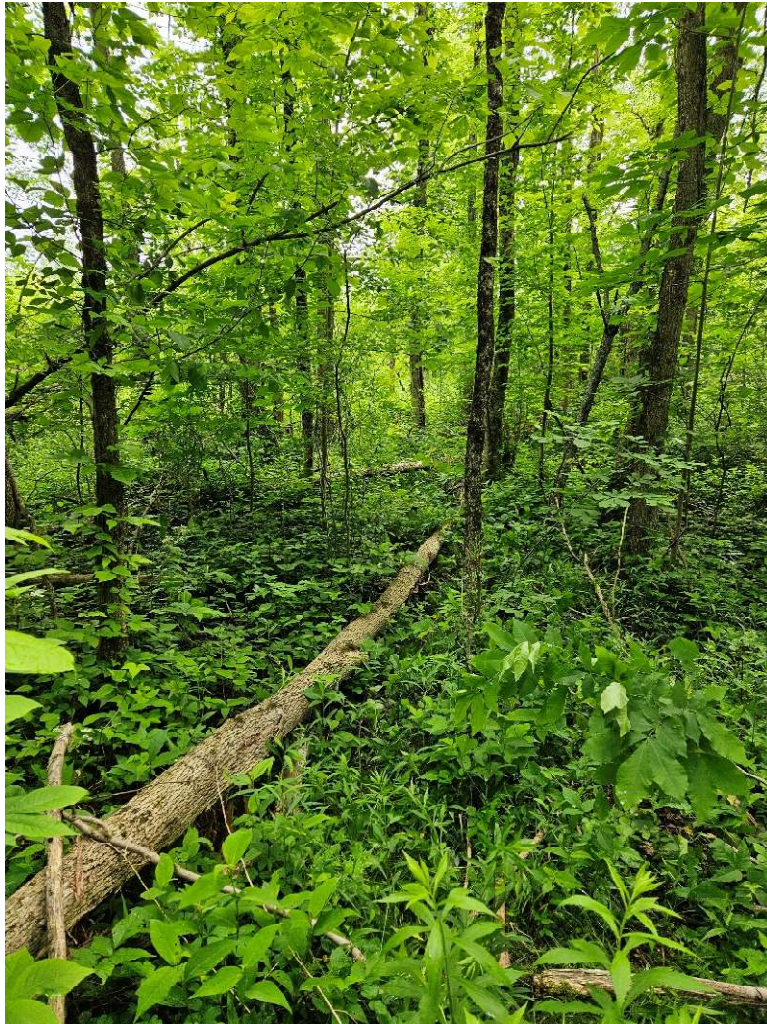


Figure 15: Survey Line SR-15 (picture taken after probes were packed up)



Figure 16: Survey Line SR-16

Field Soil Resistivity Photographs
Page 9 of 12



Figure 17: Survey Line SR-17



Figure 18: Survey Line SR-18

Field Soil Resistivity Photographs
Page 10 of 12



Figure 19: Survey Line SR-19

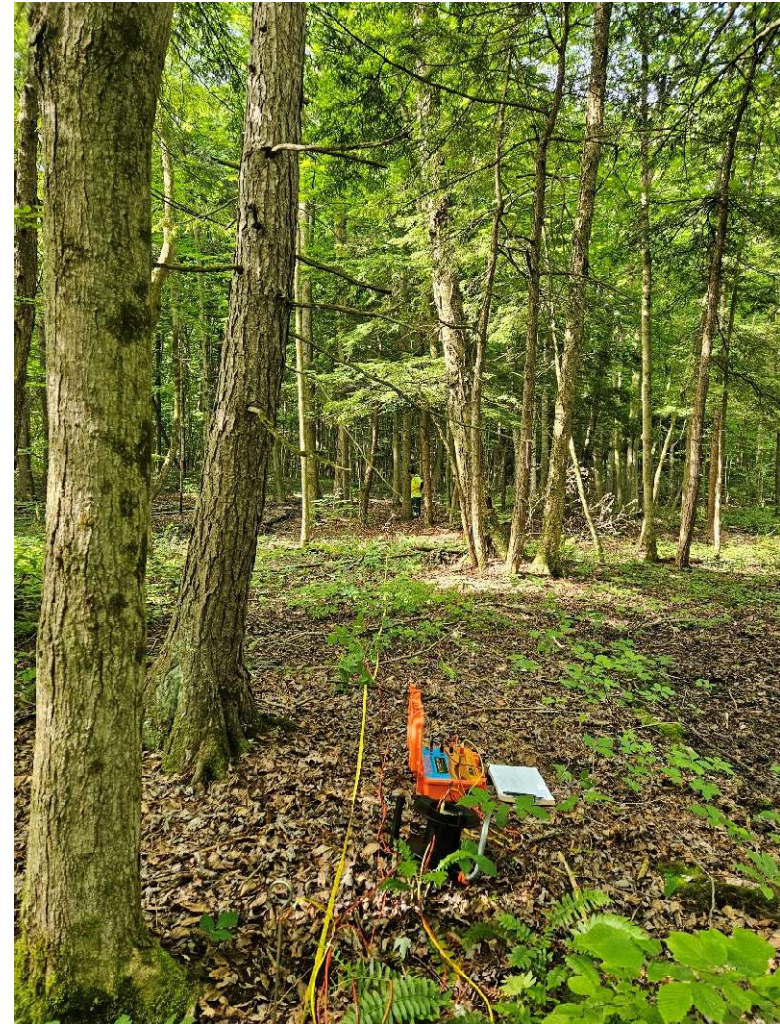


Figure 20: Survey Line SR-20

Field Soil Resistivity Photographs
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Figure 21: Survey Line SR-21

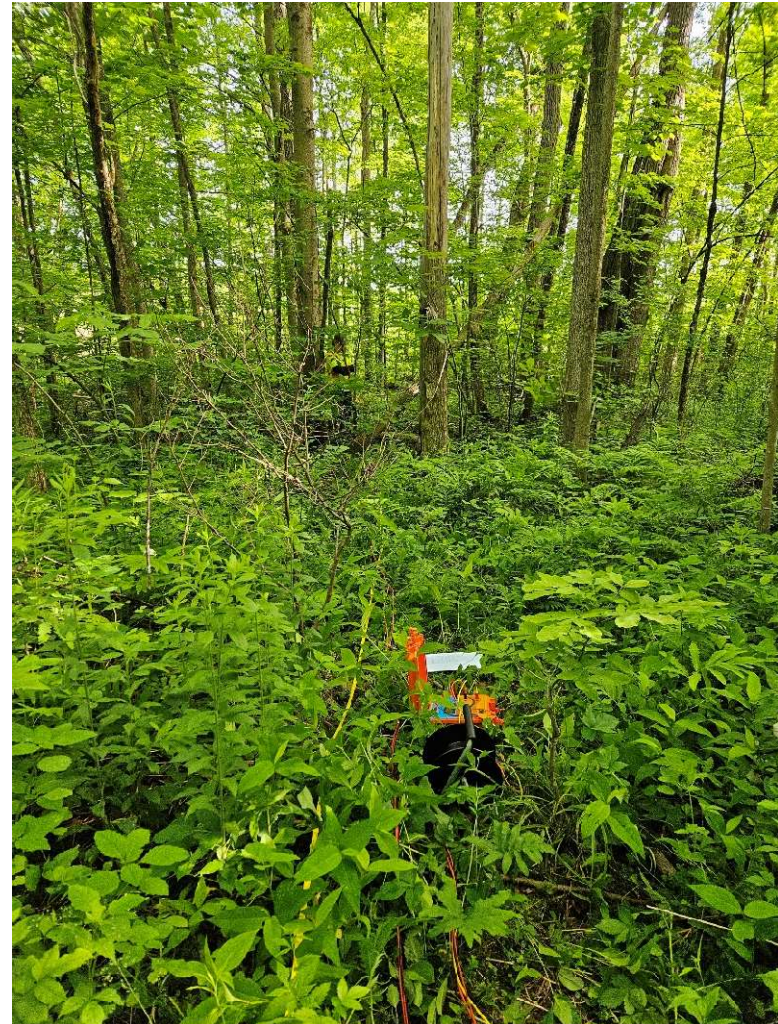


Figure 22: Survey Line SR-22

Field Soil Resistivity Photographs
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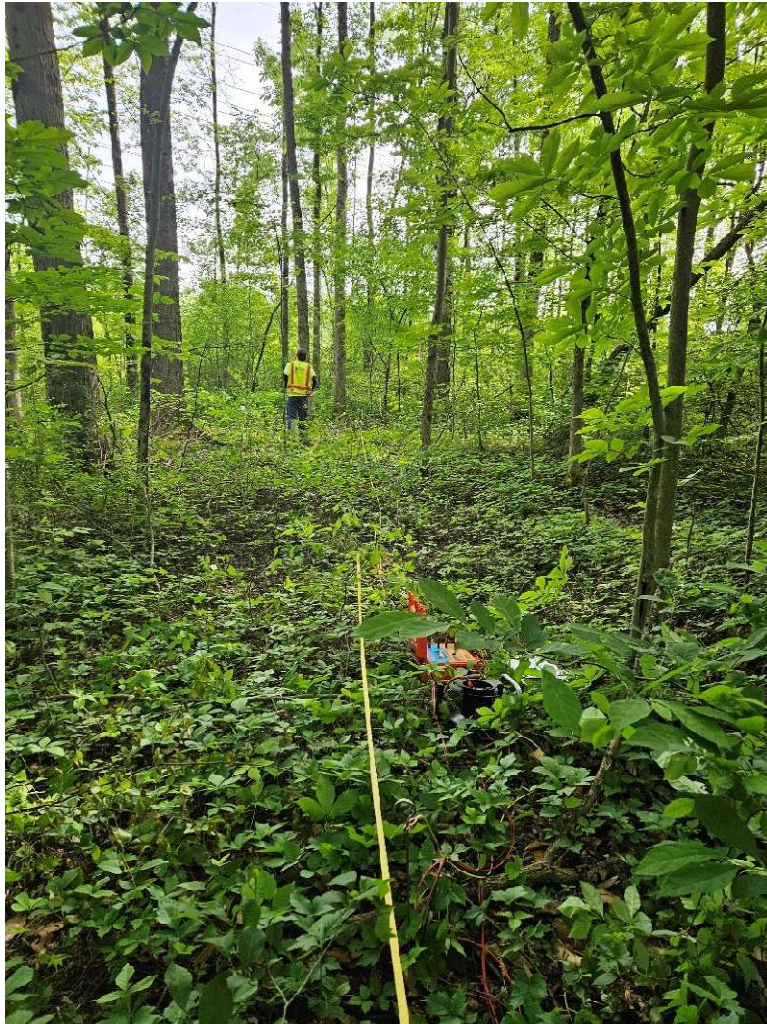


Figure 23: Survey Line SR-23



Figure 24: Survey Line SR-24

Observed Groundwater Elevation and Depth Below Grade (Feet)																		
Boring ID	B-129		B-24		B-227		B-337		B-391		B-370		B-400		B-420		B-422	
Elev. at Grade (ft)	418.8		394.6		389.3		403.5		393		393.7		399.6		390.9		382	
WELL ID	W-1		W-2		W-3		W-4		W-5		W-6		W-7		W-8		W-9	
DATE	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth
4/19/2023	418.7	0.1			385.5	3.8												
4/21/2023			393.8	0.8														
5/16/2023	416.1	2.7	392.5	2.1	385.7	3.6												
5/17/2023	416.0	2.8	391.8	2.8	386.4	2.9												
6/12/2023	414.6	4.2	386.8	7.8	385.3	4.0												
10/5/2023	415.2	3.6	389.2	5.4	386.4	2.9												
11/9/2023	416.4	2.4	394.2	0.4	386.2	3.1	398.4	5.1	392.3	0.7	388.7	5	398.5	1.1	388.7	2.2	379.4	2.6
11/17/2023	417.8	1.0	394.4	0.2	387.1	2.2	398.9	4.6	392.1	0.9	389.8	3.9	398.5	1.1	386.7	4.2	377.0	5.00
1/16/2024	418.0	0.8	394.0	0.6	388.8	0.5	401.8	1.7	392.6	0.4	391.1	2.6	398.8	0.8	389.3	1.6	377.9	4.1
5/14/2024	417.9	0.9	394.4	0.3	388.7	0.6	400.5	3.1	392.5	0.5	390.4	3.3	398.8	0.8	389.6	1.4	380.9	1.1
5/28/2024	415.9	2.9	391.5	3.1	387.1	2.2	400.0	3.6	391.3	1.7	389.1	4.6	397.2	2.4	385.3	5.6	379.4	2.6
7/11/2024	418.5	0.3	394.3	0.3	388.3	1.0	398.7	4.8	392.3	0.7	388.1	5.6	398.9	0.7	388.5	2.4	381.0	1.0

Boring ID	B-505		B-522		B-546		B-557		B-564		B-604		B-618		B-676		B-683	
Elev. at Grade (ft)	406.1		393.7		394.5		382		380.8		391.4		392.7		404.3		394.8	
WELL ID	W-10		W-11		W-12		W-13		W-14		W-16		W-17		W-18		W-19	
DATE	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth	Elev.	Depth
5/14/2024	405.9	0.3	390.2	3.5	391.2	3.3	381.6	0.4	380.6	0.2	391.0	0.4	392.1	0.6	400.3	4.0	392.7	2.1
5/28/2024	405.0	1.1	389.5	4.2	388.4	6.1	380.3	1.7	379.8	1.1	389.1	2.3	391.1	1.6	398.6	5.7	392.0	2.8
7/11/2024	405.4	0.7	390.9	2.8	385.3	9.2	381.1	0.9	380.4	0.4	390.0	1.4	391.9	0.8	397.2	7.1	393.1	1.7

Note: Groundwater Observation Well W-15 was not installed due to access restrictions.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		GROUNDWATER MONITORING WELL LOG		Well No.	W-10
				Boring No.	B-505
Project Name:	Micron Campus, Clay, New York			Project No.	28062
Client:	Ramboll			Installation Date	5/10/2024
Location:	See Exploration Location Plan	Surface Elevation	406.1	Riser Elevation	408.6
Driller:	Beau Fletcher	Driller:	Ryan Casatelli	Inspector:	N/A

Well Riser Stickup above Ground Surface: 2.5'

Ground Surface

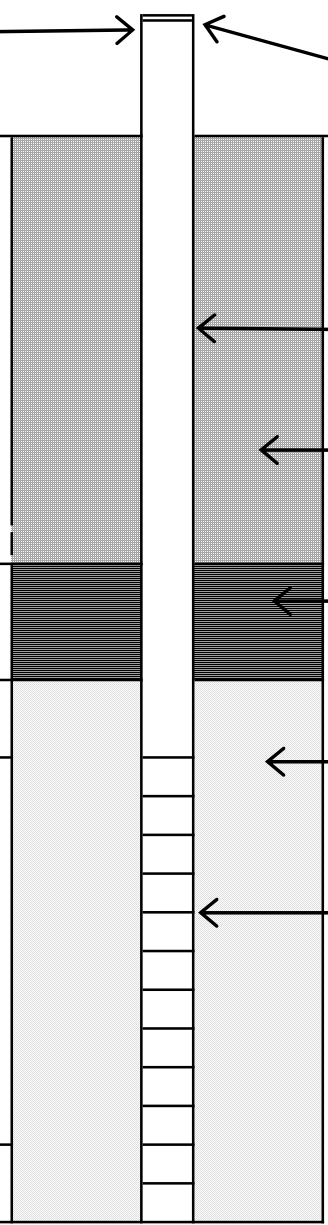
Depth to Top of Seal: 3'

Depth to Top of Filter Pack: 4'

Depth to Top of Well Screen: 5'

Depth to Bottom of Well Screen: 10'

Depth to Bottom of Borehole: 10'



Watertight Locking Well Cap

Diameter/Type of Well Riser:
2" I.D. Schedule 40 PVC

Backfill Type around Well Riser:
Soil Cuttings

Type of Seal:
Bentonite Chips

Type of Filter Pack around Well Screen:
#1 FilPro Sand

Diameter/Type of Well Screen:
0.010" slot 2" I.D. Schedule 40 PVC

Not to Scale

Remarks:

1. See Test Boring Log B-505 for soil information.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		GROUNDWATER MONITORING WELL LOG		Well No.	W-11
				Boring No.	B-522
Project Name:	Micron Campus, Clay, New York			Project No.	28062
Client:	Ramboll			Installation Date	4/16/2024
Location:	See Exploration Location Plan	Surface Elevation	393.7	Riser Elevation	397.0
Driller:	Al Linstruth	Driller:	John Winks	Inspector:	N/A

Well Riser Stickup above Ground Surface: 3.33'

Ground Surface

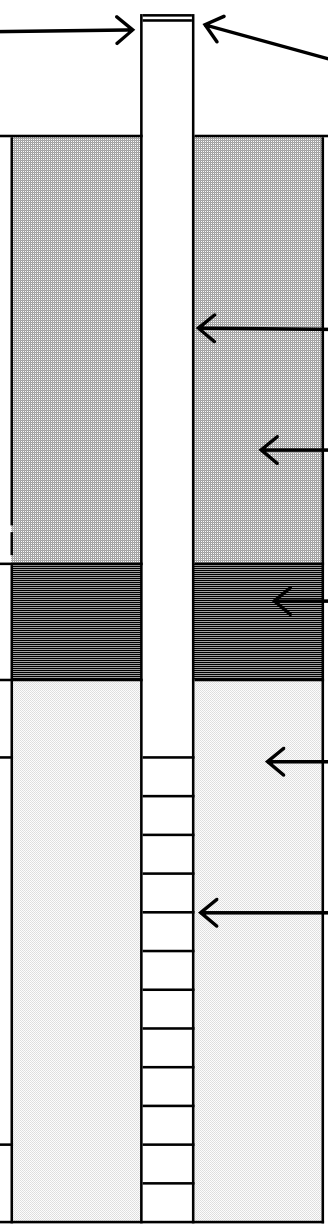
Depth to Top of Seal: 0.5'

Depth to Top of Filter Pack: 1.5'

Depth to Top of Well Screen: 2'

Depth to Bottom of Well Screen: 7'

Depth to Bottom of Borehole: 7'



Not to Scale

Diameter/Type of Well Riser:
2" I.D. Schedule 40 PVC

Backfill Type around Well Riser:
Soil Cuttings

Type of Seal:
Bentonite Chips

Type of Filter Pack around Well Screen:
#1 FilPro Sand

Diameter/Type of Well Screen:
0.010" slot 2" I.D. Schedule 40 PVC

Remarks:

1. See Test Boring Log B-522 for soil information.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		GROUNDWATER MONITORING WELL LOG		Well No.	W-12
				Boring No.	B-546
Project Name:	Micron Campus, Clay, New York			Project No.	28062
Client:	Ramboll			Installation Date	4/22/2024
Location:	See Exploration Location Plan	Surface Elevation	394.5	Riser Elevation	397.2
Driller:	Beau Fletcher	Driller:	Ryan Casatelli	Inspector:	N/A

Well Riser Stickup above Ground Surface: 2.67'

Ground Surface

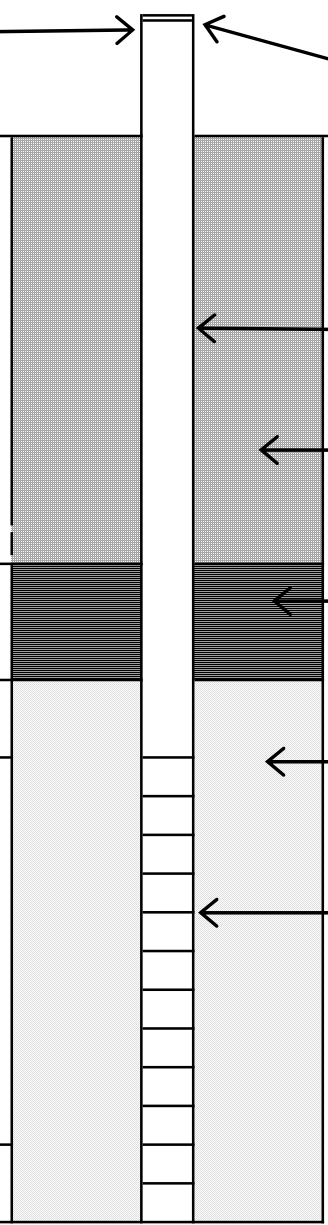
Depth to Top of Seal: 3'

Depth to Top of Filter Pack: 4'

Depth to Top of Well Screen: 5'

Depth to Bottom of Well Screen: 10'

Depth to Bottom of Borehole: 10'



Watertight Locking Well Cap

Diameter/Type of Well Riser:
2" I.D. Schedule 40 PVC

Backfill Type around Well Riser:
Soil Cuttings

Type of Seal:
Bentonite Chips

Type of Filter Pack around Well Screen:
#1 FilPro Sand

Diameter/Type of Well Screen:
0.010" slot 2" I.D. Schedule 40 PVC

Not to Scale

Remarks:

1. See Test Boring Log B-546 for soil information.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		GROUNDWATER MONITORING WELL LOG		Well No.	W-13
				Boring No.	B-557
Project Name:	Micron Campus, Clay, New York			Project No.	28062
Client:	Ramboll			Installation Date	4/22/2024
Location:	See Exploration Location Plan	Surface Elevation	382.0	Riser Elevation	384.7
Driller:	Beau Fletcher	Driller:	Ryan Casatelli	Inspector:	N/A

Well Riser Stickup above Ground Surface: 2.67'

Ground Surface

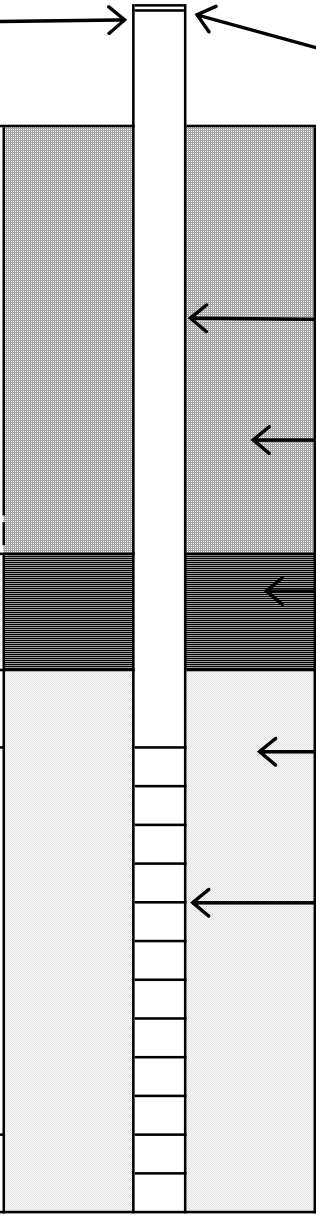
Depth to Top of Seal: 3'

Depth to Top of Filter Pack: 4'

Depth to Top of Well Screen: 5'

Depth to Bottom of Well Screen: 10'

Depth to Bottom of Borehole: 10'



Diameter/Type of Well Riser:
2" I.D. Schedule 40 PVC

Backfill Type around Well Riser:
Soil Cuttings

Type of Seal:
Bentonite Chips

Type of Filter Pack around Well Screen:
#1 FilPro Sand

Diameter/Type of Well Screen:
0.010" slot 2" I.D. Schedule 40 PVC

Not to Scale

Remarks:

1. See Test Boring Log B-557 for soil information.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		GROUNDWATER MONITORING WELL LOG		Well No.	W-14
				Boring No.	B-564
Project Name:	Micron Campus, Clay, New York			Project No.	28062
Client:	Ramboll			Installation Date	4/23/2024
Location:	See Exploration Location Plan	Surface Elevation	380.8	Riser Elevation	383.6
Driller:	Beau Fletcher	Driller:	Ryan Casatelli	Inspector:	N/A

Well Riser Stickup above Ground Surface: 2.75'

Ground Surface

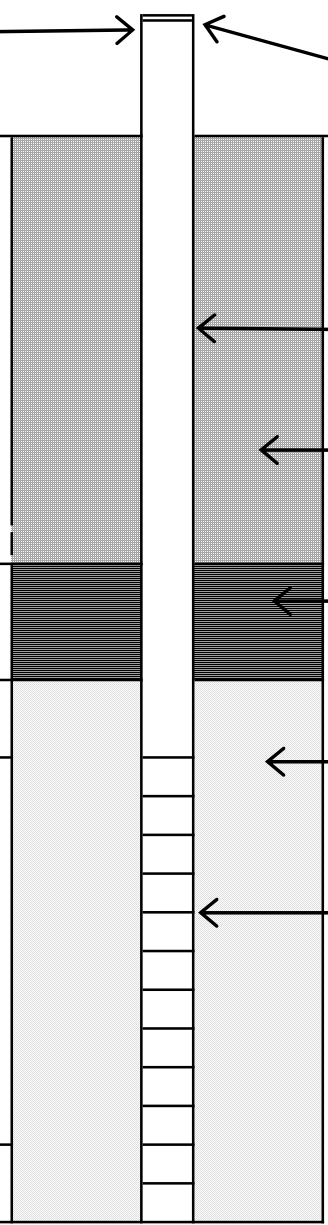
Depth to Top of Seal: 3'

Depth to Top of Filter Pack: 4'

Depth to Top of Well Screen: 5'

Depth to Bottom of Well Screen: 10'

Depth to Bottom of Borehole: 10'



Watertight Locking Well Cap

Diameter/Type of Well Riser:
2" I.D. Schedule 40 PVC

Backfill Type around Well Riser:
Soil Cuttings

Type of Seal:
Bentonite Chips

Type of Filter Pack around Well Screen:
#1 FilPro Sand

Diameter/Type of Well Screen:
0.010" slot 2" I.D. Schedule 40 PVC

Not to Scale

Remarks:

1. See Test Boring Log B-564 for soil information.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		GROUNDWATER MONITORING WELL LOG		Well No.	W-16
				Boring No.	B-604
Project Name:	Micron Campus, Clay, New York			Project No.	28062
Client:	Ramboll			Installation Date	4/19/2024
Location:	See Exploration Location Plan	Surface Elevation	391.4	Riser Elevation	393.9
Driller:	Beau Fletcher	Driller:	Ryan Casatelli	Inspector:	N/A

Well Riser Stickup above Ground Surface: 2.5'

Ground Surface

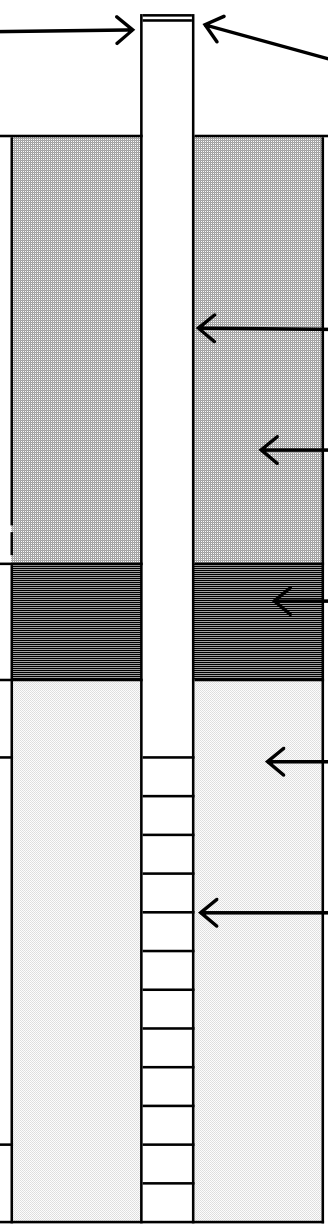
Depth to Top of Seal: 3'

Depth to Top of Filter Pack: 4'

Depth to Top of Well Screen: 5'

Depth to Bottom of Well Screen: 10'

Depth to Bottom of Borehole: 10'



Watertight Locking Well Cap

Diameter/Type of Well Riser:
2" I.D. Schedule 40 PVC

Backfill Type around Well Riser:
Soil Cuttings

Type of Seal:
Bentonite Chips

Type of Filter Pack around Well Screen:
#1 FilPro Sand

Diameter/Type of Well Screen:
0.010" slot 2" I.D. Schedule 40 PVC

Not to Scale

Remarks:

1. See Test Boring Log B-604 for soil information.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		GROUNDWATER MONITORING WELL LOG		Well No.	W-17
				Boring No.	B-618
Project Name:	Micron Campus, Clay, New York			Project No.	28062
Client:	Ramboll			Installation Date	4/19/2024
Location:	See Exploration Location Plan	Surface Elevation	392.7	Riser Elevation	395.5
Driller:	Beau Fletcher	Driller:	Ryan Casatelli	Inspector:	N/A

Well Riser Stickup above Ground Surface: 2.75'

Ground Surface

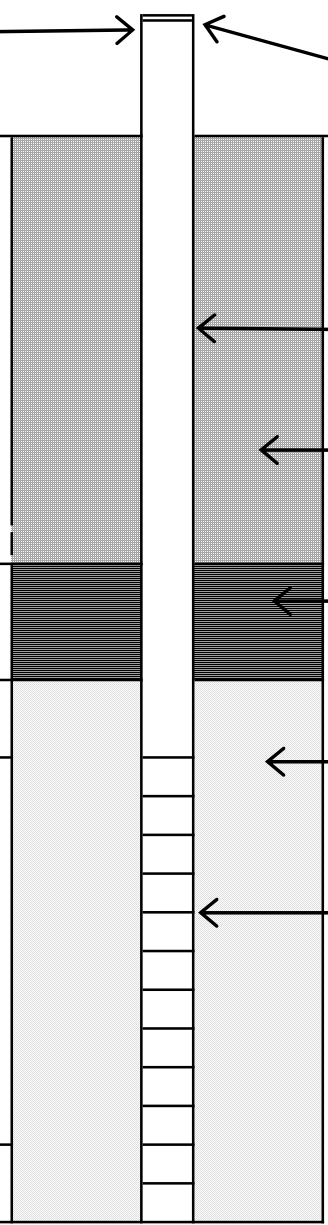
Depth to Top of Seal: 3'

Depth to Top of Filter Pack: 4'

Depth to Top of Well Screen: 5'

Depth to Bottom of Well Screen: 10'

Depth to Bottom of Borehole: 10'



Not to Scale

← Watertight Locking Well Cap

← Diameter/Type of Well Riser:
2" I.D. Schedule 40 PVC

← Backfill Type around Well Riser:
Soil Cuttings

← Type of Seal:
Bentonite Chips

← Type of Filter Pack around Well Screen:
#1 FilPro Sand

← Diameter/Type of Well Screen:
0.010" slot 2" I.D. Schedule 40 PVC

Remarks:

1. See Test Boring Log B-618 for soil information.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		GROUNDWATER MONITORING WELL LOG		Well No.	W-18
				Boring No.	B-676
Project Name:	Micron Campus, Clay, New York			Project No.	28062
Client:	Ramboll			Installation Date	5/6/2024
Location:	See Exploration Location Plan	Surface Elevation	404.3	Riser Elevation	405.8
Driller:	Beau Fletcher	Driller:	Ryan Casatelli	Inspector:	N/A

Well Riser Stickup above Ground Surface: 1.5'

Ground Surface

Depth to Top of Seal: 4.3'

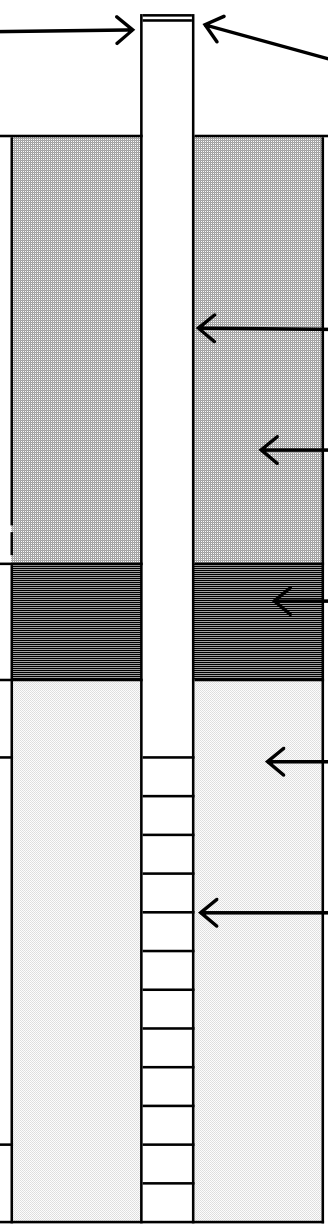
Depth to Top of Filter Pack: 5.3'

Depth to Top of Well Screen: 6.3'

Depth to Bottom of Well Screen: 11.3'

Depth to Bottom of Borehole: 11.3'

Not to Scale



Watertight Locking Well Cap

Diameter/Type of Well Riser:
2" I.D. Schedule 40 PVC

Backfill Type around Well Riser:
Soil Cuttings

Type of Seal:
Bentonite Chips

Type of Filter Pack around Well Screen:
#1 FilPro Sand

Diameter/Type of Well Screen:
0.010" slot 2" I.D. Schedule 40 PVC

Remarks:

1. See Test Boring Log B-676 for soil information.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		GROUNDWATER MONITORING WELL LOG		Well No.	W-19
				Boring No.	B-683
Project Name:	Micron Campus, Clay, New York			Project No.	28062
Client:	Ramboll			Installation Date	5/8/2024
Location:	See Exploration Location Plan	Surface Elevation	394.8	Riser Elevation	396.8
Driller:	Beau Fletcher	Driller:	Ryan Casatelli	Inspector:	N/A

Well Riser Stickup above Ground Surface: 2.0'

Ground Surface

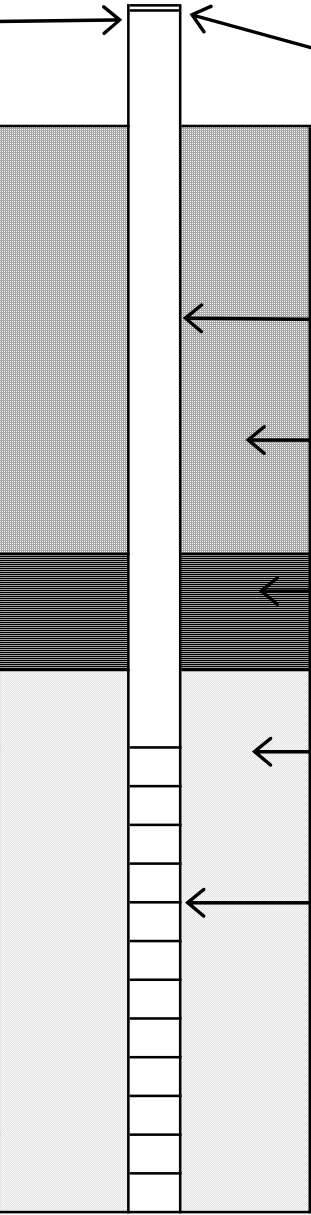
Depth to Top of Seal: 3'

Depth to Top of Filter Pack: 4'

Depth to Top of Well Screen: 5'

Depth to Bottom of Well Screen: 10'

Depth to Bottom of Borehole: 10'



Not to Scale

Diameter/Type of Well Riser:
2" I.D. Schedule 40 PVC

Backfill Type around Well Riser:
Soil Cuttings

Type of Seal:
Bentonite Chips

Type of Filter Pack around Well Screen:
#1 FilPro Sand

Diameter/Type of Well Screen:
0.010" slot 2" I.D. Schedule 40 PVC

Remarks:

1. See Test Boring Log B-683 for soil information.

Bedrock Core Photographs

CME Project No: 28062



Photograph 1 Boring: B-511 Run 1 Depth 15.0' - 20.0' See Photographs Nos. 2 and 3 for detailed views.



Photograph 2 B-511 Run 1 Top Depth 15.0' - 17.5'



Photograph 3 B-511 Run 1 Bottom Depth 17.5' - 20.0'

Bedrock Core Photographs

CME Project No: 28062

**Photograph 4**

Boring: B-511 Run 2 Depth 20.0' - 25.0'

See Photographs Nos. 5 and 6 for detailed views.

**Photograph 5**

B-511 Run 2 Top Depth 20.0' - 22.5'

**Photograph 6**

B-511 Run 2 Bottom Depth 22.5' - 25.0'

Bedrock Core Photographs

CME Project No: 28062



Photograph 7 Boring: B-518 Run 1 Depth 14.4' - 19.4' See Photographs Nos. 8 and 9 for detailed views.



Photograph 8 B-518 Run 1 Top Depth 14.4' - 16.9'



Photograph 9 B-518 Run 1 Bottom Depth 16.9' - 19.4'

Bedrock Core Photographs

CME Project No: 28062



Photograph 10 Boring: B-518 Run 2 Depth 19.4' - 24.4' See Photographs Nos. 11 and 12 for detailed views.



Photograph 11 B-518 Run 2 Top Depth 19.4' - 21.9'



Photograph 12 B-518 Run 2 Bottom Depth 21.9' - 24.4'

Bedrock Core Photographs

CME Project No: 28062



Photograph 13 Boring: B-520 Run 1 Depth 29.1' - 34.1' See Photographs Nos. 14 and 15 for detailed views.



Photograph 14 B-520 Run 1 Top Depth 29.1' - 31.6'



Photograph 15 B-520 Run 1 Bottom Depth 31.6' - 34.1'

Bedrock Core Photographs

CME Project No: 28062



Photograph 16 Boring B-520 Run 2 Depth 34.1' -39.1' See Photographs Nos. 17 and 18 for detailed views.



Photograph 17 B-520 Run 2 Top Depth 34.0' - 36.6'



Photograph 18 B-520 Run 2 Bottom Depth 36.6' - 39.1'

Bedrock Core Photographs

CME Project No: 28062



Photograph 19 Boring B-523 Run 1 Depth 7.2' - 12.2' See Photographs Nos. 20 and 21 for detailed views.



Photograph 20 B-523 Run 1 Top Depth 7.2' - 9.7'



Photograph 21 B-523 Run 1 Bottom Depth 9.7' - 12.2'

Bedrock Core Photographs

CME Project No: 28062



Photograph 22 Boring B-523 Run 2 Depth 12.2' - 17.2' See Photographs Nos. 23 and 24 for detailed views.



Photograph 23 B-523 Run 2 Top Depth 12.2' - 14.7'



Photograph 24 B-523 Run 2 Bottom Depth 14.7' -17.2'

Bedrock Core Photographs

CME Project No: 28062



Photograph 25 Boring B-526 Run 1 Depth 13.5' - 18.5' See Photographs Nos. 26 and 27 for detailed views.



Photograph 26 B-526 Run 1 Top Depth 13.5' - 16.0'



Photograph 27 B-526 Run 1 Bottom Depth 16.0' - 18.5'

Bedrock Core Photographs

CME Project No: 28062



Photograph 28 Boring B-526 Run 2 Depth 18.5' - 23.5' See Photographs Nos. 29 and 30 for detailed views.



Photograph 29 B-526 Run 2 Top Depth 18.5' - 21.0'



Photograph 30 B-526 Run 2 Bottom Depth 21.0' - 23.5'

Bedrock Core Photographs

CME Project No: 28062



Photograph 31 Boring B-532 Run 1 Depth 24.0' - 29.0' See Photographs Nos. 32 and 33 for detailed views.



Photograph 32 B-532 Run 1 Top Depth 24.0' - 26.5'



Photograph 33 B-532 Run 1 Bottom Depth 26.5' - 29.0'

Bedrock Core Photographs

CME Project No: 28062



Photograph 34 Boring: B-532 Run 2 Depth 29.0' - 34.0' See Photographs Nos. 35 and 36 for detailed views.



Photograph 35 B-532 Run 2 Top Depth 29.0 - 31.5'



Photograph 36 B-532 Run 2 Bottom Depth 31.5' - 34.0'

Bedrock Core Photographs

CME Project No: 28062



Photograph 37 Boring: B-536 Run 1 Depth 16.0' - 21.0' See Photographs Nos. 38 and 39 for detailed views.



Photograph 38 B-536 Run 1 Top Depth 16.0' - 18.5'



Photograph 39 B-536 Run 1 Bottom Depth 18.5' - 21'

Bedrock Core Photographs

CME Project No: 28062

**Photograph 40**

Boring: B-536 Run 2 Depth 21.0'- 26.0'

See Photographs Nos. 41 and 42 for detailed views.

**Photograph 41**

B-536 Run 2 Top Depth 21.0' - 23.5'

**Photograph 42**

B-536 Run 2 Bottom Depth 23.5' - 26.0'

Bedrock Core Photographs

CME Project No: 28062



Photograph 43 Boring B-543 Run 1 Depth 20.2' -25.2' See Photographs Nos. 44 and 45 for detailed views.



Photograph 44 B-543 Run 1 Top Depth 20.2' - 22.7'



Photograph 45 B-543 Run 1 Bottom Depth 22.7' - 25.2'

Bedrock Core Photographs

CME Project No: 28062



Photograph 46 Boring B-543 Run 2 Depth 25.2' - 30.2' See Photographs Nos. 47 and 48 for detailed views.



Photograph 47 B-543 Run 2 Top Depth 25.2' - 27.9'



Photograph 48 B-543 Run 2 Bottom Depth 27.9' - 30.2'

Bedrock Core Photographs

CME Project No: 28062

**Photograph 49**

Boring

B-544

Run 1

Depth

15.5' - 20.5'

See Photographs Nos. 50 and 51 for detailed views.

**Photograph 50**

B-544

Run 1

Top

Depth

15.5' - 18.0'

**Photograph 51**

B-544

Run 1

Bottom

Depth

18.0' - 20.5'

Bedrock Core Photographs

CME Project No: 28062

**Photograph 52**

Boring

B-544

Run 2

Depth

20.5' - 25.5'

See Photographs Nos. 53 and 54 for detailed views.

**Photograph 53**

B-544

Run 2

Top

Depth

20.5' - 23.0'

**Photograph 54**

B-544

Run 2

Bottom

Depth

23.0' - 25.5'

Bedrock Core Photographs

CME Project No: 28062

**Photograph 55**

Boring

B-545

Run 1

Depth

25.7' - 30.7'

See Photographs Nos. 56 and 57 for detailed views.

**Photograph 56**

B-545

Run 1

Top

Depth

25.7' - 28.2'

**Photograph 57**

B-545

Run 1

Bottom

Depth

28.2' - 30.7'

Bedrock Core Photographs

CME Project No: 28062

**Photograph 58**

Boring

B-545

Run 2

Depth

30.7' - 35.7'

See Photographs Nos. 59 and 60 for detailed views.

**Photograph 59**

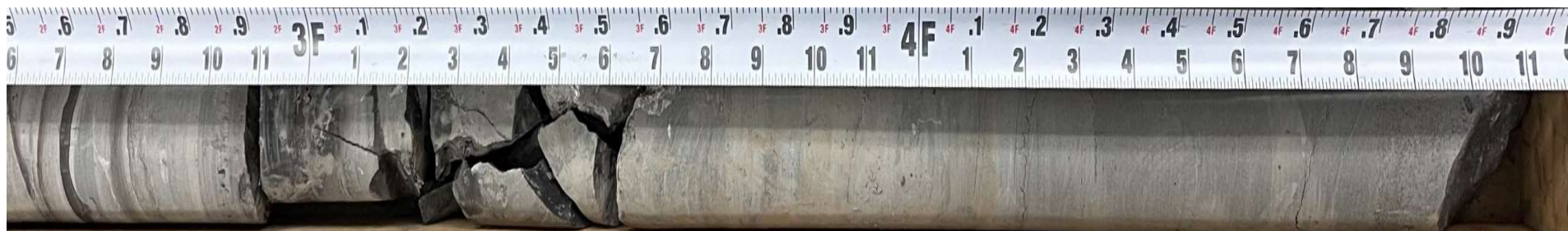
B-545

Run 2

Top

Depth

30.7' - 33.2'

**Photograph 60**

B-545

Run 2

Bottom

Depth

33.2' - 35.7'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 61 Boring: B-547 Run 1 Depth 21.0' - 26.0' See Photographs Nos. 62 and 63 for detailed views.



Photograph 62 B-547 Run 1 Top Depth 21.0' - 23.5'



Photograph 63 B-547 Run 1 Bottom Depth 23.5' - 26.0'

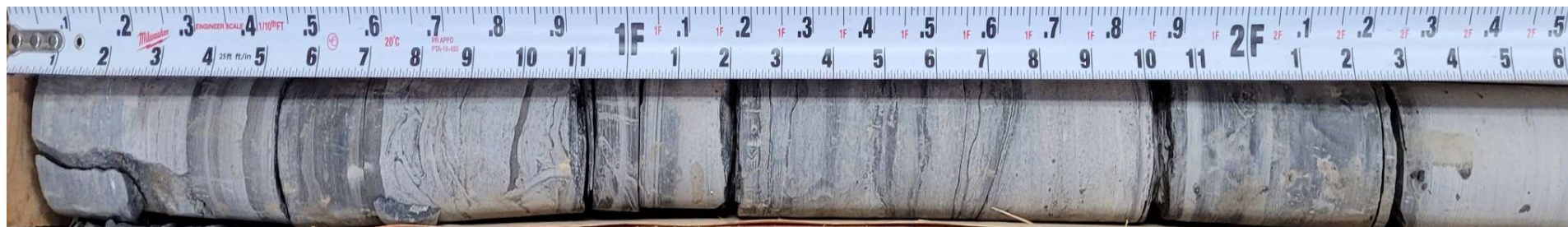
Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624

**Photograph 64**

Boring: B-547 Run 2 Depth 26.0' - 31.0'

See Photographs Nos. 65 and 66 for detailed views.

**Photograph 65**

B-547 Run 2 Top Depth 26.0' - 28.5'

**Photograph 66**

B-547 Run 2 Bottom Depth 28.5' - 31.0'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624

**Photograph 67**

Boring: B-549 Run 1 Depth 25.1' - 30.1'

See Photographs Nos. 68 and 69 for detailed views.

**Photograph 68**

B-549 Run 1 Top Depth 25.1' - 27.6'

**Photograph 69**

B-549 Run 1 Bottom Depth 27.6' - 30.1'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 70 Boring: B-549 Run 2 Depth 30.1' - 35.1' See Photographs Nos. 71 and 72 for detailed views.



Photograph 71 B-549 Run 2 Top Depth 30.1' - 32.6'



Photograph 72 B-549 Run 2 Bottom Depth 32.6' - 35.1'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624

**Photograph 73**

Boring: B-561 Run 1 Depth 20.4' - 25.4'

See Photographs Nos. 74 and 75 for detailed views.

**Photograph 74**

B-561 Run 1 Top Depth 20.4' - 22.9'

**Photograph 75**

B-561 Run 1 Bottom Depth 22.9' - 25.4'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 76 Boring B-561 Run 2 Depth 25.4' -30.4' See Photographs Nos. 77 and 78 for detailed views.



Photograph 77 B-561 Run 2 Top Depth 25.4' - 27.9'



Photograph 78 B-561 Run 2 Bottom Depth 27.9' - 30.4'

Bedrock Core Photographs

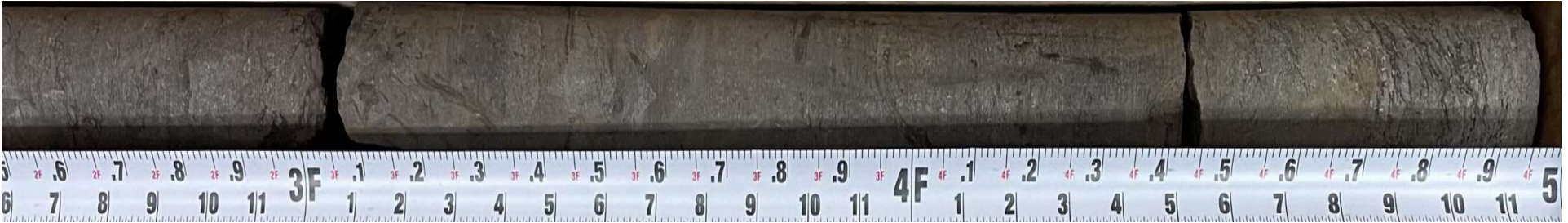
Attachment to CME Report No: 28062B-01-0624



Photograph 79 Boring B-565 Run 1 Depth 18.0' - 23.0' See Photographs Nos. 80 and 81 for detailed views.



Photograph 80 B-565 Run 1 Top Depth 18.0' - 20.5'



Photograph 81 B-565 Run 1 Bottom Depth 20.5' - 23.0'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 82 Boring B-565 Run 2 Depth 23.0' - 28.0' See Photographs Nos. 83 and 84 for detailed views.



Photograph 83 B-565 Run 2 Top Depth 23.0' - 25.5'



Photograph 84 B-565 Run 2 Bottom Depth 25.5' -28.0'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 85 Boring B-571 Run 1 Depth 9.5' - 14.5' See Photographs Nos. 86 and 87 for detailed views.



Photograph 86 B-571 Run 1 Top Depth 9.5' - 12.0'



Photograph 87 B-571 Run 1 Bottom Depth 12.0' - 14.5'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 88 Boring B-571 Run 2 Depth 14.5' - 19.5' See Photographs Nos. 89 and 90 for detailed views.



Photograph 89 B-571 Run 2 Top Depth 14.5' - 17.0'



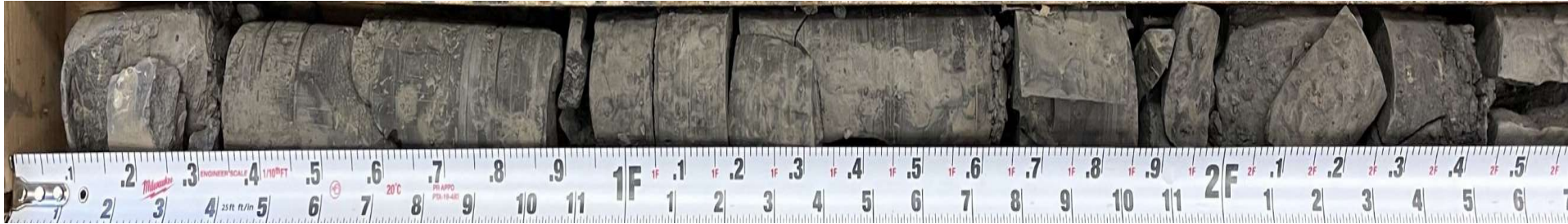
Photograph 90 B-571 Run 2 Bottom Depth 17.0' - 19.5'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 91 Boring B-585 Run 1 Depth 11.0' - 16.0' See Photographs Nos. 92 and 93 for detailed views.



Photograph 92 B-585 Run 1 Top Depth 11.0' - 13.5'



Photograph 93 B-585 Run 1 Bottom Depth 13.5' - 16.0'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 94 Boring: B-585 Run 2 Depth 16.0' - 21.0' See Photographs Nos. 95 and 96 for detailed views.



Photograph 95 B-585 Run 2 Top Depth 16.0 - 18.5'



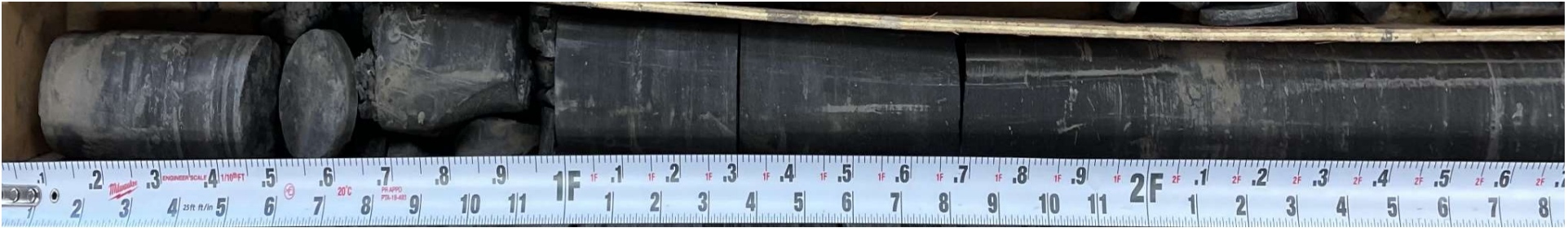
Photograph 96 B-585 Run 2 Bottom Depth 18.5' - 21.0'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 97 Boring: B-588 Run 1 Depth 11.0' - 16.0' See Photographs Nos. 98 and 99 for detailed views.



Photograph 98 B-588 Run 1 Top Depth 11.0' - 13.5'



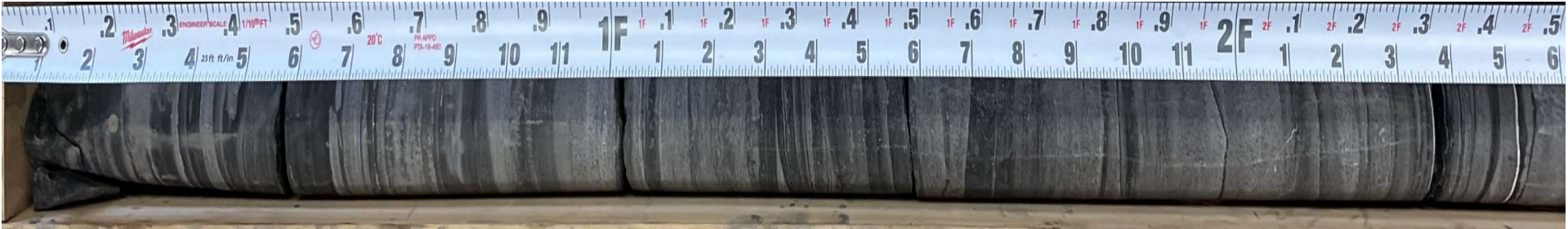
Photograph 99 B-588 Run 1 Bottom Depth 13.5' - 16.0'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 100 Boring: B-588 Run 2 Depth 16.0'- 21.0' See Photographs Nos. 101 and 102 for detailed views.



Photograph 101 B-588 Run 2 Top Depth 16.0' - 18.5'



Photograph 102 B-588 Run 2 Bottom Depth 18.5' - 21.0'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 103 Boring B-594 Run 1 Depth 19.5' -24.5' See Photographs Nos. 104 and 105 for detailed views.



Photograph 104 B-594 Run 1 Top Depth 19.5' - 22.0'



Photograph 105 B-594 Run 1 Bottom Depth 22.0' - 24.5'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 106 Boring B-594 Run 2 Depth 24.5' - 29.5' See Photographs Nos. 107 and 108 for detailed views.



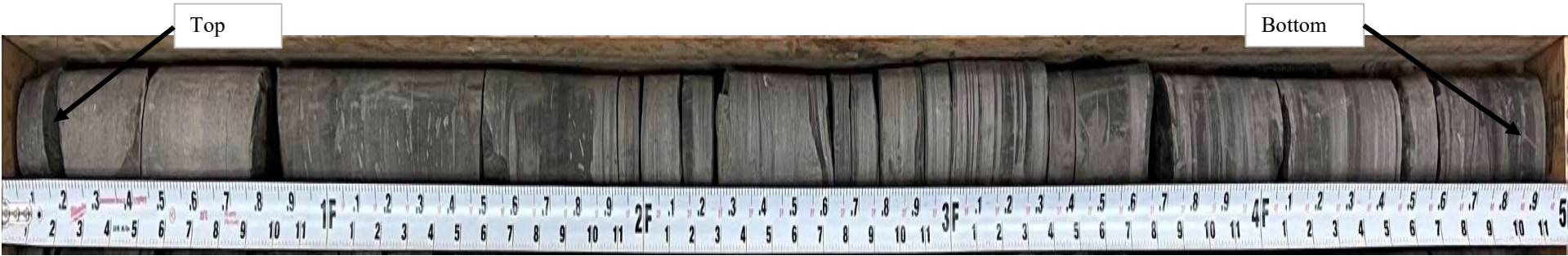
Photograph 107 B-594 Run 2 Top Depth 24.5' - 27.0'



Photograph 108 B-594 Run 2 Bottom Depth 27.0' - 29.5'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 109 Boring B-595 Run 1 Depth 18.6' - 23.6' See Photographs Nos. 110 and 111 for detailed views.



Photograph 110 B-595 Run 1 Top Depth 18.6' - 21.1'



Photograph 111 B-595 Run 1 Bottom Depth 21.1' -23.6'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 112 Boring B-595 Run 2 Depth 23.6' - 28.6' See Photographs Nos. 113 and 114 for detailed views.



Photograph 113 B-595 Run 2 Top Depth 23.6 - 26.1



Photograph 114 B-595 Run 2 Bottom Depth 26.1' - 28.6'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 115 Boring B-602 Run 1 Depth 21.8' - 26.8' See Photographs Nos. 116 and 117 for detailed views.



Photograph 116 B-602 Run 1 Top Depth 21.8' - 24.3'



Photograph 117 B-602 Run 1 Bottom Depth 24.3' - 26.8'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 118 Boring B-602 Run 2 Depth 26.8' - 31.8' See Photographs Nos. 119 and 120 for detailed views.



Photograph 119 B-602 Run 2 Top Depth 26.8' - 29.3'



Photograph 120 B-602 Run 2 Bottom Depth 28.3' - 31.8'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624

**Photograph 121**

Boring: B-604 Run 1 Depth 25.0' - 30.0'

See Photographs Nos. 122 and 123 for detailed views.

**Photograph 122**

B-604 Run 1 Top Depth 25.0' - 27.5'

**Photograph 123**

B-604 Run 1 Bottom Depth 27.5' - 30.0'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624

**Photograph 124**

Boring: B-604 Run 2 Depth 30.0' - 35.0'

See Photographs Nos. 125 and 126 for detailed views.

**Photograph 125**

B-604 Run 2 Top Depth 30.0' - 32.5'

**Photograph 126**

B-604 Run 2 Bottom Depth 32.5' - 35.0'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 127 Boring: B-612 Run 1 Depth 23.6' - 28.6' See Photographs Nos. 128 and 129 for detailed views.



Photograph 128 B-612 Run 1 Top Depth 23.6' - 26.1'



Photograph 129 B-612 Run 1 Bottom Depth 26.1' - 28.6'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624

**Photograph 130**

Boring: B-612 Run 2 Depth 28.6' - 33.6'

See Photographs Nos. 131 and 132 for detailed views.

**Photograph 131**

B-612 Run 2 Top Depth 28.6' - 31.1'

**Photograph 132**

B-612 Run 2 Bottom Depth 31.1' - 33.6'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 133 Boring: B-616 Run 1 Depth 24.2' - 29.2' See Photographs Nos. 134 and 135 for detailed views.



Photograph 134 B-616 Run 1 Top Depth 24.2' - 26.7'



Photograph 135 B-616 Run 1 Bottom Depth 26.7' - 29.2'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624

**Photograph 136**

Boring

B-616

Run 2

Depth

29.2' -34.2'

See Photographs Nos. 137 and 138 for detailed views.

**Photograph 137**

B-616

Run 2

Top

Depth

29.2' - 31.7'

**Photograph 138**

B-616

Run 2

Bottom

Depth

31.7' - 34.2'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624

**Photograph 139**

Boring

B-624

Run 1

Depth

24.1' - 29.1'

See Photographs Nos. 140 and 141 for detailed views.

**Photograph 140**

B-624

Run 1

Top

Depth

24.1' - 26.6'

**Photograph 141**

B-624

Run 1

Bottom

Depth

26.6' - 29.1'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 142 Boring B-624 Run 2 Depth 29.1' - 34.1' See Photographs Nos. 143 and 144 for detailed views.



Photograph 143 B-624 Run 2 Top Depth 29.1' - 31.6'



Photograph 144 B-624 Run 2 Bottom Depth 31.6' - 34.1'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 145 Boring B-625 Run 1 Depth 16.0' - 21.0' See Photographs Nos. 146 and 147 for detailed views.



Photograph 146 B-625 Run 1 Top Depth 16.0' - 18.5'



Photograph 147 B-625 Run 1 Bottom Depth 18.5' - 21.0'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 148 Boring B-625 Run 2 Depth 21.0' - 26.0' See Photographs Nos. 149 and 150 for detailed views.



Photograph 149 B-625 Run 2 Top Depth 21.0' - 23.5'



Photograph 150 B-625 Run 2 Bottom Depth 23.5' - 26.0'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 151 Boring B-630 Run 1 Depth 22.0' - 27.0' See Photographs Nos. 152 and 153 for detailed views.



Photograph 152 B-630 Run 1 Top Depth 22.0' - 24.5'



Photograph 153 B-630 Run 1 Bottom Depth 24.5' - 27.0'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624

**Photograph 154**

Boring: B-630 Run 2 Depth 27.0' - 32.0'

See Photographs Nos. 155 and 156 for detailed views.

**Photograph 155**

B-630 Run 2 Top Depth 27.0 - 29.5'

**Photograph 156**

B-630 Run 2 Bottom Depth 29.5' - 32.0'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 157 Boring: B-632 Run 1 Depth 22.0' - 27.0' See Photographs Nos. 158 and 159 for detailed views.



Photograph 158 B-632 Run 1 Top Depth 22.0' - 24.5'



Photograph 159 B-632 Run 1 Bottom Depth 24.5' - 27.0'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624

**Photograph 160**

Boring: B-632 Run 2 Depth 27.0' - 32.0'

See Photographs Nos. 161 and 162 for detailed views.

**Photograph 161**

B-632 Run 2 Top Depth 27.0' - 29.5'

**Photograph 162**

B-632 Run 2 Bottom Depth 29.5' - 32.0'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 163 Boring B-664 Run 1 Depth 25.1' - 30.1' See Photographs Nos. 164 and 165 for detailed views.



Photograph 164 B-664 Run 1 Top Depth 25.1' - 27.6'



Photograph 165 B-664 Run 1 Bottom Depth 27.6' - 30.1'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 166 Boring B-664 Run 2 Depth 30.1' - 35.1' See Photographs Nos. 167 and 168 for detailed views.



Photograph 167 B-664 Run 2 Top Depth 30.1' - 32.6'



Photograph 168 B-664 Run 2 Bottom Depth 32.6' - 35.1'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 169 Boring B-669 Run 1 Depth 13.2' - 18.2' See Photographs Nos. 170 and 171 for detailed views.



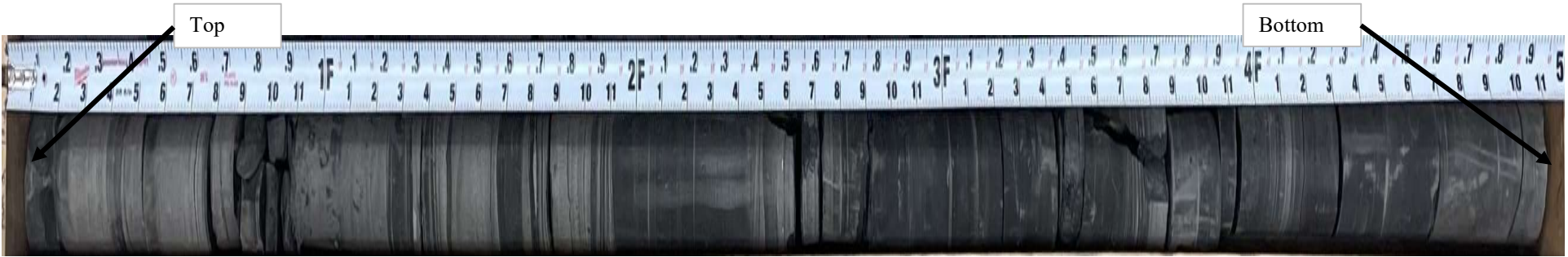
Photograph 170 B-669 Run 1 Top Depth 13.2' - 15.7'



Photograph 171 B-669 Run 1 Bottom Depth 15.7' - 18.2'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 172 Boring B-669 Run 2 Depth 18.2' - 23.2' See Photographs Nos. 173 and 174 for detailed views.



Photograph 173 B-669 Run 2 Top Depth 18.2' - 20.7'



Photograph 174 B-669 Run 2 Bottom Depth 20.7' - 23.2'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 175 Boring B-675 Run 1 Depth 10.5' - 15.5' See Photographs Nos. 176 and 177 for detailed views.



Photograph 176 B-675 Run 1 Top Depth 10.5' - 13.0'



Photograph 177 B-675 Run 1 Bottom Depth 13.0' - 15.5'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 178 Boring B-675 Run 2 Depth 15.5' - 20.5' See Photographs Nos. 179 and 180 for detailed views.



Photograph 179 B-675 Run 2 Top Depth 15.5' - 18.0'



Photograph 180 B-675 Run 2 Bottom Depth 18.0' - 20.5'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 181 Boring B-688 Run 1 Depth 16.0' - 21.0' See Photographs Nos. 182 and 183 for detailed views.



Photograph 182 B-688 Run 1 Top Depth 16.0' - 18.5'



Photograph 183 B-688 Run 1 Bottom Depth 18.5' - 21.0'

Bedrock Core Photographs

Attachment to CME Report No: 28062B-01-0624



Photograph 184 Boring B-688 Run 2 Depth 21.0' - 26.0' See Photographs Nos. 185 and 186 for detailed views.



Photograph 185 B-688 Run 2 Top Depth 21.0' - 23.5'



Photograph 186 B-688 Run 2 Bottom Depth 23.5' - 26.0'

Remarks:

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION AUGER PROBE LOG				Probe No.		B-525			
						Page No.		1 of 1			
						Report No.		28062B-04-0624			
Project Name:		Micron Campus, Clay, New York				Date Started		04/16/24			
Client:		Ramboll				Date Finished		04/16/24			
Location:		See Exploration Location Plan, ELP-1				Surface Elev.		396.4'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller:		Al Linstruth		Casing:		3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)
Driller:		John Winks		Casing Hammer:				04/16/24	While Drilling	N/A	N/A
Inspector:				Other:				04/16/24	Before Casing Removed	N/A	N/A
Drill Rig:		CME 550X		Soil Sampler:				04/16/24	After Casing Removed	6.5	out
Type:		ATV		Hammer Wt:				04/16/24	After Casing Removed	caved @ 6.9	out
Rod Size:		AWJ		Hammer Fall:							
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0							AUGER PROBE - No Sampling				
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
							Augers gravelly from 7.7' to 10.0'				
							Auger Refusal @ 12.2'				
							Bottom of Boring @ 12.2'				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522					SUBSURFACE EXPLORATION AUGER PROBE LOG				Probe No. B-528		Page No. 1 of 1	
						Report No. 28062B-04-0624						
Project Name: Micron Campus, Clay, New York						Date Started 04/16/24						
Client: Ramboll						Date Finished 04/16/24						
Location: See Exploration Location Plan, ELP-1						Surface Elev. 395.8'						
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS							
Driller: Al Linstruth		Casing: 3 ¼" ID H.S.A.		DateTimeDepth (Ft.)Casing At (Ft.) 04/16/24While DrillingN/AN/A 04/16/24Before Casing RemovedN/AN/A 04/16/24After Casing Removed5.4out 04/16/24After Casing Removedcaved @ 7.5out								
Driller: John Winks		Casing Hammer:										
Inspector:		Other:										
Drill Rig: CME 550X		Soil Sampler:										
Type: ATV		Hammer Wt:										
Rod Size: AWJ		Hammer Fall:										
LOG OF BORING SAMPLES				VISUAL CLASSIFICATION OF MATERIAL								
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %		
		From	To									
0							AUGER PROBE - No Sampling					
1												
2												
3												
4												
5												
6												
7												
8												
9												
10							Auger Refusal @ 9.8' Bottom of Boring @ 9.8'					
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-501			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/09/24			
Client: Ramboll				Date Finished		05/09/24			
Location: See Exploration Location Plan				Surface Elev.		405.5'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector:		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/09/24	While Drilling	None Noted	23.7		
				05/09/24	Before Casing Removed	None Noted	23.7		
				05/09/24	After Casing Removed	4.5	out		
				05/09/24	After Casing Removed	caved @ 4.7	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	1.0	SS/16	1-2-3-4		Topsoil and Organic Material (moist)		5
1	1B	1.0	2.0				-----		
2	2	2.0	4.0	SS/17	4-5-6-7		Brown SILT, little CLAY (moist, medium stiff)		
3									
4	3	4.0	6.0	SS/11	4-2-5-7		Brown/Grey mottled SILT, trace CLAY, trace fine SAND (wet, stiff)		11
5									
6	4	6.0	8.0	SS/17	8-8-8-10		Brown SILT, trace CLAY (moist, very stiff)		7
7									
8	5	8.0	10.0	SS/20	6-7-10-10		Similar as above (moist, very stiff)		16
9									
10									
11									
12							-----		
13	6	13.5	15.0	SS/14	3-5-7		Grey/Brown/Red mf GRAVEL, little cmf SAND, little SILT (wet, medium compact)		12
14									
15									
16									
17									
18	7	18.5	18.5	SS/0	50@0"		No Recovery - Split Spoon Refusal		50+
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.		B-501	
									Page No.		2 of 2	
									Project No.		28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) FromTo		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %		
20	8	23.5	23.7	SS/2	50@2"		Continued from Page 1				50+	
21												
22												
23												
24							Grey cmf GRAVEL, little cmf SAND, trace SILT (moist, very compact)					
25							Bottom of Boring @ 23.7'					
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
41												
42												
43												
44												
45												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-502			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/10/24			
Client: Ramboll				Date Finished		05/10/24			
Location: See Exploration Location Plan				Surface Elev.		400.4'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector:		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/10/24	While Drilling	None Noted	20.4		
				05/10/24	Before Casing Removed	None Noted	20.4		
				05/10/24	After Casing Removed	None Noted	out		
				05/10/24	After Casing Removed	caved @ 7.5	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	1.0	SS/18	WH-1-4-5		Topsoil and Organic Material (moist)		5
1	1B	1.0	2.0				Brown SILT, trace fine SAND (wet, medium stiff)		
2	2	2.0	4.0	SS/18	3-5-6-7		Brown SILT, trace fine SAND, trace CLAY (wet, stiff)		11
3									
4	3	4.0	6.0	SS/16	11-10-13-15		Similar as above (moist, very stiff)		23
5									
6	4	6.0	8.0	SS/23	11-13-17-18		Grey SILT, trace CLAY (moist, hard)		30
7									
8	5	8.0	10.0	SS/16	9-14-16-17		Grey SILT, trace CLAY (moist, hard)		30
9									
10									
11									
12									
13	6	13.5	15.0	SS/18	7-10-21		Dark Grey SILT, trace cmf SAND, trace mf GRAVEL (moist, hard)		31
14									
15									
16									
17									
18	7	18.5	19.8	SS/18	27-30-50@4"		Light Grey SILT, some cmf SAND, trace fine GRAVEL (moist, hard)		50+
19							Auger Refusal @ 20.4'		
20							Bottom of Boring @ 20.4'		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-503			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/13/24			
Client: Ramboll				Date Finished		05/13/24			
Location: See Exploration Location Plan				Surface Elev.		400.8'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Gary Richards		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector:		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/13/24	While Drilling	17.8	18.5		
				05/13/24	Before Casing Removed	17.8	18.5		
				05/13/24	After Casing Removed	2.6	out		
				05/13/24	After Casing Removed	caved @ 3.2	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	1.5	SS/11	WH-1-1-5		Topsoil and Organic Material (moist)		2
1	1B 2	1.5	2.0	SS/18	7-9-9-9		Brown SILT, trace fine SAND, trace CLAY (wet, soft) Brown SILT, trace CLAY (wet, very stiff)		18
2		2.0	4.0						
3									
4	3	4.0	6.0	SS/16	5-9-9-11		Similar as above (wet, very stiff)		18
5	4	6.0	8.0	SS/20	7-9-8-9		Similar as above (wet, very stiff)		17
6									
7									
8	5	8.0	10.0	SS/17	8-18-29-23		Light Grey/Brown SILT, trace CLAY (moist, hard)		47
9	6	13.5	14.2	SS/7	47-50@2"		Augers harder beginning @ 11.8' Grey SILT, little mf GRAVEL, little cmf SAND (moist, hard)		50+
10									
11									
12									
13									
14									
15	7	18.5	18.5	SS/0	50@0"	No Recovery - Split Spoon Refusal Bottom of Boring @ 18.5'		50+	
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-504			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/10/24			
Client: Ramboll				Date Finished		05/10/24			
Location: See Exploration Location Plan				Surface Elev.		404.4'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector:		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/10/24	While Drilling	None Noted	23.5		
				05/10/24	Before Casing Removed	None Noted	23.5		
				05/10/24	After Casing Removed	10.6	out		
				05/10/24	After Casing Removed	caved @ 13.0	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	1.0	SS/16	1-1-3-3		Topsoil and Organic Material (moist)		4
1	1B	1.0	2.0						
2	2	2.0	4.0	SS/22	4-5-9-4		Brown/Grey mottled SILT, little CLAY, trace ROOTS (moist, medium stiff) Brown SILT, trace CLAY (wet, stiff)		14
3									
4	3	4.0	6.0	SS/16	4-5-6-7		Brown SILT, trace CLAY (wet, stiff)		11
5									
6	4	6.0	8.0	SS/20	4-7-7-7		Similar as above (wet, stiff)		14
7									
8	5	8.0	10.0	SS/23	4-10-10-15		Brown SILT, trace CLAY, trace cmf SAND (wet, very stiff)		20
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/12	2-4-10		Grey SILT, some cmf SAND, trace fine GRAVEL (wet, stiff)		14
15									
16									
17									
18									
19	7	18.5	19.3	SS/12	44-50@4"		Grey SILT, some cmf SAND, little cmf GRAVEL (moist, hard)		50+
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.	B-504
							Page No.	2 of 2		
							Project No.	28062		
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	8	23.5	23.8	SS/4	50@4"		Continued from Page 1		50+	
21										
22										
23										
24							Grey SILT, some cmf SAND, trace fine GRAVEL (moist, hard)			
25							Bottom of Boring @ 23.8'			
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-505			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/10/24			
Client: Ramboll				Date Finished		05/10/24			
Location: See Exploration Location Plan				Surface Elev.		406.1'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector:		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/10/24	While Drilling	None Noted	18.5		
				05/10/24	Before Casing Removed	None Noted	18.5		
				05/10/24	After Casing Removed	None Noted	out		
				05/10/24	After Casing Removed	caved @ 3.0	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	1.0	SS/16	1-1-2-3		Topsoil and Organic Material (moist)		3
1	1B	1.0	2.0				Brown/Grey mottled SILT, little CLAY (moist, soft)		
2	2	2.0	4.0	SS/22	5-8-5-6		Brown SILT, trace CLAY (wet, stiff)		13
3									
4	3	4.0	6.0	SS/15	5-6-10-10		Brown SILT, trace CLAY, trace fine SAND (wet, very stiff)		16
5									
6	4	6.0	8.0	SS/22	5-7-7-7		Brown SILT, trace CLAY (wet, stiff)		14
7									
8	5	8.0	10.0	SS/20	6-16-20-16		Brown SILT, trace mf GRAVEL, trace cmf SAND (moist, hard)		36
9									
10									
11									
12									
13									
14	6	13.5	14.3	SS/8	30-50@3"		Grey SILT, some cmf SAND, trace mf GRAVEL (moist, hard)		50+
15									
16									
17									
18									
19	7	18.5	18.7	SS/3	50@3"		Grey cmf GRAVEL, some cmf SAND, some SILT (moist, very compact)		50+
20							Bottom of Boring @ 18.7'		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-506			
						Page No.		1 of 1			
						Project No.		28062			
Project Name:		Micron Campus, Clay, New York				Date Started		05/13/24			
Client:		Ramboll				Date Finished		05/13/24			
Location:		See Exploration Location Plan				Surface Elev.		399.6'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: Gary Richards		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: Ryan Casatelli		Casing Hammer:									
Inspector:		Other:									
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel									
Type: ATV		Hammer Wt: 140 lbs.									
Rod Size: AWJ		Hammer Fall: 30 in.		05/13/24		While Drilling		None Noted		11.7	
05/13/24		Before Casing Removed		10.6		11.7					
05/13/24		After Casing Removed		4.8		out					
05/13/24		After Casing Removed		caved @ 5.0		out					
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	1.0	SS/11	1-1-2-2		Topsoil and Organic Material (moist)				3
1	1B	1.0	2.0				Brown SILT, little CLAY, trace fine GRAVEL, trace cmf SAND (moist, soft)				
2	2	2.0	4.0	SS/16	2-3-5-5		Brown SILT, little cmf SAND, trace fine GRAVEL (wet, stiff)				8
3											
4	3	4.0	6.0	SS/15	3-3-4-4		Brown SILT, little cmf SAND, trace fine GRAVEL (wet, medium stiff)				7
5											
6	4	6.0	8.0	SS/18	7-3-6-10		Brown SILT, little mf GRAVEL, trace cmf SAND (wet, stiff)				9
7											
8	5	8.0	9.9	SS/19	11-20-27-50@5"		Black/Grey highly weathered ROCK Fragments (Shale), some SILT, trace cmf SAND (moist, compact)				47
9											
10											
11											
12	6	11.6	11.7	SS/1	50@1"		Black ROCK Fragments (Shale) (moist)				50+
13							Bottom of Boring @ 11.7'				
14											
15											
16											
17											
18											
19											
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-507			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/13/24			
Client: Ramboll				Date Finished		05/13/24			
Location: See Exploration Location Plan				Surface Elev.		403.8'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Gary Richards		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector:		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/13/24	While Drilling	None Noted	19.4		
				05/13/24	Before Casing Removed	None Noted	19.4		
				05/13/24	After Casing Removed	2.3	out		
				05/13/24	After Casing Removed	caved @ 3.3	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	1.0	SS/16	WH-1-3-6		Topsoil and Organic Material (moist)		4
1	1B	1.0	2.0				Brown SILT, trace CLAY (moist, medium stiff)		
2	2	2.0	4.0	SS/17	3-4-5-4		Brown SILT, trace CLAY (moist, stiff)		9
3									
4	3	4.0	6.0	SS/16	2-6-7-7		Similar as above (wet, stiff)		13
5									
6	4	6.0	8.0	SS/18	8-8-9-10		Similar as above (wet, very stiff)		17
7									
8	5	8.0	10.0	SS/20	6-8-11-10		Similar as above (moist, very stiff)		19
9									
10									
11									
12									
13	6	13.5	15.0	SS/7	7-12-46		Dark Grey/Black weathered ROCK Fragments (Shale) and ROCK Flour (moist)		58
14									
15									
16									
17									
18									
19	7	18.5	19.4	SS/9	33-50@5"		Grey SILT, some cmf SAND, little mf GRAVEL (moist, hard)		50+
20							Bottom of Boring @ 19.4'		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-508			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/09/24			
Client: Ramboll				Date Finished		05/09/24			
Location: See Exploration Location Plan				Surface Elev.		404.7'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector:		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/09/24	While Drilling	None Noted	18.5		
				05/09/24	Before Casing Removed	None Noted	18.5		
				05/09/24	After Casing Removed	6.0	out		
				05/09/24	After Casing Removed	caved @ 11.0	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/19	1-1-2-4		Brown SILT, trace CLAY, trace ORGANIC MATERIAL, trace fine SAND (moist, soft)		3
1									
2	2	2.0	4.0	SS/20	3-3-3-4		Brown/Grey mottled SILT, little CLAY (moist, medium stiff)		6
3									
4	3	4.0	6.0	SS/14	5-4-5-6		Brown SILT, trace cmf SAND, trace fine GRAVEL (wet, stiff)		9
5									
6	4	6.0	8.0	SS/20	3-4-5-8		Brown SILT, trace CLAY (wet, stiff)		9
7									
8	5	8.0	10.0	SS/15	3-4-8-13		Similar as above (moist, stiff)		12
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/12	20-26-30		Grey SILT, some mf GRAVEL, trace cmf SAND (moist, hard)		56
15									
16									
17									
18									
19	7	18.5	18.8	SS/4	50@4"		Grey SILT, little fine GRAVEL, trace cmf SAND (moist, hard)		50+
20							Bottom of Boring @ 18.8'		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-509			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/10/24			
Client: Ramboll				Date Finished		05/10/24			
Location: See Exploration Location Plan				Surface Elev.		404.7'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector:		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/10/24	While Drilling	20.7	23.5		
				05/10/24	Before Casing Removed	20.7	23.5		
				05/10/24	After Casing Removed	None Noted	out		
				05/10/24	After Casing Removed	caved @ 2.6	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	1.0	SS/16	1-WH-2-3		Topsoil and Organic Material (moist)		2
1	1B	1.0	2.0				-----		
2	2	2.0	4.0	SS/18	6-7-7-7		Brown/Grey SILT, little CLAY, trace fine SAND, trace ROOTS (moist, soft)		14
3							Brown SILT, trace fine SAND (wet, stiff)		
4	3	4.0	6.0	SS/20	4-5-5-6		Brown SILT, trace mf SAND (wet, stiff)		10
5									
6	4	6.0	8.0	SS/23	3-8-13-17		Brown SILT, trace fine SAND (moist, very stiff)		21
7							-----		
8	5	8.0	10.0	SS/20	5-7-25-11		Brown SILT, little mf GRAVEL, little cmf SAND (wet, hard)		32
9									
10									
11									
12									
13	6	13.5	15.0	SS/18	14-11-27		Brown SILT, little cmf GRAVEL, trace cmf SAND (moist, hard)		38
14									
15									
16									
17									
18	7	18.5	20.0	SS/4	50@4"		Grey cmf GRAVEL and SILT, little cmf SAND (moist, very compact)		50+
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.	B-509
									Page No.	2 of 2
									Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	8	23.5	23.8	SS/3	50@3"		Continued from Page 1		50+	
21										
22										
23										
24										
25										
26										
27										
28										
29										
30							Grey SILT, some cmf SAND, little cmf GRAVEL (moist, hard)			
31										
32										
33										
34										
35										
36										
37										
38										
39										
40							Bottom of Boring @ 23.8'			
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-510									
				Page No.		1 of 2									
				Project No.		28062									
Project Name:		Micron Campus, Clay, New York				Date Started		05/09/24							
Client:		Ramboll				Date Finished		05/09/24							
Location:		See Exploration Location Plan				Surface Elev.		405.2'							
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS									
Driller:		Beau Fletcher		Casing:		3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller:		Ryan Casatelli		Casing Hammer:				05/09/24		While Drilling		24.8		28.5	
Inspector:				Other:				05/09/24		Before Casing Removed		24.8		28.5	
Drill Rig:		CME 55		Soil Sampler:		2" OD Split Barrel		05/09/24		After Casing Removed		None Noted		out	
Type:		ATV		Hammer Wt:		140 lbs.		05/09/24		After Casing Removed		caved @ 3.0		out	
Rod Size:		AWJ		Hammer Fall:		30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL									
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %					
0	1	0.0	2.0	SS/12	1-1-2-3		Brown/Grey SILT, trace ORGANIC MATERIAL, trace CLAY, trace fine SAND (moist, soft)		3						
1															
2	2	2.0	4.0	SS/23	3-5-4-6		Brown SILT, little CLAY, trace ROOTS (moist, stiff)		9						
3															
4	3	4.0	6.0	SS/14	4-5-6-6		Brown SILT, trace CLAY (wet, stiff)		11						
5															
6	4	6.0	8.0	SS/22	6-8-10-12		Similar as above (wet, very stiff)		18						
7															
8	5	8.0	10.0	SS/20	9-16-15-11		Brown SILT, little fine SAND (moist, hard)		31						
9															
10															
11															
12															
13	6	13.5	13.9	SS/5	50@5"		Grey cmf GRAVEL (moist, very compact)		50+						
14															
15															
16															
17															
18	7	18.5	18.9	SS/5	50@5"		Grey SILT, little cmf GRAVEL, trace cmf SAND (moist, hard)		50+						
19															
20							Continued on Page 2								

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.	B-510
								Page No.	2 of 2
								Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20	8	23.5	23.8	SS/4	50@4"		Continued from Page 1		50+
21									
22									
23									
24							Grey SILT, little mf GRAVEL, trace cmf SAND (moist, hard)		
25	9	28.5	29.3	SS/*	41-50@4"		Grey SILT, little CLAY, trace mf GRAVEL, trace cmf SAND (moist, hard)		50+
26									
27									
28									
29							Bottom of Boring @ 29.3'		
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: * recovery length not measured

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-511							
						Page No.		1 of 2							
						Project No.		28062							
Project Name:		Micron Campus, Clay, New York				Date Started		05/08/24							
Client:		Ramboll				Date Finished		05/09/24							
Location:		See Exploration Location Plan				Surface Elev.		400.6'							
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS									
Driller:		Beau Fletcher		Casing:		3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller:		Ryan Casatelli		Casing Hammer:				05/09/24		While Drilling		None Noted		15.0	
Inspector:				Other:		NQ-Core		05/09/24		Before Casing Removed		None Noted		15.0	
Drill Rig:		CME 55		Soil Sampler:		2" OD Split Barrel		05/09/24		After Casing Removed		1.0 *		out	
Type:		ATV		Hammer Wt:		140 lbs.		05/09/24		After Casing Removed		caved @ 5.0		out	
Rod Size:		AWJ		Hammer Fall:		30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL									
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%				SPT "N" or RQD %		
		From	To												
0	1A	0.0	1.5	SS/16	WH-1-2-0		Topsoil and Organic Material (moist)						3		
1	1B	1.5	2.0				Brown/Red SILT, some cmf GRAVEL, little CLAY, little cmf SAND (moist, soft)								
2	2	2.0	4.0	SS/17	8-7-5-6		Brown SILT, little cmf GRAVEL, trace cmf SAND (wet, stiff)						12		
3															
4	3	4.0	6.0	SS/6	5-12-10-11		Brown SILT, some cmf GRAVEL, trace woody ORGANIC MATERIAL, trace cmf SAND (wet, very stiff)						22		
5															
6	4	6.0	8.0	SS/12	9-11-10-11		Brown SILT, some mf GRAVEL, little cmf SAND (moist, very stiff)						21		
7															
8	5	8.0	10.0	SS/5	10-13-12-21		Brown SILT, some cmf SAND, little cmf GRAVEL (wet, very stiff)						25		
9															
10															
11															
12															
13															
14	6	13.5	14.5	SS/12	29-50@6"		Dark Grey/Black SILT, some highly weathered ROCK Fragments (Shale) (wet, hard)						50+		
15	R-1	15.0	20.0	C/42	NQ-Core		Auger Refusal @ 15.0'. Set up to core.								
16							Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 1/4" thick), slightly to moderately weathered, thinly laminated to thinly bedded, hard.						22%		
17							SILT seam with weathered ROCK Fragments @ 15.5' - 15.6' and 18.4' - 18.2'.								
18							Broken and fractured zones @ 15.6'-16.0', 16.5'-16.6', 17.3'-17.8' and 18.1'-18.2'.								
19							Recovery: 42"/60" = 70% RQD: 13"/60" = 22%								
20							4 Pieces, 11" Chips and Fragments 30 sec - 1:00 min/ft, no water loss Continued on Page 2								

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: * Water added to boring for coring.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.		B-511	
									Page No.		2 of 2	
									Project No.		28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
20	R-2	20.0	25.0	C/57	NQ-Core		Continued from Page 1 Coring conducted in 4th gear, 1500 rpm, 600 psi down pressure. Dark Grey SHALE with interbedded DOLOSTONE (<1/8" - 2.0" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard. Broken and fractured zones @ 20.1' - 20.2', 20.6' - 20.8' and 21.1' - 21.2'. VOID with CALCITE crystals @ 21.6' - 21.7'. Recovery: 57"/60" = 95% RQD: 34"/60" = 57% 29 Pieces, 5" Chips and Fragments 40 sec - 1:30 min/ft, no water loss Coring conducted in 4th gear, 1500 rpm, 600 psi down pressure.				57%	
21												
22												
23												
24												
25												
26												
27												
28												
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31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
41												
42												
43												
44												
45												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-513																			
						Page No. 1 of 1																			
						Project No. 28062																			
Project Name: Micron Campus, Clay, New York						Date Started 05/13/24																			
Client: Ramboll						Date Finished 05/13/24																			
Location: See Exploration Location Plan						Surface Elev. 402.3'																			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																			
Driller: Gary Richards		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>05/13/24</td> <td>While Drilling</td> <td>None Noted</td> <td>9.3</td> </tr> <tr> <td>05/13/24</td> <td>Before Casing Removed</td> <td>None Noted</td> <td>9.3</td> </tr> <tr> <td>05/13/24</td> <td>After Casing Removed</td> <td>None Noted</td> <td>out</td> </tr> <tr> <td>05/13/24</td> <td>After Casing Removed</td> <td>caved @ 7.2</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	05/13/24	While Drilling	None Noted	9.3	05/13/24	Before Casing Removed	None Noted	9.3	05/13/24	After Casing Removed	None Noted	out	05/13/24	After Casing Removed	caved @ 7.2	out
Date	Time	Depth (Ft.)	Casing At (Ft.)																						
05/13/24	While Drilling	None Noted	9.3																						
05/13/24	Before Casing Removed	None Noted	9.3																						
05/13/24	After Casing Removed	None Noted	out																						
05/13/24	After Casing Removed	caved @ 7.2	out																						
Driller: Ryan Casatelli		Casing Hammer:																							
Inspector:		Other:																							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel																							
Type: ATV		Hammer Wt: 140 lbs.																							
Rod Size: AWJ		Hammer Fall: 30 in.																							
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %																
		From	To																						
0	1A	0.0	1.0	SS/18	WH-2-2-3		Topsoil and Organic Material (moist)		4																
1	1B	1.0	2.0				Brown SILT, trace fine SAND, trace CLAY (moist, medium stiff)																		
2	2	2.0	4.0	SS/19	6-6-7-9		Brown SILT, trace CLAY (wet, stiff)		13																
3																									
4	3	4.0	6.0	SS/18	5-14-11-12		Brown SILT, some mf GRAVEL, little cmf SAND (moist, very stiff)		25																
5																									
6	4	6.0	8.0	SS/19	6-14-9-12		Grey/Brown cmf GRAVEL, some SILT, trace cmf SAND (wet, medium compact)		23																
7																									
8	5	8.0	8.9	SS/9	5-50@5"		Brown/Dark Grey/Black SILT, some highly weathered ROCK Fragments (Shale) (moist, hard)		50+																
9	6	9.3	9.3	SS/0	50@0"		SHALE Fragments in tip of spoon - Split Spoon and Auger Refusal @ 9.3'																		
10							Bottom of Boring @ 9.3'																		
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-515																					
						Page No.		1 of 2																					
						Project No.		28062																					
Project Name:		Micron Campus, Clay, New York				Date Started		04/17/24																					
Client:		Ramboll				Date Finished		04/17/24																					
Location:		See Exploration Location Plan				Surface Elev.		395.4'																					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																							
Driller: Al Linstruth		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>04/17/24</td> <td>While Drilling</td> <td>16.5</td> <td>13.5</td> </tr> <tr> <td>04/17/24</td> <td>Before Casing Removed</td> <td>None Noted</td> <td>23.5</td> </tr> <tr> <td>04/17/24</td> <td>After Casing Removed</td> <td>5.2</td> <td>out</td> </tr> <tr> <td>04/17/24</td> <td>After Casing Removed</td> <td>caved @ 6.0</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	04/17/24	While Drilling	16.5	13.5	04/17/24	Before Casing Removed	None Noted	23.5	04/17/24	After Casing Removed	5.2	out	04/17/24	After Casing Removed	caved @ 6.0	out				
Date	Time	Depth (Ft.)	Casing At (Ft.)																										
04/17/24	While Drilling	16.5	13.5																										
04/17/24	Before Casing Removed	None Noted	23.5																										
04/17/24	After Casing Removed	5.2	out																										
04/17/24	After Casing Removed	caved @ 6.0	out																										
Driller: John Winks		Casing Hammer:																											
Inspector:		Other:																											
Drill Rig: CME 550X		Soil Sampler: 2" OD Split Barrel																											
Type: ATV		Hammer Wt: 140 lbs.																											
Rod Size: AWJ		Hammer Fall: 30 in.																											
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %																				
		From	To																										
0	1A	0.0	0.3	SS/17	WH-1-2-5		Topsoil and Organic Material (moist, medium stiff)		3																				
1	1B	0.3	2.0				Brown SILT, trace cmf SAND, trace fine GRAVEL (moist, soft)																						
2	2	2.0	4.0	SS/17	4-5-5-6		Brown SILT, little mf GRAVEL, trace cmf SAND (moist, stiff)		10																				
3																													
4	3	4.0	6.0	SS/14	3-7-7-5		Brown cmf GRAVEL and SILT, some cmf SAND (wet, medium compact)		14																				
5																													
6	4	6.0	8.0	SS/17	6-10-10-9		Brown SILT and cmf GRAVEL, some cmf SAND (wet, medium compact)		20																				
7																													
8	5	8.0	10.0	SS/15	7-7-8-11		Brown/Grey SILT and cmf GRAVEL, little cmf SAND (wet, very stiff)		15																				
9																													
10																													
11																													
12																													
13	6	13.5	15.0	SS/14	12-26-36		Grey SILT, trace cmf SAND, trace fine GRAVEL (moist, hard)		62																				
14																													
15																													
16																													
17																													
18	7	18.5	19.2	SS/4	36-50@2"		Grey ROCK Fragments (Shale) and ROCK Flour (moist)		50+																				
19																													
20							Continued on Page 2																						

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.	B-515
									Page No.	2 of 2
									Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	8	23.5	23.9	SS/4	50@5"		Continued from Page 1		50+	
21										
22										
23										
24							Similar as above (moist)			
25							Bottom of Boring @ 23.9'			
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-517			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/16/24			
Client: Ramboll				Date Finished		04/16/24			
Location: See Exploration Location Plan				Surface Elev.		395.2'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller: Al Linstruth		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: John Winks		Casing Hammer:		04/16/24	While Drilling	None Noted	9.2		
Inspector:		Other:		04/16/24	Before Casing Removed	None Noted	9.2		
Drill Rig: CME 550X		Soil Sampler: 2" OD Split Barrel		04/16/24	After Casing Removed	5.2	out		
Type: ATV		Hammer Wt: 140 lbs.		04/16/24	After Casing Removed	caved @ 5.5	out		
Rod Size: AWJ		Hammer Fall: 30 in.							
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.3	SS/15	1-1-2-3		Topsoil and Organic Material (moist, medium stiff)		3
1	1B	0.3	2.0				Brown SILT, little cmf GRAVEL, trace cmf SAND, trace ROOTS (moist, soft)		
2	2	2.0	4.0	SS/7	1-1-3-2		Brown SILT, little mf GRAVEL, trace cmf SAND (wet, medium stiff)		4
3									
4	3	4.0	6.0	SS/13	1-4-7-7		Brown SILT, little mf GRAVEL, trace CLAY, trace cmf SAND (wet, stiff)		11
5									
6	4	6.0	8.0	SS/16	3-5-7-8		Brown SILT and cmf GRAVEL, trace cmf SAND, trace CLAY (wet, stiff)		12
7									
8	5	8.0	8.9	SS/7	7-50@5"		Grey/Brown ROCK Fragments (Limestone) and SILT, trace cmf SAND (wet)		50+
9							Auger Refusal @ 9.2'		
10							Bottom of Boring @ 9.2'		
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-518					
				Page No.		1 of 2					
				Project No.		28062					
Project Name: Micron Campus, Clay, New York				Date Started		05/04/24					
Client: Ramboll				Date Finished		05/04/24					
Location: See Exploration Location Plan				Surface Elev.		393.4'					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: John Winks		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: Bryan Reles		Casing Hammer:		05/04/24		While Drilling		4.0		4.0	
Inspector:		Other: NQ-Core		05/04/24		Before Casing Removed		0.9 *		14.4	
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel		05/04/24		After Casing Removed		1.5 *		out	
Type: ATV		Hammer Wt: 140 lbs.		05/04/24		After Casing Removed		caved @ 10.0		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	0.8	SS/13	WH-1-2-2		Topsoil and Organic Material (moist)				3
1	1B	0.8	2.0				Brown SILT, some cmf SAND, little mf GRAVEL, trace CLAY (wet, soft)				
2	2	2.0	4.0	SS/15	3-3-4-4		Brown/Grey CLAY and cmf SAND, little mf GRAVEL, little SILT (wet, medium stiff)				7
3											
4	3	4.0	6.0	SS/19	8-14-10-7		Brown/Grey cmf SAND and mf GRAVEL, some SILT, trace CLAY (wet, medium compact)				24
5											
6	4	6.0	8.0	SS/13	7-11-12-12		Similar as above (wet, medium compact)				23
7											
8	5	8.0	10.0	SS/11	6-7-8-12		Dark Grey cmf SAND and weathered ROCK Fragments, some SILT (moist, medium compact)				15
9											
10											
11											
12											
13											
14	6	13.5	14.3	SS/9	42-50@4"		Dark Grey weathered ROCK Fragments, some SILT (moist)				50+
15	R-1	14.4	19.4	C/56	NQ-Core		Auger Refusal @ 14.4'. Set up to core.				
16							Dark Grey SHALE with interbedded DOLOSTONE layers (<1/8" - 1.0" thick), slightly to moderately weathered, thinly laminated, medium hard.				38%
17							Broken and fractured zone @ 14.6' - 15.6'.				
18							Weathered horizontal fractures @ 16.5', 18.0', 18.2' and 18.8'.				
19							Recovery: 56"/60" = 93% RQD: 23"/60" = 38%				
20							20 Pieces, 2" Chips and Fragments				
							1:00 - 2:00 min/ft, no water loss				
							Coring conducted in 4th gear, 1500 rpm, 650 psi down pressure.				
	R-2	19.4	24.4	C/58	NQ-Core		Dark Grey SHALE with interbedded DOLOSTONE layers (<1/8" - 2.0" thick), slightly to moderately weathered, thinly laminated to				53%
							Continued on Page 2				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: * Water added to boring for coring.

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.		B-518	
									Page No.		2 of 2	
									Project No.		28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) FromTo		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
20							Continued from Page 1 medium bedded, medium hard to hard. <i>Broken and fractured zone @ 19.7'-19.8' and 21.9'-22.2'.</i> <i>Weathered horizontal fracture @ 20.2'.</i> Recovery: 58"/60" = 97% RQD: 32"/60" = 53% 16 Pieces, 4" Chips and Fragments 40 seconds - 1:00 min/ft, no water loss <i>Coring conducted in 4th gear, 1500 rpm, 650 psi down pressure.</i> Bottom of Boring @ 24.4'					
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												
33												
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36												
37												
38												
39												
40												
41												
42												
43												
44												
45												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 CME Associates, Inc.		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.	B-519
								Page No.	1 of 1
								Project No.	28062
Project Name:	Micron Campus, Clay, New York							Date Started	05/10/24
Client:	Ramboll							Date Finished	05/10/24
Location:	See Exploration Location Plan							Surface Elev.	394.9'
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller:	H. Lyon	Casing:	3 ¼" ID H.S.A.			Date	Time	Depth (Ft.)	Casing At (Ft.)
Driller:	K. Crandall	Casing Hammer:				05/10/24	While Drilling	None Noted	8.0
Inspector:	C. O'Hara	Other:				05/10/24	Before Casing Removed	None Noted	18.0
Drill Rig:	CME 45	Soil Sampler:	2" OD Split Barrel			05/10/24	After Casing Removed	None Noted	out
Type:	ATV	Hammer Wt:	140 lbs.			05/10/24	After Casing Removed	None Noted	out
Rod Size:	AWJ	Hammer Fall:	30 in.			05/10/24	After Casing Removed	caved @	out
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.7	SS/17	1-WH-1-7		Topsoil and Organic Material (moist)		1
1	1B	0.7	2.0				Brown SILT, trace CLAY, trace fine SAND, trace ORGANIC MATERIAL (moist, soft)		
2	2	2.0	4.0	SS/18	4-6-5-3		Brown/Grey SILT, trace CLAY, trace fine SAND (wet, stiff)		11
3									
4	3	4.0	6.0	SS/16	5-6-11-11		Brown SILT, trace CLAY (wet, very stiff)		17
5									
6	4	6.0	8.0	SS/15	5-6-6-9		Brown SILT, trace fine GRAVEL, trace cmf SAND, trace CLAY (wet, stiff)		12
7									
8	5	8.0	10.0	SS/14	3-17-17-17		Red/Brown SILT, some cmf GRAVEL, little cmf SAND, trace CLAY (moist, hard) <i>Augers like Cobble beginning @ 8.7'</i>		34
9									
10									
11									
12									
13	6	13.0	15.0	SS/16	18-10-22-25		Grey SILT, little mf GRAVEL, trace cmf SAND (moist, hard)		32
14									
15									
16	7	16.5	17.4	SS/11	38-50@5"		<i>Augers very hard beginning @ 16.2'</i> Grey SILT and cmf GRAVEL, little cmf SAND (moist, hard)		50+
17									
18	8	18.0	18.9	SS/11	50-50@5"		Grey SILT, little mf GRAVEL, trace cmf SAND (moist, hard)		50+
19									
20							Bottom of Boring @ 18.9'		

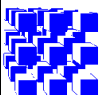
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-520																			
						Page No. 1 of 2																			
						Project No. 28062																			
Project Name: Micron Campus, Clay, New York						Date Started 05/08/24																			
Client: Ramboll						Date Finished 05/08/24																			
Location: See Exploration Location Plan						Surface Elev. 395.7'																			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																			
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>05/08/24</td> <td>While Drilling</td> <td>14.3</td> <td>28.5</td> </tr> <tr> <td>05/08/24</td> <td>Before Casing Removed</td> <td>None Noted</td> <td>39.1</td> </tr> <tr> <td>05/08/24</td> <td>After Casing Removed</td> <td>2.5 *</td> <td>out</td> </tr> <tr> <td>05/08/24</td> <td>After Casing Removed</td> <td>caved @ 3.5</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	05/08/24	While Drilling	14.3	28.5	05/08/24	Before Casing Removed	None Noted	39.1	05/08/24	After Casing Removed	2.5 *	out	05/08/24	After Casing Removed	caved @ 3.5	out
Date	Time	Depth (Ft.)	Casing At (Ft.)																						
05/08/24	While Drilling	14.3	28.5																						
05/08/24	Before Casing Removed	None Noted	39.1																						
05/08/24	After Casing Removed	2.5 *	out																						
05/08/24	After Casing Removed	caved @ 3.5	out																						
Driller: Ryan Casatelli		Casing Hammer:																							
Inspector:		Other: NQ-Core																							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel																							
Type: ATV		Hammer Wt: 140 lbs.																							
Rod Size: AWJ		Hammer Fall: 30 in.																							
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %																
		From	To																						
0	1A	0.0	1.0	SS/18	1-WH-4-6		Topsoil and Organic Material (moist)		4																
1	1B	1.0	2.0				-----																		
2	2	2.0	4.0	SS/17	6-8-8-6		Brown SILT, trace fine SAND, trace CLAY (wet, very stiff)		16																
3																									
4	3	4.0	6.0	SS/10	4-4-6-7		Brown/Grey CLAY, little SILT, trace mf GRAVEL, trace cmf SAND (wet, stiff)		10																
5																									
6	4	6.0	8.0	SS/19	7-9-11-12		Grey/Brown SILT, some cmf GRAVEL, trace cmf SAND (wet, very stiff)		20																
7																									
8	5	8.0	10.0	SS/19	6-8-11-11		Grey/Brown SILT, trace CLAY (wet, very stiff)		19																
9																									
10																									
11																									
12																									
13																									
14	6	13.5	15.0	SS/20	8-8-9		Brown/Orange/Grey SILT, little CLAY, trace cmf SAND (moist, very stiff)		17																
15																									
16																									
17																									
18																									
19	7	18.5	20.0	SS/16	6-11-15		Grey SILT, little cmf SAND, trace fine GRAVEL (moist, very stiff)		26																
20							Continued on Page 2																		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: * Water added to boring for coring.

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No. B-520	Page No. 2 of 2
						Project No. 28062				
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	8	23.5	24.7	SS/14	23-28-50@3"		Continued from Page 1		50+	
21							Augers harder beginning @ 20.0'			
22										
23										
24							Grey highly weathered ROCK Fragments (Shale), little SILT (moist)			
25	9	28.5	29.1	SS/6	30-50@1"		Similar as above (moist)		50+	
26										
27										
28										
29							Split Spoon and Auger Refusal @ 29.1'. Set up to core.			
30	R-1	29.1	34.1	C/60	NQ-Core		Dark Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 1" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard.		40%	
31							SILT seam (1/4" thick) @ 29.3'.			
32							Recovery: 60"/60" = 100% RQD: 24"/60" = 40%			
33							25 Pieces, 0" Chips and Fragments			
34							1:30 min/ft, no water loss			
35	R-2	34.1	39.1	C/58	NQ-Core		Coring conducted in 4th gear, 1500 rpm, 500 psi down pressure.		53%	
36							Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 2.0" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard.			
37							Broken and fractured zone @ 25.7' - 26.4'.			
38							SILT seam with weathered ROCK Fragments @ 36.5' - 36.7'.			
39							Weathered zones @ 37.3' and 37.8'.			
40							Recovery: 58"/60" = 97% RQD: 32"/60" = 53%			
41							17 Pieces, 8" Chips and Fragments			
42							1:30 min/ft, no water loss			
43							Coring conducted in 4th gear, 1500 rpm, 500 psi down pressure.			
44							Bottom of Boring @ 39.1'			
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-522A	
						Page No.		1 of 1	
						Project No.		28062	
Project Name:		Micron Campus, Clay, New York				Date Started		04/17/24	
Client:		Ramboll				Date Finished		04/17/24	
Location:		See Exploration Location Plan				Surface Elev.		393.7'	
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller:		Al Linstruth		Casing:		3 ¼" ID H.S.A.		Date	
Driller:		John Winks		Casing Hammer:				Time	
Inspector:				Other:				Depth (Ft.)	
Drill Rig:		CME 550X		Soil Sampler:		2" OD Split Barrel		Casing At (Ft.)	
Type:		ATV		Hammer Wt:		140 lbs.		04/17/24 While Drilling 4.2 6.0	
Rod Size:		AWJ		Hammer Fall:		30 in.		04/17/24 Before Casing Removed 4.2 6.0	
								04/17/24 After Casing Removed 4.2 out	
								04/17/24 After Casing Removed caved @ 5.7 out	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.3	SS/14	1-2-5-7		Topsoil and Organic Material (moist)		7
1	1B	0.3	2.0				Brown SILT, some cmf GRAVEL, trace cmf SAND, trace ROOTS (moist, medium stiff)		
2	2	2.0	4.0	SS/19	3-3-9-3		Brown SILT, some cmf GRAVEL, trace cmf SAND (wet, stiff)		12
3									
4	3	4.0	6.0	SS/17	5-5-5-5		Brown cmf GRAVEL and SILT, some cmf SAND (wet, medium compact)		10
5									
6	4	6.0	7.0	SS/9	3-6-50@0"		Grey/Brown SILT, little mf GRAVEL, little cmf SAND, trace CLAY (wet, hard)		50+
7							Split Spoon and Auger Refusal @ 7.0'		
8							Bottom of Boring @ 7.0'		
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 CME Associates, Inc.		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.	B-523
								Page No.	1 of 1
								Project No.	28062
Project Name:	Micron Campus, Clay, New York						Date Started	04/16/24	
Client:	Ramboll						Date Finished	04/16/24	
Location:	See Exploration Location Plan						Surface Elev.	393.5'	
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller:	Al Linstruth	Casing:	3 ¼" ID H.S.A.			Date	Time	Depth (Ft.)	Casing At (Ft.)
Driller:	John Winks	Casing Hammer:							
Inspector:		Other:	NQ-Core			04/16/24	While Drilling	7.0	7.2
Drill Rig:	CME 550X	Soil Sampler:	2" OD Split Barrel			04/16/24	Before Casing Removed	3.0 *	7.2
Type:	ATV	Hammer Wt:	140 lbs.			04/16/24	After Casing Removed	2.0 *	out
Rod Size:	AWJ	Hammer Fall:	30 in.			04/16/24	After Casing Removed	caved @ 4.2	out
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.3	SS/9	2-3-4-7		Topsoil and Organic Material (moist)		7
1	1B	0.3	2.0				Dark Brown SILT, little mf GRAVEL, trace cmf SAND, trace ROOTS (moist, medium stiff)		
2	2	2.0	4.0	SS/5	4-3-3-2		Brown SILT, trace mf GRAVEL, trace cmf SAND (moist, medium stiff)		6
3									
4	3	4.0	6.0	SS/3	2-2-6-5		Black/Grey cmf GRAVEL (moist, loose)		8
5									
6	4	6.0	6.9	SS/5	7-50@5"		Black/Grey ROCK Fragments (Limestone), trace SILT (wet)		50+
7									
8	R-1	7.2	12.2	C/59	NQ-Core	7.2	Auger Refusal @ 7.2' - Set up to core		
9							Grey DOLOSTONE with interbedded SHALE (<1/8" -4.0" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard. Weathered horizontal fractures @ 9.0', 9.5' and 10.8'. Recovery: 59"/60" = 98% RQD: 58"/60" = 97% 32 Pieces, 0" Chips and Fragments 55 sec/ft, no water loss		97%
10									
11									
12	R-2	12.2	17.2	C/56	NQ-Core		Coring conducted in 5th gear, 2000 rpm, 700 psi down pressure. Dark Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 4.0" thick), slightly weathered, thinly laminated to medium bedded, medium hard to hard. Weathered zone (1/2" thick) @ 13.9'. Recovery: 56"/60" = 93% RQD: 50"/60" = 83% 22 Pieces, 1" Chips and Fragments 55 sec/ft, no water loss Coring conducted in 5th gear, 2000 rpm, 700 psi down pressure.		83%
13									
14									
15									
16									
17							Bottom of Boring @ 17.2'		
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: *Water added to boring for coring.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-526																					
						Page No. 1 of 2																					
						Project No. 28062																					
Project Name: Micron Campus, Clay, New York						Date Started 04/17/24																					
Client: Ramboll						Date Finished 04/17/24																					
Location: See Exploration Location Plan						Surface Elev. 396.9'																					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																					
Driller: Al Linstruth		Casing: 3 ¾" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>04/17/24</td> <td>While Drilling</td> <td>12.7</td> <td>13.5</td> </tr> <tr> <td>04/17/24</td> <td>Before Casing Removed</td> <td>7.2 *</td> <td>13.5</td> </tr> <tr> <td>04/17/24</td> <td>After Casing Removed</td> <td>6.8 *</td> <td>out</td> </tr> <tr> <td>04/17/24</td> <td>After Casing Removed</td> <td>caved @ 10.0</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	04/17/24	While Drilling	12.7	13.5	04/17/24	Before Casing Removed	7.2 *	13.5	04/17/24	After Casing Removed	6.8 *	out	04/17/24	After Casing Removed	caved @ 10.0	out		
Date	Time	Depth (Ft.)	Casing At (Ft.)																								
04/17/24	While Drilling	12.7	13.5																								
04/17/24	Before Casing Removed	7.2 *	13.5																								
04/17/24	After Casing Removed	6.8 *	out																								
04/17/24	After Casing Removed	caved @ 10.0	out																								
Driller: John Winks		Casing Hammer:																									
Inspector:		Other: NQ-Core																									
Drill Rig: CME 550X		Soil Sampler: 2" OD Split Barrel																									
Type: ATV		Hammer Wt: 140 lbs.																									
Rod Size: AWJ		Hammer Fall: 30 in.																									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %																	
		From	To																								
0	1A	0.0	0.2	SS/15	2-2-2-2		Topsoil and Organic Material (moist)			4																	
1	1B	0.2	2.0				Brown SILT, trace fine SAND, trace ROOTS (moist, medium stiff)																				
2	2	2.0	4.0	SS/17	2-8-8-8		Brown SILT, trace CLAY, trace fine SAND (wet, very stiff)			16																	
3																											
4	3	4.0	6.0	SS/10	7-6-7-6		Brown SILT, trace CLAY (wet, stiff)			13																	
5																											
6	4	6.0	8.0	SS/15	3-2-1-2		Brown SILT, trace CLAY (wet, soft)			3																	
7																											
8	5	8.0	10.0	SS/14	4-20-9-16		Brown/Black SILT and ROCK Fragments (Shale), little cmf SAND, trace fine GRAVEL (wet, very stiff)			29																	
9																											
10																											
11																											
12																											
13																											
14	6	13.5	13.5	SS/0	50@0"		No Recovery. Spoon Refusal - Set up to core																				
15	R-1	13.5	18.5	C/57	NQ-Core		Dark Grey SHALE with interbedded DOLOSTONE layers (<1/8" - 2.0" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard. Broken and fractured zone @ 13.7' - 14.0'. Weathered horizontal fractures @ 14.4', 15.3' and 15.7'. Recovery: 57"/60" = 95% RQD: 44"/60" = 73% 27 Pieces, 4" Chips and Fragments 50 sec/ft, no water loss			73%																	
16																											
17																											
18	R-2	18.5	23.5	C/59	NQ-Core		Coring conducted in 5th gear, 2100 rpm, 700 psi down pressure. Dark Grey SHALE with interbedded DOLOSTONE layers (<1/8" - 1/4" thick), slightly weathered, thinly laminated, medium bedded, medium hard. Broken and fractured zones @ 19.8', 20.7' - 20.8', Continued on Page 2			85%																	
19																											
20																											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: * Water added to boring for coring.

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.	B-526
								Page No.	2 of 2
								Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) FromTo		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20							Continued from Page 1 and 22.4' - 22.5'. Recovery: 59"/60" = 98% RQD: 51"/60" = 85% 21 Pieces, 5" Chips and Fragments 50 sec/ft, no water loss Coring conducted in 5th gear, 2100 rpm, 700 psi down pressure.		
21							Bottom of Boring @ 23.5'		
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-529			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/16/24			
Client: Ramboll				Date Finished		04/16/24			
Location: See Exploration Location Plan				Surface Elev.		395.6'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Al Linstruth		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: John Winks		Casing Hammer:							
Inspector:		Other:							
Drill Rig: CME 550X		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/16/24	While Drilling	7.4	6.0		
				04/16/24	Before Casing Removed	11.8	14.8		
				04/16/24	After Casing Removed	5.9	out		
				04/16/24	After Casing Removed	caved @ 7.2	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.3	SS/13	1-1-1-2		Topsoil and Organic Material (moist)		2
1	1B	0.3	2.0				Brown SILT, trace fine SAND, trace ROOTS (moist, soft)		
2	2	2.0	4.0	SS/11	1-3-2-1		Brown SILT, trace fine SAND (wet, medium stiff)		5
3									
4	3A	4.0	5.5	SS/12	4-3-2-11		Dark Grey/Brown cmf GRAVEL, some SILT, little cmf SAND (wet, loose)		5
5									
6	3B	5.5	6.0				Grey cmf GRAVEL, little cmf SAND, trace SILT (moist)		
7	4	6.0	8.0	SS/13	8-11-7-5		Grey/Brown SILT, some cmf GRAVEL, little cmf SAND (wet, very stiff)		18
8	5	8.0	10.0	SS/8	11-7-10-4		Grey SILT and cmf GRAVEL, some cmf SAND (wet, medium compact)		17
9							Augers gravelly beginning @ 8.0'		
10									
11									
12	6	12.5	12.7	SS/3	50@3"		Grey ROCK Fragments (Dolostone) and ROCK Flour (moist)		50+
13									
14	7	14.8	14.8	SS/0	50@0"		Spoon and Auger Refusal @ 14.8'		50+
15							Bottom of Boring @ 14.8'		
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-530					
				Page No.		1 of 1					
				Project No.		28062					
Project Name: Micron Campus, Clay, New York				Date Started		05/10/24					
Client: Ramboll				Date Finished		05/10/24					
Location: See Exploration Location Plan				Surface Elev.		391.4'					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: K. Crandall		Casing Hammer:		05/10/24		While Drilling		9.3		12.8	
Inspector: C. O'Hara		Other:		05/10/24		Before Casing Removed		7.4		17.6	
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel		05/10/24		After Casing Removed		4.3		out	
Type: ATV		Hammer Wt: 140 lbs.		05/10/24		After Casing Removed		caved @ 6.7		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	0.7	SS/12	WH-1-1-5		Topsoil and Organic Material (moist)				2
1	1B	0.7	2.0				Brown SILT, trace CLAY, trace ROOTS (moist, soft)				
2	2	2.0	4.0	SS/15	5-5-5-5		Brown/Grey mottled SILT, trace CLAY (wet, stiff)				10
3											
4	3	4.0	6.0	SS/14	12-14-12-7		Brown SILT, trace CLAY (moist, very stiff)				26
5											
6	4	6.0	8.0	SS/12	3-5-7-14		Grey SILT, some CLAY, little cmf GRAVEL, trace cmf SAND (moist, stiff)				12
7											
8	5	8.0	10.0	SS/13	10-10-20-50		Grey SILT, little CLAY, trace cmf SAND, trace fine GRAVEL (moist, hard)				30
9											
10											
11											
12											
13	6	12.8	14.8	SS/*	25-12-15-18		<i>Augers hard @ 12.6'</i> Grey/Black SILT, some highly weathered ROCK Fragments (Shale), trace CLAY (moist, very stiff)				27
14											
15							<i>Augers very hard beginning @ 15.3' to 16.3'</i>				
16	7	16.3	16.7	SS/4	50@4"		Grey weathered ROCK Fragments (Shale) and ROCK Flour (moist)				50+
17											
18	8	17.6	17.8	SS/1	50@2"		Black SHALE Fragments (moist) <i>Auger Refusal @ 17.6'</i>				50+
19							Bottom of Boring @ 17.8'				
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: * recovery length not measured

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-532			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/04/24			
Client: Ramboll				Date Finished		05/04/24			
Location: See Exploration Location Plan				Surface Elev.		396.5'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: John Winks		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Bryan Reles		Casing Hammer:							
Inspector:		Other: NQ-Core							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/04/24	While Drilling	11.5	13.5		
				05/04/24	Before Casing Removed	5.8 *	24.0		
				05/04/24	After Casing Removed	5	out		
				05/04/24	After Casing Removed	caved @ 5.5	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.8	SS/22	WH-2-2-5		Topsoil and Organic Material (moist)		4
1	1B	0.8	2.0				Brown SILT, trace fine SAND, trace ROOTS (moist, medium stiff)		
2	2	2.0	4.0	SS/18	4-5-7-6		Brown SILT, little fine SAND, trace ROOTS (wet, stiff)		12
3									
4	3	4.0	6.0	SS/19	3-4-5-7		Brown SILT, trace CLAY, trace fine SAND (wet, stiff)		9
5									
6	4	6.0	8.0	SS/17	4-3-3-5		Brown SILT, some cmf SAND, little CLAY (wet, medium stiff)		6
7									
8	5	8.0	10.0	SS/15	7-7-6-7		Brown cmf SAND, some mf GRAVEL, little SILT (wet, medium compact)		13
9									
10									
11									
12									
13	6	13.5	15.0	SS/13	18-27-18		Dark Grey weathered ROCK Fragments, some SILT (wet)		45
14									
15									
16									
17									
18	7	18.5	20.0	SS/14	13-22-26		Dark Grey weathered ROCK Fragments, little SILT (moist)		48
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.	B-532
								Page No.	2 of 2
								Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20							Continued from Page 1		
21									
22									
23									
24	8	23.5	23.8	SS/4	50@4"		Dark Grey ROCK Fragments (Shale), trace ROCK Flour (moist)		50+
	R-1	24.0	29.0	C/55	NQ-Core		<i>Auger Refusal @ 24.0'. Set up to core.</i>		
25							Dark Grey SHALE with interbedded DOLOSTONE layers (<1/8" - 2.0" thick), moderately weathered, thinly laminated to medium bedded, medium hard.		68%
26							<i>Broken and fractured zone @ 24.0'-24.9'.</i>		
27							<i>Weathered horizontal fracture @ 26.9'.</i>		
28							<i>SILT seam (~1/4" thick) @ 27.4'.</i>		
29							Recovery: 55"/60" = 92% RQD: 41"/60" = 68%		
	R-2	29.0	34.0	C/59	NQ-Core		14 Pieces, 4" Chips and Fragments		
30							<i>1:00 - 2:00 min/ft, no water loss</i>		
31							<i>Coring conducted in 4th gear, 1500 rpm, 650 psi down pressure.</i>		
32							Dark Grey SHALE with interbedded DOLOSTONE layers (<1/8" - 4.0" thick), slightly weathered, laminated to medium bedded, medium hard to hard.		90%
33							<i>Weathered horizontal fractures @ 31.4', 33.3' and 33.4'.</i>		
34							Recovery: 59"/60" = 98% RQD: 54"/60" = 90%		
35							20 Pieces, 1" Chips and Fragments		
36							<i>1:25 - 1:50 min/ft, no water loss</i>		
37							<i>Coring conducted in 4th gear, 1500 rpm, 650 psi down pressure.</i>		
38									
39									
40							Bottom of Boring @ 34.0'		
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: * Water added to boring for coring.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-534					
				Page No.		1 of 2					
				Project No.		28062					
Project Name: Micron Campus, Clay, New York				Date Started		04/25/24					
Client: Ramboll				Date Finished		04/25/24					
Location: See Exploration Location Plan				Surface Elev.		390.4'					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: K. Crandall		Casing Hammer:		04/25/24		While Drilling		2.5		15.0	
Inspector: C. O'Hara		Other:		04/25/24		Before Casing Removed		5.5		20.8	
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel		04/25/24		After Casing Removed		5.7		out	
Type: ATV		Hammer Wt: 140 lbs.		04/25/24		After Casing Removed		caved @ 10.2		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	0.3	SS/12	1-2-1-1		Topsoil and Organic Material (moist)		3		
1	1B	0.3	2.0				Brown SILT, trace CLAY, trace fine SAND, trace ORGANIC MATERIAL (moist, soft)				
2	2	2.0	4.0	SS/13	2-3-3-3		Brown/Grey mottled SILT, little CLAY (wet, medium stiff)		6		
3											
4	3	4.0	6.0	SS/15	3-3-4-4		Brown SILT, trace CLAY (wet, medium stiff)		7		
5											
6	4	6.0	8.0	SS/20	3-5-7-6		Similar as above (wet, stiff)		12		
7											
8	5	8.0	10.0	SS/21	4-5-5-7		Similar as above (wet, stiff)		10		
9											
10											
11											
12											
13	6	13.0	15.0	SS/16	1-2-1-1		Grey/Brown SILT, some CLAY, trace cmf SAND, trace fine GRAVEL (wet, soft)		3		
14											
15	7	15.0	17.0	SS/8	WR-6-11-4		Grey/Brown SILT, little cmf SAND, little mf GRAVEL, trace CLAY (wet, very stiff) <i>Augers gravelly beginning @ 15.7'</i>		17		
16											
17											
18	8	18.0	18.3	SS/3	50@3"		Dark Grey/Black cmf GRAVEL, little cmf SAND, little SILT, trace CLAY (wet, very compact)		50+		
19											
20							Continued on Page 2				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION		Boring No.		B-534	
						TEST BORING LOG		Page No.		2 of 2	
								Project No.		28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
20	9	20.8	21.6	SS/6	8-50@4"		Continued from Page 1				50+
Auger Refusal @ 20.8'											
21							Black weathered ROCK Fragments (Shale), some SILT (wet)				
22							Bottom of Boring @ 21.6'				
23											
24											
25											
26											
27											
28											
29											
30											
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44											
45											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-535																					
						Page No.		1 of 1																					
						Project No.		28062																					
Project Name: Micron Campus, Clay, New York						Date Started		04/25/24																					
Client: Ramboll						Date Finished		04/26/24																					
Location: See Exploration Location Plan						Surface Elev.		390.3'																					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																							
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>04/25/24</td> <td>While Drilling</td> <td>None Noted</td> <td>6.0</td> </tr> <tr> <td>04/25/24</td> <td>Before Casing Removed</td> <td>7.0</td> <td>16.8</td> </tr> <tr> <td>04/26/24</td> <td>After Casing Removed</td> <td>2.0</td> <td>8.0</td> </tr> <tr> <td>04/26/24</td> <td>After Casing Removed</td> <td>caved @ 6.1</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	04/25/24	While Drilling	None Noted	6.0	04/25/24	Before Casing Removed	7.0	16.8	04/26/24	After Casing Removed	2.0	8.0	04/26/24	After Casing Removed	caved @ 6.1	out				
Date	Time	Depth (Ft.)	Casing At (Ft.)																										
04/25/24	While Drilling	None Noted	6.0																										
04/25/24	Before Casing Removed	7.0	16.8																										
04/26/24	After Casing Removed	2.0	8.0																										
04/26/24	After Casing Removed	caved @ 6.1	out																										
Driller: K. Crandall		Casing Hammer:																											
Inspector: C. O'Hara		Other:																											
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel																											
Type: ATV		Hammer Wt: 140 lbs.																											
Rod Size: AWJ		Hammer Fall: 30 in.																											
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %																				
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%																						
0	1A	0.0	0.8	SS/13	WH-1-1-3		Topsoil and Organic Material (moist)		2																				
1	1B	0.8	2.0				Brown/Grey mottled SILT, trace CLAY (moist, soft)																						
2	2	2.0	4.0	SS/16	4-4-4-4		Similar as above (moist, medium stiff)		8																				
3																													
4	3	4.0	6.0	SS/12	4-4-7-9		Brown SILT, trace CLAY (moist, stiff)		11																				
5																													
6	4	6.0	8.0	SS/14	7-7-6-6		Similar as above (moist, stiff)		13																				
7																													
8	5	8.0	10.0	SS/17	4-4-6-5		Brown SILT, trace CLAY, trace mf SAND (wet, stiff)		10																				
9																													
10																													
11																													
12																													
13	6	13.0	15.0	SS/12	WR-4-4-15		<i>Augers gravelly beginning @ 12.8'</i> Grey mf GRAVEL, little SILT (wet, loose)		8																				
14																													
15																													
16	7	16.8	17.1	SS/1	50@3"		<i>Augers like Rock beginning @ 16.2'</i> Black ROCK Fragments (Shale) (wet) <i>Auger Refusal @ 16.8'</i>		50+																				
17							Bottom of Boring @ 17.1'																						
18																													
19																													
20																													

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-536																					
						Page No.		1 of 2																					
						Project No.		28062																					
Project Name: Micron Campus, Clay, New York						Date Started		04/26/24																					
Client: Ramboll						Date Finished		04/26/24																					
Location: See Exploration Location Plan						Surface Elev.		387.2'																					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																							
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>04/26/24</td> <td>While Drilling</td> <td>7.5</td> <td>13.5</td> </tr> <tr> <td>04/26/24</td> <td>Before Casing Removed</td> <td>None Noted</td> <td>26.0</td> </tr> <tr> <td>04/26/24</td> <td>After Casing Removed</td> <td>2.5 *</td> <td>out</td> </tr> <tr> <td>04/26/24</td> <td>After Casing Removed</td> <td>caved @ 7.6</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	04/26/24	While Drilling	7.5	13.5	04/26/24	Before Casing Removed	None Noted	26.0	04/26/24	After Casing Removed	2.5 *	out	04/26/24	After Casing Removed	caved @ 7.6	out				
Date	Time	Depth (Ft.)	Casing At (Ft.)																										
04/26/24	While Drilling	7.5	13.5																										
04/26/24	Before Casing Removed	None Noted	26.0																										
04/26/24	After Casing Removed	2.5 *	out																										
04/26/24	After Casing Removed	caved @ 7.6	out																										
Driller: Ryan Casatelli		Casing Hammer:																											
Inspector:		Other: NQ-Core																											
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel																											
Type: ATV		Hammer Wt: 140 lbs.																											
Rod Size: AWJ		Hammer Fall: 30 in.																											
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %																				
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%																						
0	1A	0.0	0.5	SS/18	WH-1-2-4		Topsoil and Organic Material (moist)		3																				
1	1B	0.5	2.0				Brown/Grey mottled SILT, trace CLAY (moist, soft)																						
2	2	2.0	4.0	SS/16	8-8-7-11		Brown SILT, trace fine SAND, trace CLAY (wet, very stiff)		15																				
3																													
4	3	4.0	6.0	SS/22	2-4-3-3		Brown/Grey SILT, trace CLAY (wet, medium stiff)		7																				
5																													
6	4	6.0	8.0	SS/16	2-2-3-2		Brown SILT, little CLAY (wet, medium stiff)		5																				
7																													
8	5A	8.0	9.0	SS/16	2-4-11-6		Grey/Brown CLAY, some mf GRAVEL, little SILT, trace cmf SAND (wet, very stiff)		15																				
9	5B	9.0	10.0				Black highly weathered ROCK Fragments (Shale) (wet)																						
10									50+																				
11																													
12																													
13																													
14	6	13.5	13.6	SS/1	50@1"		Similar as above (wet)																						
15									70%																				
16	R-1	16.0	21.0	C/55	NQ-Core		Auger Refusal @ 16.0'. Set up to core.																						
17							Grey DOLOSTONE with interbedded SHALE layers (<1/8' - 2" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard.																						
18							Broken and fractured zone @ 16.0' - 17.2'. Recovery: 55"/60" = 92% RQD: 42"/60" = 70%																						
19							15 Pieces, 14" Chips and Fragments 1:00 - 2:00 min/ft, no water loss Coring conducted in 4th gear, 1500 rpm, 700 psi down pressure.																						
20							Continued on Page 2																						

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: * Water added to boring for coring.

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.		B-536	
									Page No.		2 of 2	
									Project No.		28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) FromTo		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %		
20	R-2	21.0	26.0	C/57	NQ-Core		Continued from Page 1				53%	
21							Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 1" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard. <i>Weathered zone @ 24.4' - 24.6'.</i> Recovery: 57"/60" = 95% RQD: 32"/60" = 53% 21 Pieces, 2" Chips and Fragments 1:00 min/ft, no water loss Coring conducted in 4th gear, 1500 rpm, 700 psi down pressure.					
22												
23												
24												
25												
26							Bottom of Boring @ 26.0'					
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
41												
42												
43												
44												
45												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-537					
				Page No.		1 of 2					
				Project No.		28062					
Project Name: Micron Campus, Clay, New York				Date Started		04/25/24					
Client: Ramboll				Date Finished		04/25/24					
Location: See Exploration Location Plan				Surface Elev.		392.5'					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: K. Crandall		Casing Hammer:		04/25/24		While Drilling		9.0		13.0	
Inspector: C. O'Hara		Other:		04/25/24		Before Casing Removed		7.8		22.0	
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel		04/25/24		After Casing Removed		3.5		out	
Type: ATV		Hammer Wt: 140 lbs.		04/25/24		After Casing Removed		caved @ 8.6		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	0.5	SS/17	1-WH-2-2		Topsoil and Organic Material (moist)				2
1	1B	0.5	2.0				Brown SILT, little CLAY, trace ROOTS (moist, soft)				
2	2	2.0	4.0	SS/16	2-4-4-5		Brown/Grey mottled SILT, little CLAY (moist, stiff)				8
3											
4	3	4.0	6.0	SS/14	2-2-2-3		Brown SILT, trace CLAY (moist, medium stiff)				4
5											
6	4	6.0	8.0	SS/13	4-4-5-5		Similar as above (wet, stiff)				9
7											
8	5	8.0	10.0	SS/15	4-5-6-6		Similar as above (wet, stiff)				11
9											
10											
11											
12											
13	6	13.0	15.0	SS/14	1-2-1-4		Grey/Brown SILT, little CLAY (wet, soft)				3
14											
15	7	15.0	17.0	SS/15	1-2-1-WH		Grey SILT, some CLAY, little cmf SAND, little mf GRAVEL (wet, soft)				3
16											
17	8	17.0	19.0	SS/14	WR-4-7-10		Grey SILT, some CLAY, trace cmf SAND, trace fine GRAVEL (wet, stiff)				11
18											
19	9	19.0	21.0	SS/7	6-9-9-26		Augered like Cobble @ 18.5' Black highly weathered ROCK Fragments (Shale), some SILT (wet)				18
20							Continued on Page 2				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.	B-537
									Page No.	2 of 2
									Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
20	10	22.0	22.0	SS/0	50@0"		Continued from Page 1			
21										
22						Black ROCK Fragments (Dolostone) in tip of Split Spoon. Auger Refusal @ 22.0'			50+	
23						Bottom of Boring @ 22.0'				
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-538			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/24/24			
Client: Ramboll				Date Finished		04/24/24			
Location: See Exploration Location Plan				Surface Elev.		388.1'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:		04/24/24	While Drilling	3.0	10.0		
Inspector: C. O'Hara		Other:		04/24/24	Before Casing Removed	8.5	17.3		
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel		04/24/24	After Casing Removed	3.5	out		
Type: ATV		Hammer Wt: 140 lbs.		04/24/24	After Casing Removed	caved @ 9.5	out		
Rod Size: AWJ		Hammer Fall: 30 in.							
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.7	SS/12	WH-1-2-5		Topsoil and Organic Material (moist)		3
1	1B	0.7	2.0				Brown/Grey mottled SILT, little CLAY, trace ROOTS (moist, soft)		
2	2	2.0	4.0	SS/14	3-5-7-8		Brown/Grey mottled SILT, trace CLAY (moist, stiff)		12
3									
4	3	4.0	6.0	SS/15	4-5-5-5		Brown SILT, trace CLAY, trace fine SAND (moist, stiff)		10
5									
6	4	6.0	8.0	SS/16	4-5-9-9		Brown SILT, trace CLAY (moist, stiff)		14
7									
8	5	8.0	10.0	SS/13	2-2-2-3		Grey SILT, little CLAY (wet, medium stiff)		4
9									
10	6	10.0	12.0	SS/14	2-2-2-2		Grey SILT, trace CLAY (wet, medium stiff)		4
11									
12	7	12.0	14.0	SS/*	WH-1-WR-1		Grey SILT, little CLAY, trace fine SAND (wet, very soft)		1
13									
14	8	14.0	16.0		3-6-8-40		Dark Grey/Black highly weathered ROCK Fragments (Shale) and SILT (wet)		14
15									
16							Augers harder @ 16.3'		
17	9	17.3	17.5	SS/0	50@3"		Augers very hard @ 16.6'		
18							Black ROCK Fragments in tip of Split Spoon. Split Spoon and Auger Refusal @ 17.3'		50+
19							Bottom of Boring @ 17.3'		
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: * recovery length not measured

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-539					
				Page No.		1 of 1					
				Project No.		28062					
Project Name: Micron Campus, Clay, New York				Date Started		04/25/24					
Client: Ramboll				Date Finished		04/25/24					
Location: See Exploration Location Plan				Surface Elev.		387.5'					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: K. Crandall		Casing Hammer:		04/25/24		While Drilling		1.0		8.0	
Inspector: C. O'Hara		Other:		04/25/24		Before Casing Removed		8.2		15.7	
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel		04/25/24		After Casing Removed		2.2		out	
Type: ATV		Hammer Wt: 140 lbs.		04/25/24		After Casing Removed		caved @ 7.3		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	0.4	SS/16	WH-1-3-4		Topsoil and Organic Material (moist)				4
1	1B	0.4	2.0				Brown SILT, trace CLAY, trace ROOTS (moist, medium stiff)				
2	2	2.0	4.0	SS/15	3-5-5-4		Brown/Grey mottled SILT, trace CLAY (moist, stiff)				10
3											
4	3	4.0	6.0	SS/11	4-5-5-4		Similar as above (moist, stiff)				10
5											
6	4	6.0	8.0	SS/13	3-3-3-2		Grey/Brown SILT, trace CLAY (wet, medium stiff)				6
7											
8	5	8.0	10.0	SS/17	2-2-3-2		Grey SILT, little CLAY (moist, medium stiff)				5
9											
10											
11							Augers gravelly beginning @ 11.0'				
12							Augers harder beginning @ 11.5'				
13	6	13.0	15.0	SS/11	11-16-13-9		Dark Grey/Black ROCK Fragments (Dolostone) (wet)				29
14											
15	7	15.7	15.7	SS/0	50@0"		Augers harder beginning @ 15.3'				
16							Split Spoon and Auger Refusal @ 15.7'				50+
17							Bottom of Boring @ 15.7'				
18											
19											
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-540			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/26/24			
Client: Ramboll				Date Finished		04/26/24			
Location: See Exploration Location Plan				Surface Elev.		389.7'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/26/24	While Drilling	5.0	15.0		
				04/26/24	Before Casing Removed	6.9	19.1		
				04/26/24	After Casing Removed	7.0	out		
				04/26/24	After Casing Removed	caved @ 7.8	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.3	SS/14	1-1-1-5		Topsoil and Organic Material (moist)		2
1	1B	0.3	2.0				Brown SILT, trace CLAY (moist, soft)		
2	2	2.0	4.0	SS/17	3-5-5-5		Similar as above (moist, stiff)		10
3									
4	3	4.0	6.0	SS/13	4-6-4-3		Similar as above (moist, stiff)		10
5									
6	4	6.0	8.0	SS/15	4-6-7-6		Brown SILT, trace CLAY, trace fine SAND (moist, stiff)		13
7									
8	5	8.0	10.0	SS/18	4-4-5-6		Brown SILT, trace CLAY, trace cmf SAND (wet, stiff)		9
9									
10									
11									
12									
13	6	13.0	15.0	SS/17	WR-WH-3-5		Grey/Brown CLAY, some SILT, trace cmf SAND, trace fine GRAVEL (wet, soft)		3
14									
15	7	15.0	17.0		5-7-5-4		Grey CLAY, some SILT, little mf GRAVEL, trace cmf SAND (wet, stiff)		12
16									
17									
18	8	18.0	9.0	SS/3	20-50@5"		Black highly weathered ROCK Fragments (Shale), some SILT (wet)		50+
19	9	19.1	19.1	SS/0	50@0"		Split Spoon and Auger Refusal @ 19.1'		50+
20							Bottom of Boring @ 19.1'		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-541			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/26/24			
Client: Ramboll				Date Finished		04/26/24			
Location: See Exploration Location Plan				Surface Elev.		385.3'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/26/24	While Drilling	11.7	13.0		
				04/26/24	Before Casing Removed	5.0	19.1		
				04/26/24	After Casing Removed	4.5	8.0		
				04/26/24	After Casing Removed	caved @ 11.1	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.3	SS/14	1-1-1-5		Topsoil and Organic Material (moist)		2
1	1B	0.3	2.0				Brown SILT, little CLAY (moist, soft)		
2	2	2.0	4.0	SS/17	5-9-9-9		Brown/Grey mottled SILT, trace CLAY (moist, very stiff)		18
3									
4	3	4.0	6.0	SS/13	8-7-7-7		Brown SILT, trace fine SAND, trace CLAY (moist, stiff)		14
5									
6	4	6.0	8.0	SS/14	9-7-5-5		Brown SILT, trace CLAY (wet, stiff)		12
7									
8	5	8.0	10.0	SS/15	4-4-4-4		Brown/Grey SILT, little CLAY (wet, stiff)		8
9									
10									
11									
12									
13	6	13.0	15.0	SS/10	1-3-5-6		Brown/Grey SILT, little mf GRAVEL, trace cmf SAND, trace CLAY (wet, stiff)		8
14									
15							Augers gravelly beginning @ 15.5'		
16									
17							Augers harder beginning @ 17.3'		
18									
19	7	18.7	19.6	SS/11	31-50@5"		Black highly weathered ROCK Fragments (Dolostone), some SILT (wet)		50+
	8	19.6	19.7	SS/0	50@0"		Split Spoon and Auger Refusal @ 19.1'		
20							Bottom of Boring @ 19.1'		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-542			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/24/24			
Client: Ramboll				Date Finished		04/24/24			
Location: See Exploration Location Plan				Surface Elev.		384.7'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/24/24	While Drilling	0.5	8.0		
				04/24/24	Before Casing Removed	0.0	12.2		
				04/24/24	After Casing Removed	2.0	out		
				04/24/24	After Casing Removed	caved @ 5.6	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.7	SS/13	1-WH-3-4		Topsoil and Organic Material (moist)		3
1	1B	0.7	2.0				Brown/Grey mottled SILT, trace CLAY, trace ROOTS (moist, soft)		
2	2	2.0	4.0	SS/14	5-6-7-7		Brown/Grey mottled SILT, trace CLAY (moist, stiff)		13
3									
4	3	4.0	6.0	SS/15	9-8-7-5		Similar as above (wet, stiff)		15
5									
6	4	6.0	8.0	SS/16	3-3-4-4		Grey SILT, little CLAY (wet, medium stiff)		7
7									
8	5	8.0	9.2	SS/10	WH-WH-50@2"		Brown/Red CLAY, little SILT trace fine GRAVEL, trace cmf SAND (wet, hard)		50+
9									
10									
11									
12	6	12.2	12.3	SS/1	50@1"		<i>Augers harder @ 11.8'</i> Dark Grey/Black ROCK Fragments (Shale) (wet) <i>Split Spoon and Auger Refusal @ 12.2'</i>		50+
13							Bottom of Boring @ 12.2'		
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-543					
				Page No.		1 of 2					
				Project No.		28062					
Project Name: Micron Campus, Clay, New York				Date Started		04/25/24					
Client: Ramboll				Date Finished		04/25/24					
Location: See Exploration Location Plan				Surface Elev.		392.1'					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: Ryan Casatelli		Casing Hammer:		04/25/24		While Drilling		5.3		13.5	
Inspector:		Other: NQ-Core		04/25/24		Before Casing Removed		None Noted		30.1	
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel		04/25/24		After Casing Removed		4.2 *		out	
Type: ATV		Hammer Wt: 140 lbs.		04/25/24		After Casing Removed		8.6		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1	0.0	2.0	SS/15	WH-1-1-1		Brown SILT, little CLAY, trace fine GRAVEL, trace cmf SAND, trace ORGANIC MATERIAL (wet, soft)				2
1											
2	2	2.0	4.0	SS/19	2-4-5-7		Brown/Grey mottled SILT, trace CLAY, trace ORGANIC MATERIAL (moist, stiff)				9
3											
4	3	4.0	6.0	SS/23	4-4-4-5		Brown SILT, trace CLAY (wet, stiff)				8
5											
6	4	6.0	8.0	SS/18	6-5-5-5		Brown SILT, trace CLAY (wet, stiff)				10
7											
8	5	8.0	10.0	SS/17	3-6-7-6		Brown SILT, trace CLAY, trace fine SAND (wet, stiff)				13
9											
10											
11											
12											
13	6	13.5	15.0	SS/12	6-6-5		Grey SILT, some mf GRAVEL, trace cmf SAND, trace CLAY (wet, stiff)				11
14											
15											
16											
17											
18	7	18.5	18.9	SS/5	50@5"		Grey highly weathered ROCK Fragments (Shale) (wet)				50+
19											
20							Continued on Page 2				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: *Water added to boring for coring.

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.		B-543	
									Page No.		2 of 2	
									Project No.		28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) FromTo		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %		
20	R-1	20.2	25.2	C/58	NQ-Core		Continued from Page 1 Auger Refusal @ 20.2'. Set up to core.				67%	
21						Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 2.0" thick), slightly weathered, thinly laminated to medium bedded, medium hard to hard. Weathered horizontal fractures @ 22.2' and 24.2'. Broken and fractured zone @ 24.7' - 25.0'. Recovery: 58"/60" = 97% RQD: 40"/60" = 67% 18 Pieces, 3" Chips and Fragments 1:00 min/ft, no water loss Coring conducted in 4th gear, 1500 rpm, 700 psi down pressure.						
22												
23												
24												
25	R-2	25.2	30.2	C/57	NQ-Core		Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 2.0" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard. Weathered horizontal fractures @ 25.7', 25.9', 27.3 - 27.4 and 29.1'. Broken fractured zone @ 25.2' - 25.4', and 28.8' - 28.9'. Recovery: 57"/60" - 95% RQD: 35"/60" = 58% 24 Pieces, 4" Chips and Fragments 1:00 min/ft, no water loss Coring conducted in 4th gear, 1500 rpm, 700 psi down pressure.				58%	
26												
27												
28												
29												
30	Bottom of Boring @ 30.2'											
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
41												
42												
43												
44												
45												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-544			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/24/24			
Client: Ramboll				Date Finished		04/24/24			
Location: See Exploration Location Plan				Surface Elev.		381.6'			
METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS					
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector:		Other: NQ-Core							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/24/24	While Drilling	5.0	13.5		
				04/24/24	Before Casing Removed	None Noted	30.5		
				04/24/24	After Casing Removed	2.4 *	out		
				04/24/24	After Casing Removed	caved @ 11.5	out		
LOG OF BORING SAMPLES				VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/14	WH-1-3-4		Brown SILT, trace CLAY, trace fine SAND, trace ORGANIC MATERIAL (moist, medium stiff)		4
1									
2	2	2.0	4.0	SS/20	3-3-5-5		Brown SILT, trace CLAY (moist, stiff)		8
3									
4	3	4.0	6.0	SS/22	2-4-5-4		Brown SILT, trace CLAY (wet, stiff)		9
5									
6	4	6.0	8.0	SS/19	4-5-8-6		Brown SILT, trace CLAY, trace fine SAND (wet, stiff)		13
7									
8	5	8.0	10.0	SS/12	4-3-11-13		Brown cmf GRAVEL, some SILT, trace cmf SAND (wet, medium compact)		14
9									
10									
11									
12									
13	6	12.5	15.0	SS/13	12-12-12		Grey/Brown cmf GRAVEL, some cmf SAND, trace SILT (wet, medium compact)		24
14									
15									
16	R-1	15.5	20.5	C/60	NQ-Core		Auger Refusal @ 15.5'. Set up to core.		40%
17							Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 2.0" thick), slightly weathered, thinly laminated to thinly bedded, hard. Broken and fractured zones @ 16.4' - 16.6' and 17.5' - 18.5'. Weathered zones (1/2" - 3 1/4" thick) @ 16.7' and 18.3'. Recovery: 60"/60" = 100% RQD: 24"/60" = 40%		
18							17 Pieces, 9" Chips and Fragments		
19							1:00 min/ft, no water loss		
20							Coring conducted in 4th gear, 1500 rpm, 700 psi down pressure. Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: *Water added to boring for coring.

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.	B-544
								Page No.	2 of 2
								Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) FromTo		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20	R-2	20.5	25.5	C/60	NQ-Core		Continued from Page 1 Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 2.0" thick), slightly weathered, thinly laminated to thinly bedded, hard. <i>Broken and weathered zones @ 21.5' - 21.6' and 22.0' - 22.2'.</i> Recovery: 60"/60" = 100% RQD: 50"/60" = 83% 17 Pieces, 2" Chips and Fragments 1:00 min/ft, no water loss Coring conducted in 4th gear, 1500 rpm, 700 psi down pressure.		83%
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
							Bottom of Boring @ 25.5'		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-545			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/26/24			
Client: Ramboll				Date Finished		04/26/24			
Location: See Exploration Location Plan				Surface Elev.		392.6'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector:		Other: NQ-Core							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/26/24	While Drilling	4.2	23.5		
				04/26/24	Before Casing Removed	None Noted	35.2		
				04/26/24	After Casing Removed	4.2 *	out		
				04/26/24	After Casing Removed	caved @ 9.1	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/16	1-2-4-5		Brown/Grey mottled SILT, trace CLAY (moist, medium stiff)		6
1									
2	2	2.0	4.0	SS/18	6-6-5-6		Brown SILT, trace CLAY (wet, stiff)		11
3									
4	3	4.0	6.0	SS/20	4-4-4-4		Brown SILT, little CLAY (wet, stiff)		8
5									
6	4	6.0	8.0	SS/16	2-4-4-5		Brown SILT, trace CLAY (wet, stiff)		8
7									
8	5	8.0	10.0	SS/21	3-3-3-4		Similar as above (wet, medium stiff)		6
9									
10									
11									
12									
13	6	13.5	15.0	SS/14	3-3-5		Brown/Grey SILT, little cmf SAND, little CLAY, trace fine GRAVEL (wet, stiff)		8
14									
15									
16									
17									
18	7	18.5	20.0	SS/6	2-3-4		Grey cmf GRAVEL, little SILT, trace cmf SAND (wet, loose)		7
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: * Water added to boring for coring.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No. B-545	
									Page No. 2 of 2	
									Project No. 28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	8	23.5	25.0	SS/16	13-35-35		Continued from Page 1		70	
21										
22										
23										
24							Dark Grey weathered ROCK Fragments (Dolostone) (wet)			
25	R-1	25.7	30.7	C/60	NQ-Core		Auger Refusal @ 25.7'. Set up to core.		77%	
26							Grey DOLOSTONE with interbedded SHALE layers (1/8" - 3" thick), slightly weathered, laminated to thinly bedded, medium hard to hard.			
27							Weathered and broken zones @ 26.0' - 26.1' and 29.5' - 29.9'.			
28							SILT seam @ 26.8' - 27.1'.			
29							Recovery: 60"/60" = 100% RQD: 46"/60" = 77%			
30	R-2	30.7	35.7	C/59	NQ-Core		16 Pieces, 5" Chips and Fragments		83%	
31							1:00 - 2:30 min/ft, no water loss			
32							Coring conducted in 4th gear, 1500 rpm, 700 psi down pressure.			
33							Grey DOLOSTONE with interbedded SHALE layers (1/8" - 2" thick), slightly weathered, laminated to medium bedded, medium hard to hard.			
34							Weathered and broken zone @ 31.8' - 32.0'.			
35							CALCITE deposit (~ 1" thick) @ 34.2'.			
36							Recovery: 59"/60" = 98% RQD: 50"/60" = 83%			
37							9 Pieces, 2" Chips and Fragments			
38							1:00 min/ft, no water loss			
39							Coring conducted in 4th gear, 1500 rpm, 700 psi down pressure.			
40							Bottom of Boring @ 35.7'			
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-546			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/22/24			
Client: Ramboll				Date Finished		04/22/24			
Location: See Exploration Location Plan				Surface Elev.		394.5'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector:		Other:							
Drill Rig: CME 550X		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/22/24	While Drilling	14.0	18.5		
				04/22/24	Before Casing Removed	11.5	22.5		
				04/22/24	After Casing Removed	None Noted	out		
				04/22/24	After Casing Removed	caved @ 5.0	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	1.0	SS/16	1-WH-4-7		Topsoil and Organic Material (moist)		4
1	1B	1.0	2.0				Brown SILT, trace CLAY, trace ORGANIC MATERIAL (moist, medium stiff)		
2	2	2.0	4.0	SS/22	6-8-7-7		Brown/Grey mottled SILT, trace CLAY, trace fine SAND (wet, very stiff)		15
3									
4	3	4.0	6.0	SS/18	2-3-3-4		Brown SILT, trace CLAY (wet, medium stiff)		6
5									
6	4	6.0	8.0	SS/20	1-2-2-3		Brown SILT, little CLAY (wet, medium stiff)		4
7									
8	5	8.0	10.0	SS/17	8-7-2-4		Brown/Red SILT, little CLAY, little cmf SAND, trace fine GRAVEL (wet, stiff)		9
9									
10									
11									
12									
13	6	13.5	15.0	SS/8	10-11-16		Brown SILT and cmf GRAVEL, little cmf SAND, trace CLAY (wet, very stiff)		27
14									
15									
16									
17									
18	7	18.5	20.0	SS/11	7-7-12		Grey mf GRAVEL, little cmf SAND, little SILT (wet, medium compact)		19
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.	B-546
							Page No.	2 of 2		
							Project No.	28062		
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) FromTo		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	8	22.5	22.5	SS/0	50@0"		Continued from Page 1		50+	
21										
22										
23							Split Spoon and Auger Refusal @ 22.5'			
24							Bottom of Boring @ 22.5'			
25										
26										
27										
28										
29										
30										
31										
32										
33										
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42										
43										
44										
45										

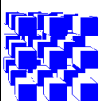
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-547			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/24/24			
Client: Ramboll				Date Finished		04/25/24			
Location: See Exploration Location Plan				Surface Elev.		389.0'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector:		Other: NQ-Core							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/25/24	While Drilling	2.8	13.5		
				04/25/24	Before Casing Removed	None Noted	31.0		
				04/25/24	After Casing Removed	2.8 *	out		
				04/25/24	After Casing Removed	caved @ 8.1	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/17	1-1-4-5		Brown SILT, trace CLAY, trace ORGANIC MATERIAL (wet, medium stiff)		5
1									
2	2	2.0	4.0	SS/18	5-5-5-6		Brown SILT, trace CLAY (wet, stiff)		10
3									
4	3	4.0	6.0	SS/24	4-4-4-5		Brown/Grey SILT, trace CLAY (wet, stiff)		8
5									
6	4	6.0	8.0	SS/16	4-5-6-9		Similar as above (wet, stiff)		11
7									
8	5	8.0	10.0	SS/19	7-5-5-5		Brown SILT, little CLAY (wet, stiff)		10
9									
10									
11									
12									
13	6	13.5	15.0	SS/4	3-2-3		Brown/Grey SILT, little mf GRAVEL, trace cmf SAND, trace CLAY (wet, medium stiff)		5
14									
15									
16							Augered gravelly beginning @ 16.0'		
17									
18	7	18.5	18.8	SS/3	50@3"		Grey/Black cmf GRAVEL, little cmf SAND, trace SILT (wet, very compact)		50+
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: *Water added to boring for coring.

 CME Associates, Inc.					6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG			Boring No. Page No. Project No.	B-547 2 of 2 28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
20	R-1	21.0	26.0	C/56	NQ-Core		Continued from Page 1			28%	
21						<i>Auger Refusal @ 21.0'. Set up to core.</i>					
22						Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 1" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard.					
23						<i>Broken and fractured zones @ 21.0' - 21.2' and 24.0' - 24.3'. Weathered horizontal fractures @ 21.4', 21.7', 22.6' and 23.2'.</i>					
24						Recovery: 56"/60" = 93% RQD: 17"/60" = 28% 22 Pieces, 8" Chips and Fragments 1:00 min/ft, no water loss					
25	R-2	26.0	31.0	C/59			<i>Coring conducted in 4th gear, 1500 rpm, 700 psi down pressure.</i>			90%	
26						Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 2" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard.					
27						<i>Weathered horizontal fracture @ 27.9'.</i>					
28						Recovery: 59"/60" = 98% RQD: 54"/60" = 90% 10 Pieces, 4" Chips and Fragments 1:00 min/ft, no water loss					
29						<i>Coring conducted in 4th gear, 1500 rpm, 700 psi down pressure.</i>					
30							Bottom of Boring @ 31.0'				
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-548			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/22/24			
Client: Ramboll				Date Finished		04/22/24			
Location: See Exploration Location Plan				Surface Elev.		393.4'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/22/24	While Drilling	6.8	13.0		
				04/22/24	Before Casing Removed	5.3	20.8		
				04/22/24	After Casing Removed	None Noted	out		
				04/22/24	After Casing Removed	caved @	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/11	1-1-3-5		Topsoil and Organic Material (moist)		4
1	1B	0.5	2.0				Brown SILT, trace CLAY (moist, medium stiff)		
2	2	2.0	4.0	SS/14	3-4-5-5		Brown/Grey mottled SILT, trace CLAY (moist, stiff)		9
3									
4	3	4.0	6.0	SS/13	3-4-5-5		Brown SILT, little CLAY (moist, stiff)		9
5									
6	4	6.0	8.0	SS/12	2-1-4-5		Brown SILT, trace CLAY (wet, medium stiff)		5
7									
8	5	8.0	10.0	SS/14	4-5-6-5		Similar as above (wet, stiff)		11
9									
10									
11									
12							Augers harder like Cobble @ 12.0'		
13	6	13.0	15.0	SS/9	7-25-23-30		Grey/Brown cmf GRAVEL and SILT, trace cmf SAND (wet, compact)		48
14									
15									
16									
17									
18	7A	18.0	18.5	SS/12	17-23-18-30		Grey/Brown cmf GRAVEL, some SILT, trace cmf SAND (wet, compact)		41
19	7B	18.5	20.0				Black highly weathered ROCK Fragments (Shale) and SILT, trace cmf SAND (moist)		
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.	B-548
									Page No.	2 of 2
									Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	8	20.8	20.8	SS/0	50@0"		Continued from Page 1		50+	
						Augers harder beginning @ 20.8'				
21						Split Spoon Refusal - No Recovery				
22						Bottom of Boring @ 20.8'				
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-549					
				Page No.		1 of 2					
				Project No.		28062					
Project Name: Micron Campus, Clay, New York				Date Started		04/22/24					
Client: Ramboll				Date Finished		04/22/24					
Location: See Exploration Location Plan				Surface Elev.		391.3'					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: Ryan Casatelli		Casing Hammer:		04/22/24		While Drilling		9.5		25.1	
Inspector:		Other: NQ-Core		04/22/24		Before Casing Removed		None Noted		35.1	
Drill Rig: CME 550X		Soil Sampler: 2" OD Split Barrel		04/22/24		After Casing Removed		3.8 *		out	
Type: ATV		Hammer Wt: 140 lbs.		04/22/24		After Casing Removed		caved @ 5.4		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	0.5	SS/17	WH-2-3-5		Topsoil and Organic Material (moist)				5
1	1B	0.5	2.0				Brown/Grey mottled SILT, little CLAY, trace fine SAND (moist, medium stiff)				
2	2	2.0	4.0	SS/20	6-5-6-6		Brown/Grey mottled SILT, little CLAY (moist, stiff)				11
3											
4	3	4.0	6.0	SS/24	3-4-3-3		Brown SILT, trace CLAY (wet, medium stiff)				7
5											
6	4	6.0	8.0	SS/19	3-3-4-4		Similar as above (wet, medium stiff)				7
7											
8	5	8.0	10.0	SS/20	2-3-4-6		Similar as above (wet, medium stiff)				7
9											
10											
11											
12											
13	6	13.5	15.0	SS/16	2-4-4		Brown/Red SILT and mf SAND, trace CLAY (wet, stiff)				8
14											
15											
16											
17											
18	7	18.5	20.0	SS/12	8-14-12		Dark Grey cmf GRAVEL, some SILT, little cmf SAND (wet, very stiff)				26
19											
20							Continued on Page 2				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: *Water added to boring for coring.

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522				SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.	B-549
									Page No.	2 of 2
									Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
20	8	23.5	25.0	SS/12	27-26-31		Continued from Page 1			57
21										
22										
23										
24							Dark Grey cmf GRAVEL and weathered ROCK Fragments, trace cmf SAND, trace SILT (wet, very compact)			
25	R-1	25.1	30.1	C/57	NQ-Core		Auger Refusal @ 25.1. Set up to core.			65%
26							Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 2" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard.			
27							Broken and fractured zone @ 25.6' - 25.8'. Weathered and broken zone (1/2" thick) @ 25.9'. SILT seam (1/8" thick) @ 27.8'.			
28							Recovery: 57"/60" = 95% RQD: 39"/60" = 65%			
29							16 Pieces, 3" Chips and Fragments 1:15 min/ft, no water loss			
30	R-2	30.1	35.1	C/60	NQ-Core		Coring conducted in 4th gear, 1700 rpm, 700 psi down pressure.			100%
31							Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 1" thick), slightly weathered, thinly laminated to medium bedded, medium hard to hard.			
32							Recovery: 60"/60" = 100%			
33							RQD: 60"/60" = 100%			
34							11 Pieces, 0" Chips and Fragments 1:00 min/ft, no water loss			
35							Coring conducted in 4th gear, 1700 rpm, 700 psi down pressure.			
36										
37										
38										
39										
40										
41										
42										
43										
44										
45							Bottom of Boring @ 35.1'			

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-552			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/22/24			
Client: Ramboll				Date Finished		04/22/24			
Location: See Exploration Location Plan				Surface Elev.		390.3'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/22/24	While Drilling	5.4	6.0		
				04/22/24	Before Casing Removed	7.0	22.8		
				04/22/24	After Casing Removed	3.7	out		
				04/22/24	After Casing Removed	caved @ 8.5	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/12	1-2-3-2		Topsoil and Organic Material (moist)		5
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace cmf SAND, trace ORGANIC MATERIAL (moist, medium stiff)		
2	2	2.0	4.0	SS/13	2-4-3-3		Brown SILT, some CLAY (moist, medium stiff)		7
3									
4	3	4.0	6.0	SS/18	2-1-1-2		Brown CLAY and SILT (moist, soft)		2
5									
6	4	6.0	8.0	SS/15	1-1-1-1		Brown SILT, some CLAY (wet, soft)		2
7									
8	5	8.0	10.0	SS/13	1-4-5-5		Brown SILT, trace CLAY (wet, stiff)		9
9									
10									
11									
12									
13	6	13.0	15.0	SS/11	2-1-3-2		Similar as above (wet, medium stiff)		4
14									
15	7	15.0	17.0	SS/16	3-5-4-4		Similar as above (wet, stiff)		9
16									
17									
18	8	17.0	19.0	SS/14	2-3-4-3		Brown/Grey SILT, some mf GRAVEL, little CLAY, trace cmf SAND (wet, medium stiff)		7
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No. B-552		
								Page No. 2 of 2			
								Project No. 28062			
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
20	9	23.0	23.7		19-50@2"		Continued from Page 1			50+	
21											
22											
23						Augers harder beginning @ 22.8' Grey cmf GRAVEL, some SILT, some cmf SAND (wet, very compact)					
24						Auger Refusal @ 23.7'					
25						Bottom of Boring @ 23.7'					
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-553																					
						Page No.		1 of 1																					
						Project No.		28062																					
Project Name: Micron Campus, Clay, New York						Date Started		04/25/24																					
Client: Ramboll						Date Finished		04/25/24																					
Location: See Exploration Location Plan						Surface Elev.		383.2'																					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																							
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>04/25/24</td> <td>While Drilling</td> <td>3.0</td> <td>6.0</td> </tr> <tr> <td>04/25/24</td> <td>Before Casing Removed</td> <td>3.4</td> <td>12.8</td> </tr> <tr> <td>04/25/24</td> <td>After Casing Removed</td> <td>2.1</td> <td>out</td> </tr> <tr> <td>04/25/24</td> <td>After Casing Removed</td> <td>caved @ 3.8</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	04/25/24	While Drilling	3.0	6.0	04/25/24	Before Casing Removed	3.4	12.8	04/25/24	After Casing Removed	2.1	out	04/25/24	After Casing Removed	caved @ 3.8	out				
Date	Time	Depth (Ft.)	Casing At (Ft.)																										
04/25/24	While Drilling	3.0	6.0																										
04/25/24	Before Casing Removed	3.4	12.8																										
04/25/24	After Casing Removed	2.1	out																										
04/25/24	After Casing Removed	caved @ 3.8	out																										
Driller: K. Crandall		Casing Hammer:																											
Inspector: C. O'Hara		Other:																											
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel																											
Type: ATV		Hammer Wt: 140 lbs.																											
Rod Size: AWJ		Hammer Fall: 30 in.																											
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %																				
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%																						
0	1A	0.0	0.5	SS/13	1-WH-5-5		Topsoil and Organic Material (moist)		5																				
1	1B	0.5	2.0				Brown/Grey/Orange mottled SILT, trace CLAY (moist, medium stiff)																						
2	2	2.0	4.0	SS/14	5-5-5-4		Brown SILT, little mf GRAVEL, trace cmf SAND, trace CLAY (moist, stiff)		10																				
3																													
4	3	4.0	6.0	SS/16	5-16-33-22		Dark Grey/Brown ROCK Fragments (Shale), little cmf SAND, trace fine GRAVEL, trace SILT (moist)		49																				
5							Augers like Cobble beginning @ 3.5'																						
6	4	6.0	8.0	SS/14	4-11-12-19		Brown mf GRAVEL and SILT, some cmf SAND (wet, medium compact)		23																				
7																													
8	5	8.0	10.0	SS/15	7-14-17-14		Brown cmf GRAVEL and cmf SAND, trace SILT (wet, compact)		31																				
9																													
10																													
11																													
12	6	12.2	12.4	SS/2	50@2"		Grey ROCK Fragments (Shale) (wet)		50+																				
13	7	12.9	12.9	SS/0	50@0"		Auger Refusal @ 12.8'		50+																				
14							No Recovery, Split Spoon and Auger Refusal @ 12.9'																						
15							Bottom of Boring @ 12.9'																						
16																													
17																													
18																													
19																													
20																													

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-554			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/24/24			
Client: Ramboll				Date Finished		04/24/24			
Location: See Exploration Location Plan				Surface Elev.		393.8'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/24/24	While Drilling	2.0	8.0		
				04/24/24	Before Casing Removed	11.0	22.4		
				04/24/24	After Casing Removed	4.0	out		
				04/24/24	After Casing Removed	caved @ 8.3	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/12	1-WH-1-1		Topsoil and Organic Material (moist)		1
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace ORGANIC MATERIAL (moist, soft)		
2	2	2.0	4.0	SS/16	2-4-4-5		Brown SILT, trace CLAY (moist, medium stiff)		8
3									
4	3	4.0	6.0	SS/13	3-2-2-4		Similar as above (moist, medium stiff)		4
5									
6	4	6.0	8.0	SS/15	3-4-3-4		Similar as above (moist, medium stiff)		7
7									
8	5	8.0	10.0	SS/17	3-3-4-5		Similar as above (moist, medium stiff)		7
9									
10									
11							Augers harder like Cobble @ 11.0'		
12									
13	6	13.0	15.0	SS/14	5-20-18-16		Brown cmf SAND, some SILT, trace fine GRAVEL (moist, compact)		38
14									
15									
16									
17									
18	7	18.0	20.0	SS/16	WH-3-8-16		Brown/Grey cmf SAND and SILT, little fine GRAVEL (wet, medium compact)		11
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No. B-554	
								Page No. 2 of 2	
								Project No. 28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) FromTo		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20	8	21.0	22.4	SS/10	31-30-50@5"		Continued from Page 1		50+
21							Augers like Rock beginning @ 21.0'		
22							Grey highly weathered ROCK Fragments (Shale), some SILT (moist, hard)		
23	9	22.4	23.7		38-42-27-50@2"		Auger Refusal @ 22.4' Similar as above (wet)		69
24							Bottom of Boring @ 23.7'		
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-555					
				Page No.		1 of 2					
				Project No.		28062					
Project Name: Micron Campus, Clay, New York				Date Started		05/03/24					
Client: Ramboll				Date Finished		05/03/24					
Location: See Exploration Location Plan				Surface Elev.		386.4'					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: K. Crandall		Casing Hammer:		05/03/24		While Drilling		5.7		8.0	
Inspector: C. O'Hara		Other:		05/03/24		Before Casing Removed		7.3		20.7	
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel		05/03/24		After Casing Removed		6.7		out	
Type: ATV		Hammer Wt: 140 lbs.		05/03/24		After Casing Removed		caved @ 13.5		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	0.6	SS/13	WH-1-1-2		Topsoil and Organic Material (moist)				2
1	1B	0.6	2.0				Brown SILT, some CLAY, trace fine SAND (moist, soft)				
2	2	2.0	4.0	SS/14	1-2-4-3		Brown/Grey mottled CLAY, little SILT (moist, medium stiff)				6
3											
4	3	4.0	6.0	SS/12	1-2-3-3		Brown/Grey mottled CLAY, some SILT (moist, medium stiff)				5
5											
6	4	6.0	8.0	SS/11	3-4-4-5		Brown SILT, trace CLAY (wet, stiff)				8
7											
8	5	8.0	10.0	SS/24	4-4-5-7		Similar as above (wet, stiff)				9
9											
10											
11											
12											
13	6	13.0	15.0	SS/18	2-3-3-3		Brown SILT, little CLAY (wet, medium stiff)				6
14											
15											
16											
17											
18	7	18.0	20.0	SS/11	8-9-10-9		Dark Grey/Black SILT and cmf GRAVEL, little CLAY, trace cmf SAND (moist, very stiff)				19
19											
20							Continued on Page 2				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



6035 Corporate Drive
East Syracuse, NY 13057
Phone: 315-701-0522

SUBSURFACE EXPLORATION TEST BORING LOG

Boring No.**B-555****Page No.**

2 of 2

Project No.

28062

LOG OF BORING SAMPLES**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20	8	20.7	20.7	SS/0	50@0"		Continued from Page 1		50+
21						Augers like Rock beginning @ 20.5'			
22						Split Spoon and Auger Refusal @ 20.7'			
23						Bottom of Boring @ 20.7			
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-557			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/22/24			
Client: Ramboll				Date Finished		04/22/24			
Location: See Exploration Location Plan				Surface Elev.		382.0'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector:		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/22/24	While Drilling	11.0	13.5		
				04/22/24	Before Casing Removed	3.0	23.8		
				04/22/24	After Casing Removed	4.6	out		
				04/22/24	After Casing Removed	caved @ 8.4	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	1.0	SS/14	WH-1-3-3		Topsoil and Organic Material (moist)		4
1	1B	1.0	2.0				-----		
2	2	2.0	4.0	SS/17	4-4-4-5		Brown SILT, trace CLAY, trace fine SAND, trace ORGANIC MATERIAL (moist, medium stiff)		8
3							Brown/Grey mottled SILT, trace CLAY (moist, stiff)		
4	3	4.0	6.0	SS/23	3-4-4-5		Brown SILT, trace CLAY (wet, stiff)		8
5									
6	4	6.0	8.0	SS/24	4-4-4-5		Brown SILT, trace CLAY (wet, stiff)		8
7									
8	5	8.0	10.0	SS/19	1-2-3-5		Brown SILT, little CLAY (wet, medium stiff)		5
9									
10									
11									
12									
13	6	13.5	15.0	SS/12	1-6-9		Grey/Brown cmf GRAVEL, little SILT, trace cmf SAND, trace CLAY (wet, medium compact)		15
14									
15									
16									
17									
18	7	18.5	20.0	SS/20	6-8-8		Grey mf GRAVEL, some cmf SAND, trace SILT (wet, medium compact)		16
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.		B-557	
									Page No.		2 of 2	
									Project No.		28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %		
20	8	23.5	23.8	SS/4	50@4"		Continued from Page 1			50+		
21												
22												
23												
24							Grey/Black highly weathered ROCK Fragments (Shale) (moist)					
25							Bottom of Boring @ 23.8'					
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
41												
42												
43												
44												
45												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-558					
				Page No.		1 of 1					
				Project No.		28062					
Project Name: Micron Campus, Clay, New York				Date Started		04/22/24					
Client: Ramboll				Date Finished		04/22/24					
Location: See Exploration Location Plan				Surface Elev.		382.0'					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: K. Crandall		Casing Hammer:		04/22/24		While Drilling		4.0		8.0	
Inspector: C. O'Hara		Other:		04/22/24		Before Casing Removed		11.0		14.0	
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel		04/22/24		After Casing Removed		5.0		out	
Type: ATV		Hammer Wt: 140 lbs.		04/22/24		After Casing Removed		caved @ 7.5		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	0.5	SS/17	WH-1-1-3		Topsoil and Organic Material (moist)				2
1	1B	0.5	2.0				Brown SILT, little CLAY, trace ORGANIC MATERIAL (moist, soft)				
2	2	2.0	4.0	SS/15	2-4-3-2		Brown/Grey mottled SILT, trace CLAY (moist, medium stiff)				7
3							Augered easier beginning @ 3.3'				
4	3	4.0	6.0	SS/14	3-3-4-3		Brown SILT, little CLAY, trace fine SAND (wet, medium stiff)				7
5											
6	4	6.0	8.0	SS/15	3-3-4-4		Similar as above (wet, medium stiff)				7
7											
8	5	8.0	10.0	SS/13	4-4-5-3		Brown SILT, trace CLAY (wet, stiff)				9
9											
10											
11											
12											
13	6	13.0	13.9	SS/8	WH-50@5"		Grey/Brown SILT and CLAY, little mf GRAVEL, trace cmf SAND (moist, hard)				50+
14							Split Spoon and Auger Refusal @ 13.9'				
15							Bottom of Boring @ 13.9'				
16											
17											
18											
19											
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-559			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/22/24			
Client: Ramboll				Date Finished		04/22/24			
Location: See Exploration Location Plan				Surface Elev.		385.4'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/22/24	While Drilling	3.5	4.0		
				04/22/24	Before Casing Removed	9.0	18.9		
				04/22/24	After Casing Removed	4.0	out		
				04/22/24	After Casing Removed	caved @ 11.0	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/14	1-1-2-5		Topsoil and Organic Material (moist)		3
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace ORGANIC MATERIAL (moist, soft)		
2	2	2.0	4.0	SS/15	3-3-3-4		Brown/Grey mottled SILT, trace CLAY, trace ROOTS (moist, medium stiff)		6
3									
4	3	4.0	6.0	SS/13	WH-2-2-3		Brown SILT, trace CLAY (wet, medium stiff)		4
5									
6	4	6.0	8.0	SS/15	2-4-4-3		Similar as above (wet, stiff)		8
7									
8	5	8.0	10.0	SS/13	3-5-3-4		Similar as above (wet, stiff)		8
9									
10									
11							Augers gravelly beginning @ 11.3'		
12									
13	6	13.0	15.0	SS/11	6-24-47-17		Grey cmf GRAVEL, some SILT, little cmf SAND, trace CLAY (wet, very compact)		71
14									
15									
16									
17							Augers like COBBLE @ 17.7'		
18	7	18.0	18.9	SS/10	8-50@5"		Dark Grey highly weathered ROCK Fragments (Shale), some mf GRAVEL, little cmf SAND, little SILT (wet)		50+
19							Bottom of Boring @ 18.9'		
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-560																					
						Page No. 1 of 2																					
						Project No. 28062																					
Project Name: Micron Campus, Clay, New York						Date Started 04/23/24																					
Client: Ramboll						Date Finished 04/23/24																					
Location: See Exploration Location Plan						Surface Elev. 388.0'																					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																					
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>04/23/24</td> <td>While Drilling</td> <td>13.5</td> <td>18.0</td> </tr> <tr> <td>04/23/24</td> <td>Before Casing Removed</td> <td>9.3</td> <td>20.2</td> </tr> <tr> <td>04/23/24</td> <td>After Casing Removed</td> <td>None Noted</td> <td>out</td> </tr> <tr> <td>04/23/24</td> <td>After Casing Removed</td> <td>caved @ 8.1</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	04/23/24	While Drilling	13.5	18.0	04/23/24	Before Casing Removed	9.3	20.2	04/23/24	After Casing Removed	None Noted	out	04/23/24	After Casing Removed	caved @ 8.1	out		
Date	Time	Depth (Ft.)	Casing At (Ft.)																								
04/23/24	While Drilling	13.5	18.0																								
04/23/24	Before Casing Removed	9.3	20.2																								
04/23/24	After Casing Removed	None Noted	out																								
04/23/24	After Casing Removed	caved @ 8.1	out																								
Driller: K. Crandall		Casing Hammer:																									
Inspector: C. O'Hara		Other:																									
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel																									
Type: ATV		Hammer Wt: 140 lbs.																									
Rod Size: AWJ		Hammer Fall: 30 in.																									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %																	
		From	To																								
0	1A	0.0	0.2	SS/6	1-1-1-2		Topsoil and Organic Material (moist)			2																	
1	1B	0.2	2.0				Brown SILT, trace CLAY, trace ORGANIC MATERIAL (moist, soft)																				
2	2	2.0	4.0	SS/16	4-8-6-5		Brown SILT, trace CLAY (moist, stiff)			14																	
3																											
4	3	4.0	6.0	SS/13	4-5-6-6		Similar as above (moist, stiff)			11																	
5																											
6	4	6.0	8.0	SS/10	3-1-1-2		Brown SILT, trace CLAY, trace fine SAND (moist, soft)			2																	
7																											
8	5	8.0	10.0	SS/11	5-11-14-14		<i>Augers gravelly beginning @ 7.8'</i> Brown SILT and cmf GRAVEL, little cmf SAND, trace CLAY (wet, very stiff)			25																	
9																											
10																											
11																											
12							<i>Augers harder beginning @ 11.6'</i>																				
13	6	13.0	15.0	SS/8	15-12-12-10		Brown/Grey SILT, some cmf GRAVEL, trace cmf SAND (wet, very stiff)			24																	
14																											
15																											
16																											
17																											
18	7	18.0	18.3	SS/4	50@4"		Grey cmf GRAVEL, little SILT, trace cmf SAND (wet, very compact)			50+																	
19																											
20							Continued on Page 2																				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.		B-560	
									Page No.		2 of 2	
									Project No.		28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) FromTo		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %		
20	8	20.0	20.2	SS/2	50@2"		Continued from Page 1 Dark Grey ROCK Fragments (wet) <i>Split Spoon and Auger Refusal @ 20.2'</i>					
21						Bottom of Boring @ 20.2'						
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												
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34												
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36												
37												
38												
39												
40												
41												
42												
43												
44												
45												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-561			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/24/24			
Client: Ramboll				Date Finished		04/24/24			
Location: See Exploration Location Plan				Surface Elev.		383.5'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other: NQ-Core							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/24/24	While Drilling	None Noted	10.0		
				04/24/24	Before Casing Removed	5.4 *	20.4		
				04/24/24	After Casing Removed	12 *	out		
				04/24/24	After Casing Removed	caved @ 20.0	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/13	1-1-2-5		Topsoil and Organic Material (moist)		3
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace fine SAND, trace ORGANIC MATERIAL (moist, soft)		
2	2	2.0	4.0	SS/18	3-4-5-4		Brown/Grey CLAY, little SILT (moist, stiff)		9
3									
4	3	4.0	6.0	SS/12	3-2-2-3		Brown/Grey CLAY, little SILT, trace ORGANIC MATERIAL (moist, medium stiff)		4
5									
6	4	6.0	8.0	SS/14	2-2-3-5		Brown SILT, little CLAY (moist, medium stiff)		5
7									
8	5	8.0	10.0	SS/13	3-5-5-6		Brown/Grey SILT, trace CLAY (moist, stiff)		10
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/16	2-2-3		Brown/Grey SILT, little CLAY (wet, medium stiff)		5
15									
16									
17									
18									
19	7A	18.5	19.3	SS/12	2-4-50@4"		Similar as above (moist)		50+
	7B	19.3	19.8				Grey cmf GRAVEL, some cmf SAND, little SILT (wet, very compact)		
	7B	19.3	19.8						
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: *Water added to boring for coring.

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No. B-561 Page No. 2 of 2 Project No. 28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	R-1	20.4	25.4	C/60	NQ-Core		Continued from Page 1 compact) <i>Auger Refusal @ 20.4'. Set up to core.</i>		92%	
21						Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 2" thick), thinly laminated to thinly bedded, hard.				
22						Recovery: 60"/60" = 100%				
23						RQD: 55"/60" = 92%				
24						16 Pieces, 1" Chips and Fragments 1:00 min/ft, no water loss Coring conducted in 4th gear, 1700 rpm, 700 psi down pressure.				
25	R-2	25.4	30.4	C/60	NQ-Core		Grey DOLOSTONE, fresh, thickly bedded, hard.		100%	
26						Recovery: 60"/60" = 100%				
27						RQD: 60"/60" = 100%				
28						4 Pieces, 0" Chips and Fragments				
29						1:00 min/ft, no water loss Coring conducted in 4th gear, 1700 rpm, 700 psi down pressure.				
30						Bottom of Boring @ 30.4'				
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-563			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/22/24			
Client: Ramboll				Date Finished		04/22/24			
Location: See Exploration Location Plan				Surface Elev.		381.1'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector:		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/22/24	While Drilling	7.0	13.0		
				04/22/24	Before Casing Removed	6.0 *	23.3		
				04/22/24	After Casing Removed	1.0 *	out		
				04/22/24	After Casing Removed	caved @ 7.0	out		
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/11	1-2-4-4		Topsoil and Organic Material (moist)		6
1	1B	0.5	2.0				Brown/Grey mottled SILT, trace CLAY, trace cmf SAND (moist, medium stiff)		
2	2	2.0	4.0	SS/24	3-2-3-4		Brown SILT, trace CLAY, trace fine GRAVEL, trace cmf SAND (moist, medium stiff)		5
3									
4	3	4.0	6.0	SS/24	2-3-4-4		Brown/Grey/Orange mottled CLAY, some SILT (moist, medium stiff)		7
5									
6	4	6.0	8.0	SS/18	3-3-4-3		Brown/Grey/Orange SILT, some CLAY (wet, medium stiff)		7
7									
8	5	8.0	10.0	SS/24	3-4-4-4		Brown/Grey/Orange SILT, trace CLAY (wet, medium stiff)		8
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/17	1-2-2-2		Grey SILT, little CLAY (wet, medium stiff)		4
15	7	15.0	17.0	SS/18	2-2-2-2		Grey SILT, trace fine SAND, trace CLAY (moist, medium stiff)		4
16									
17	8	17.0	19.0	SS/15	1-2-4-4		Grey SILT, trace CLAY (wet, medium stiff)		6
18									
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: *Water added to boring for coring.

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.	B-563
									Page No.	2 of 2
									Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
20	9	23.0	23.0	SS/1	50@1"		Continued from Page 1			50+
21										
22										
23							Augers harder beginning @ 22.5' Grey weathered ROCK Fragments (Shale) (wet) Split Spoon and Auger Refusal @ 23.3'			
24							Bottom of Boring @ 23.3'			
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522				SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-564			
		Page No.		1 of 1											
		Project No.		28062											
Project Name:						Micron Campus, Clay, New York						Date Started		04/23/24	
Client:						Ramboll						Date Finished		04/23/24	
Location:						See Exploration Location Plan						Surface Elev.		380.8'	
METHODS OF INVESTIGATION								GROUNDWATER OBSERVATIONS							
Driller:		Beau Fletcher		Casing:		3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller:		Ryan Casatelli		Casing Hammer:				04/23/24		While Drilling		11.0		13.0	
Inspector:		Chris O'Hara		Other:				04/23/24		Before Casing Removed		12.0		18.5	
Drill Rig:		CME 55		Soil Sampler:		2" OD Split Barrel		04/23/24		After Casing Removed		5.6		out	
Type:		ATV		Hammer Wt:		140 lbs.		04/23/24		After Casing Removed		caved @ 6.8		out	
Rod Size:		AWJ		Hammer Fall:		30 in.		04/23/24		After Casing Removed		caved @ 6.8		out	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL									
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%				SPT "N" or RQD %		
		From	To												
0	1A	0.0	0.6	SS/15	1-1-2-4		Topsoil and Organic Material (moist)						3		
1	1B	0.6	2.0				Brown SILT, trace CLAY, trace fine SAND (moist, soft)								
2	2	2.0	4.0	SS/19	3-4-5-4		Brown/Grey mottled CLAY, some SILT (moist, stiff)						9		
3															
4	3	4.0	6.0	SS/16	4-6-6-8		Brown/Grey mottled SILT, trace CLAY (moist, stiff)						12		
5															
6	4	6.0	8.0	SS/17	5-3-4-4		Brown/Grey SILT, little CLAY (wet, medium stiff)						7		
7															
8	5	8.0	10.0	SS/*	4-3-3-3		Similar as above (wet, medium stiff)						6		
9															
10															
11															
12															
13															
14	6	13.5	15.0	SS/13	1-1-2		Grey SILT, trace CLAY, trace fine SAND (wet, soft)						3		
15	7A	15.0	16.3	SS/16	5-6-10-33		Similar as above (wet, very stiff)						16		
16	7B	16.3	17.0				Grey cmf GRAVEL, little cmf SAND, little SILT (wet, medium compact)								
17															
18															
19	8	18.5	18.6	SS/1	50@1"		Black ROCK Fragments (Shale) Split Spoon and Auger Refusal at 18.5'						50+		
20							Bottom of Boring @ 18.5'								

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: * recovery length not measured

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: *Water added to boring for coring.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.	B-565
								Page No.	2 of 2
								Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20	R-2	23.0	28.0	C/60	NQ-Core		Continued from Page 1 RQD: 60"/60" = 100% 6 Pieces, 0" Chips and Fragments 1:00 min/ft, no water loss Coring conducted in 4th gear, 1700 rpm, 700 psi down pressure. Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 6" thick), slightly weathered, thinly laminated to medium bedded, medium hard to hard. Weathered zone (~ 1/2" thick) @ 25.1'. Recovery: 60"/60" = 100% RQD: 51"/60" = 85% 21 Pieces, 0" Chips and Fragments 1.0 min/ft, no water loss Coring conducted in 4th gear, 1700 rpm, 700 psi down pressure.		85%
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-566			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/17/24			
Client: Ramboll				Date Finished		04/17/24			
Location: See Exploration Location Plan				Surface Elev.		392.2'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Al Linstruth		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: John Winks		Casing Hammer:							
Inspector:		Other:							
Drill Rig: CME 550X		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/17/24	While Drilling	2.8	4.0		
				04/17/24	Before Casing Removed	7.0	8.0		
				04/17/24	After Casing Removed	2.1	out		
				04/17/24	After Casing Removed	caved @ 4.0	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.3	SS/15	1-2-3-4		Topsoil and Organic Material (moist, medium stiff)		5
1	1B	0.3	2.0				Brown SILT, trace ROOTS (moist, medium stiff)		
2	2	2.0	4.0	SS/11	2-3-4-2		Brown SILT, little mf GRAVEL, trace cmf SAND (wet, medium stiff)		7
3									
4	3	4.0	6.0	SS/7	2-3-3-2		Dark Brown SILT and cmf GRAVEL, trace cmf SAND (wet, medium stiff)		6
5									
6	4	6.0	6.7	SS/5	8-50@3"		Dark Grey highly weathered ROCK Fragments (Shale) and SILT (wet)		50+
7									
8	5	8.0	8.3	SS/3	50@3"		Dark Grey ROCK Fragments (Shale) and ROCK Flour		50+
9							Bottom of Boring @ 8.3'		
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-567			
						Page No. 1 of 1			
						Project No. 28062			
Project Name: Micron Campus, Clay, New York						Date Started 05/10/24			
Client: Ramboll						Date Finished 05/10/24			
Location: See Exploration Location Plan						Surface Elev. 389.1'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller:	H. Lyon	Casing:	3 ¼" ID H.S.A.			Date	Time	Depth (Ft.)	Casing At (Ft.)
Driller:	K. Crandall	Casing Hammer:				05/10/24	While Drilling	0.6	4.0
Inspector:	C. O'Hara	Other:				05/10/24	Before Casing Removed	1.0	6.5
Drill Rig:	CME 45	Soil Sampler:	2" OD Split Barrel			05/10/24	After Casing Removed	1.8	out
Type:	ATV	Hammer Wt:	140 lbs.			05/10/24	After Casing Removed	caved @ 5.2	out
Rod Size:	AWJ	Hammer Fall:	30 in.						
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.3	SS/13	1-1-2-5		Topsoil and Organic Material (moist)		3
1	1B	0.3	2.0				Brown SILT, trace CLAY, trace fine SAND, trace ORGANIC MATERIAL (moist, soft)		
2	2	2.0	4.0	SS/10	8-7-4-5		Brown/Grey cmf GRAVEL, little cmf SAND, little SILT (moist, medium compact)		11
3									
4	3	4.0	6.0	SS/17	6-4-5-9		Grey cmf GRAVEL, some SILT, little cmf SAND, trace CLAY (moist, stiff)		9
5									
6	4	6.0	6.3	SS/2	50@4"		Dark Grey/Black highly weathered ROCK Fragments (Shale) (moist)		50+
7									
8	5	6.5	6.5	SS/0	50@0"		<i>Augers very hard beginning @ 6.2'. Shale fragments in tip of Split Spoon. Auger Refusal @ 6.5'</i>		50+
9							Bottom of Boring @ 6.5'		
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-568			
						Page No. 1 of 1			
						Project No. 28062			
Project Name: Micron Campus, Clay, New York						Date Started 05/13/24			
Client: Ramboll						Date Finished 05/13/24			
Location: See Exploration Location Plan						Surface Elev. 395.8'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.				Date	Time	Depth (Ft.)	Casing At (Ft.)
Driller: K. Crandall		Casing Hammer:				05/13/24	While Drilling	13.9	1.0
Inspector: C. O'Hara		Other:				05/13/24	Before Casing Removed	14.9	16.0
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel				05/13/24	After Casing Removed	7.8	out
Type: ATV		Hammer Wt: 140 lbs.				05/13/24	After Casing Removed	caved @ 8.1	out
Rod Size: AWJ		Hammer Fall: 30 in.							
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1	0.0	2.0	SS/5	1-1-1-1		Topsoil and Organic Material (moist)		2
1									
2	2	2.0	4.0	SS/14	3-5-5-5		Brown SILT, trace fine SAND, trace CLAY (moist, stiff)		10
3									
4	3	4.0	6.0	SS/12	3-2-2-3		Red/Brown SILT, little mf GRAVEL, trace cmf SAND, trace CLAY (moist, medium stiff)		4
5									
6	4	6.0	8.0	SS/17	4-6-7-8		Brown cmf SAND, some mf GRAVEL, trace SILT (moist, medium compact) <i>Augers like Cobble beginning @ 6.0'.</i>		13
7									
8	5	8.0	10.0	SS/13	6-7-8-9		Brown cmf SAND, some cmf GRAVEL, trace SILT (moist, medium compact)		15
9									
10									
11							<i>Augers hard beginning @ 11.4'</i>		
12									
13	6	13.0	14.3	SS/12	18-36-50@3"		Grey SILT, trace cmf SAND, trace CLAY (moist, hard)		50+
14									
15	7	15.0	15.4	SS/4	50@5"		Grey SILT, some mf GRAVEL, trace cmf SAND, trace CLAY (moist, hard)		50+
16	8	16.0	16.9	SS/10	38-50@5"		Dark Grey SILT, little mf GRAVEL, little CLAY, trace cmf SAND (moist, hard)		50+
17							Bottom of Boring @ 16.9'		
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-569																					
						Page No.		1 of 1																					
						Project No.		28062																					
Project Name: Micron Campus, Clay, New York						Date Started		04/26/24																					
Client: Ramboll						Date Finished		04/26/24																					
Location: See Exploration Location Plan						Surface Elev.		389.6'																					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																							
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>04/26/24</td> <td>While Drilling</td> <td>7.5</td> <td>13.0</td> </tr> <tr> <td>04/26/24</td> <td>Before Casing Removed</td> <td>6.4</td> <td>13.8</td> </tr> <tr> <td>04/26/24</td> <td>After Casing Removed</td> <td>2.8</td> <td>out</td> </tr> <tr> <td>04/26/24</td> <td>After Casing Removed</td> <td>caved @ 6.2</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	04/26/24	While Drilling	7.5	13.0	04/26/24	Before Casing Removed	6.4	13.8	04/26/24	After Casing Removed	2.8	out	04/26/24	After Casing Removed	caved @ 6.2	out				
Date	Time	Depth (Ft.)	Casing At (Ft.)																										
04/26/24	While Drilling	7.5	13.0																										
04/26/24	Before Casing Removed	6.4	13.8																										
04/26/24	After Casing Removed	2.8	out																										
04/26/24	After Casing Removed	caved @ 6.2	out																										
Driller: K. Crandall		Casing Hammer:																											
Inspector: C. O'Hara		Other:																											
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel																											
Type: ATV		Hammer Wt: 140 lbs.																											
Rod Size: AWJ		Hammer Fall: 30 in.																											
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %																				
		From	To																										
0	1A	0.0	0.7	SS/15	WH-1-6-7		Topsoil and Organic Material (moist)		7																				
1	1B	0.7	2.0				Brown SILT, trace CLAY, trace fine SAND (moist, medium stiff)																						
2	2	2.0	4.0	SS/16	6-6-5-4		Brown SILT, trace CLAY (moist, stiff)		11																				
3																													
4	3	4.0	6.0	SS/17	3-4-5-7		Grey/Brown, Similar as above (moist, stiff)		9																				
5																													
6	4	6.0	8.0	SS/16	7-5-9-5		Brown SILT, some mf GRAVEL, trace cmf SAND, trace CLAY (wet, stiff)		14																				
7																													
8	5	8.0	10.0	SS/13	2-4-3-5		<i>Augers gravelly beginning @ 7.5'</i> Grey/Black cmf SAND, some mf GRAVEL, some SILT, trace CLAY (moist, loose)		7																				
9																													
10							<i>Augers harder beginning @ 10.8'</i>																						
11																													
12																													
13	6	13.0	13.7	SS/5	14-50@1"		Dark Grey/Black highly weathered ROCK Fragments (Shale) and SILT, little cmf SAND (moist)		50+																				
14	7	13.8	13.9	SS/1	50@1"		Black ROCK Fragments (Shale) <i>Split Spoon and Auger Refusal @ 13.8'</i>		50+																				
15							Bottom of Boring @ 13.8'																						
16																													
17																													
18																													
19																													
20																													

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-570			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/13/24			
Client: Ramboll				Date Finished		05/13/24			
Location: See Exploration Location Plan				Surface Elev.		387.4'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/13/24	While Drilling	None Noted	8.0		
				05/13/24	Before Casing Removed	10.8	12.8		
				05/13/24	After Casing Removed	5.7	out		
				05/13/24	After Casing Removed	caved @ 6.0	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.9	SS/18	1-1-2-16		Topsoil and Organic Material (moist)		3
1	1B	0.9	2.0				Brown SILT, some fine SAND (moist, soft)		
2	2	2.0	4.0	SS/16	5-7-7-7		Brown SILT, trace fine SAND, trace CLAY (moist, stiff)		14
3									
4	3	4.0	6.0	SS/15	3-2-7-10		Brown/Red SILT, some cmf SAND, little cmf GRAVEL (wet, stiff)		9
5									
6	4A	6.0	6.7	SS/14	12-11-10-7		Brown cmf GRAVEL and cmf SAND, trace SILT (wet, medium compact)		21
7	4B	6.7	8.0				Grey cmf SAND and cmf GRAVEL, trace SILT (wet, medium compact)		
8	5	8.0	10.0	SS/13	5-5-6-7		Grey cmf GRAVEL and SILT, little cmf SAND (moist, medium compact)		11
9									
10							Augers hard beginning @ 10.5		
11									
12									
13	6	12.8	13.0	SS/1	50@2"		Black SHALE Fragments in tip of spoon Split Spoon and Auger Refusal @ 12.8'		50+
14							Bottom of Boring @ 13.0'		
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-571			
						Page No.		1 of 1			
						Project No.		28062			
Project Name:		Micron Campus, Clay, New York				Date Started		04/18/24			
Client:		Ramboll				Date Finished		04/18/24			
Location:		See Exploration Location Plan				Surface Elev.		391.3'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller:		Al Linstruth		Casing:		3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)
Driller:		John Winks		Casing Hammer:							
Inspector:				Other:		NQ-Core		04/18/24	While Drilling	7.5	8.0
Drill Rig:		CME 550X		Soil Sampler:		2" OD Split Barrel		04/18/24	Before Casing Removed	9.0	9.5
Type:		ATV		Hammer Wt:		140 lbs.		04/18/24	After Casing Removed	3.2	out
Rod Size:		AWJ		Hammer Fall:		30 in.		04/18/24	After Casing Removed	caved @ 7.8	out
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
		From	To								
0	1	0.0	2.0	SS/17	1-1-3-3		Brown SILT, trace CLAY (moist, medium stiff)				4
1											
2	2	2.0	4.0	SS/15	2-3-4-2		Brown/Grey SILT, trace cmf SAND (wet, medium stiff)				7
3											
4	3	4.0	6.0	SS/11	1-1-1-1		Brown SILT, trace CLAY (moist, soft)				2
5											
6	4A	6.0	7.9	SS/8	WH-1-1-37		Grey/Brown SILT and cmf GRAVEL, trace cmf SAND, trace CLAY (wet, soft)				2
7											
8	4B	7.9	8.0				Grey ROCK Fragments (Shale) and ROCK Flour)				
9	5	8.0	8.3	SS/2	50@3"		Similar as above (moist)				50+
							<i>Auger Refusal @ 9.5'. Set up to core.</i>				
10	R-1	9.5	14.5	C/56	NQ-Core		Dark Grey SHALE with interbedded DOLOSTONE layers (<1/8" - 1/4" thick), slightly weathered, laminated to medium bedded, medium hard to hard. SILT seams (1/8" - 2.0" thick) @ 10.5' - 10.7', 11.9', 12.8', 12.9' and 13.0'. Recovery: 56"/60" = 93% RQD: 42"/60" - 70% 15 Pieces, 0" Chips and Fragments 50 sec/ft, no water loss				70%
11											
12											
13											
14											
15	R-2	14.5	19.5	C/60	NQ-Core		Coring conducted in 5th gear, 2100 rpm, 700 psi down pressure. Dark Grey SHALE with interbedded DOLOSTONE layers (<1/8" - 4.0' thick), slightly weathered, thinly laminated to medium bedded, medium hard to hard. Weathered horizontal fractures (1/8' - 1" thick) @ 16.5', 16.7', 16.9', 17.0', 17.2', 17.4' - 17.5'. CALCITE veins (1/4" - 1" thick) @ 18.8' and 19.3' - 19.4'. Recovery: 60"/60" = 100% RQD: 37"/60" = 62% 15 Pieces, 4" Chips and Fragments 50 sec/ft, no water loss				62%
16											
17											
18											
19											
20							Bottom of Boring @ 19.5'				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-572																					
						Page No. 1 of 1																					
						Project No. 28062																					
Project Name: Micron Campus, Clay, New York						Date Started 04/18/24																					
Client: Ramboll						Date Finished 04/18/24																					
Location: See Exploration Location Plan						Surface Elev. 390.3'																					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																					
Driller: Al Linstruth		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>04/18/24</td> <td>While Drilling</td> <td>1.1</td> <td>4.0</td> </tr> <tr> <td>04/18/24</td> <td>Before Casing Removed</td> <td>5.9</td> <td>8.0</td> </tr> <tr> <td>04/18/24</td> <td>After Casing Removed</td> <td>None Noted</td> <td>out</td> </tr> <tr> <td>04/18/24</td> <td>After Casing Removed</td> <td>caved @</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	04/18/24	While Drilling	1.1	4.0	04/18/24	Before Casing Removed	5.9	8.0	04/18/24	After Casing Removed	None Noted	out	04/18/24	After Casing Removed	caved @	out		
Date	Time	Depth (Ft.)	Casing At (Ft.)																								
04/18/24	While Drilling	1.1	4.0																								
04/18/24	Before Casing Removed	5.9	8.0																								
04/18/24	After Casing Removed	None Noted	out																								
04/18/24	After Casing Removed	caved @	out																								
Driller: John Winks		Casing Hammer:																									
Inspector:		Other:																									
Drill Rig: CME 550X		Soil Sampler: 2" OD Split Barrel																									
Type: ATV		Hammer Wt: 140 lbs.																									
Rod Size: AWJ		Hammer Fall: 30 in.																									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %																		
		From	To																								
0	1	0.0	2.0	SS/15	1-1-4-3		Brown SILT, little cmf SAND (moist, medium stiff)		5																		
1							-----																				
2	2	2.0	4.0	SS/14	4-3-2-1		Grey/Brown cmf GRAVEL, some SILT, little cmf SAND (wet, loose)		5																		
3																											
4	3A	4.0	5.0	SS/11	1-1-31-51		Grey cmf GRAVEL and SILT, little cmf SAND (wet, compact)		32																		
5	3B	5.0	6.0				Grey highly weathered ROCK Fragments, some SILT (wet)																				
6	4	6.0	6.2	SS/2	50@2"		Grey highly weathered ROCK Fragments (moist)		50+																		
7																											
8	5	8.0	8.2	SS/2	50@2"		Similar as above (moist)		50+																		
9							Bottom of Boring @ 8.2'																				
10																											
11																											
12																											
13																											
14																											
15																											
16																											
17																											
18																											
19																											
20																											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-573					
						Page No. 1 of 1					
						Project No. 28062					
Project Name: Micron Campus, Clay, New York		Date Started 04/29/24				Date Finished 04/29/24					
Client: Ramboll		Surface Elev. 393.5'									
Location: See Exploration Location Plan											
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: H. Lyon Driller: K. Crandall Inspector: C. O'Hara Drill Rig: CME 45 Type: ATV Rod Size: AWJ		Casing: 3 ¼" ID H.S.A. Casing Hammer: Other: Soil Sampler: 2" OD Split Barrel Hammer Wt: 140 lbs. Hammer Fall: 30 in.		Date 04/29/24 04/29/24 04/29/24 04/29/24		Time While Drilling Before Casing Removed After Casing Removed After Casing Removed		Depth (Ft.) 3.8 4.0 3.5 caved @ 5.5		Casing At (Ft.) 6.0 8.7 out out	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	0.4	SS/16	1-1-2-6		Topsoil and Organic Material (moist)		3		
1	1B	0.4	2.0				Brown SILT, trace CLAY, trace fine SAND (moist, soft)				
2	2	2.0	4.0	SS/15	7-8-6-4		Brown SILT, trace CLAY (moist, stiff)		14		
3											
4	3	4.0	6.0	SS/16	4-3-3-5		Similar as above (wet, medium stiff)		6		
5											
6	4A	6.0	6.5	SS/12	6-9-12-18		Brown cmf GRAVEL, some cmf SAND, little SILT (moist, medium compact)		21		
7	4B	6.5	8.0				Black/Grey weathered ROCK Fragments (Shale), little SILT, little cmf SAND (moist)				
8	5	8.0	8.4	SS/5	50@5"		Similar as above (moist)		50+		
	6A	8.7	9.3	SS/11	22-25-50@4"		Black weathered ROCK Fragments (Shale)		50+		
9	6B	9.3	10.1				Black ROCK Fragments (Shale)				
10							Split Spoon and Auger Refusal @ 10.1'				
11							Bottom of Boring @10.1'				
12											
13											
14											
15											
16											
17											
18											
19											
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-574							
						Page No. 1 of 1							
						Project No. 28062							
Project Name: Micron Campus, Clay, New York						Date Started 04/29/24							
Client: Ramboll						Date Finished 04/29/24							
Location: See Exploration Location Plan						Surface Elev. 389.1'							
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS							
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.				Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: K. Crandall		Casing Hammer:				04/29/24		While Drilling		None Noted		4.0	
Inspector: C. O'Hara		Other:				04/29/24		Before Casing Removed		3.0		5.2	
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel				04/29/24		After Casing Removed		1.6		out	
Type: ATV		Hammer Wt: 140 lbs.				04/29/24		After Casing Removed		caved @ 4.7		out	
Rod Size: AWJ		Hammer Fall: 30 in.											
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%			SPT "N" or RQD %	
0	1A	0.0	0.6	SS/13	1-WH-2-2		Topsoil and Organic Material (moist)					2	
1	1B	0.6	2.0				Dark Brown CLAY, some SILT, trace cmf SAND, trace fine GRAVEL (moist, soft)						
2	2	2.0	4.0	SS/	1-1-2-4		Dark Brown SILT, little CLAY, little cmf SAND, trace fine GRAVEL (moist, soft)					3	
3													
4	3	4.0	4.6	SS/9	17-50@3"		Dark Grey highly weathered ROCK Fragments (Shale) and SILT (wet)					50+	
5	4	5.2	5.3	SS/1	50@1"		Dark Grey ROCK Fragments (Shale) - Auger Refusal @ 5.2' (Boring B-574, See Remark 1)					50+	
6	5	5.1	5.3	SS/1	50@3"		Dark Grey ROCK Fragments (Shale) - Auger Refusal @ 5.1' (Boring B-574A, See Remark 1)					50+	
7							Bottom of Boring @ 5.3'						
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: 1. Offset 7.0' west to B-574A and sampled at 5.1' auger refusal.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-575			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/10/24			
Client: Ramboll				Date Finished		05/10/24			
Location: See Exploration Location Plan				Surface Elev.		385.8'			
METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS					
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/10/24	While Drilling	None Noted	6.0		
				05/10/24	Before Casing Removed	None Noted	8.2		
				05/10/24	After Casing Removed	None Noted	out		
				05/10/24	After Casing Removed	caved @	out		
LOG OF BORING SAMPLES				VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.7	SS/16	1-WH-2-4		Topsoil and Organic Material (moist)		2
1	1B	0.7	2.0				Brown CLAY, some SILT, trace fine SAND (moist, soft)		
2	2	2.0	4.0	SS/12	3-4-7-16		Brown/Grey SILT and highly weathered ROCK Fragments (Shale) (moist, stiff)		11
3									
4	3	4.0	6.0	SS/21	6-8-8-10		Dark Grey, Similar as above (moist, very stiff)		16
5									
6	4A	6.0	7.0	SS/15	12-12-50@3"		Similar as above (moist, hard)		50+
7	4B	7.0	7.3				Grey ROCK Fragments (Shale)		
8	5	8.0	8.2	SS/1	50@2"		<i>Augers like Rock @ 7.9'</i> Similar as above - <i>Split Spoon and Auger Refusal @ 8.2'</i>		
9							Bottom of Boring @ 8.2'		
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-576			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/13/24			
Client: Ramboll				Date Finished		05/13/24			
Location: See Exploration Location Plan				Surface Elev.		385.4'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/13/24	While Drilling	None Noted	12.5		
				05/13/24	Before Casing Removed	None Noted	12.5		
				05/13/24	After Casing Removed	2.4	out		
				05/13/24	After Casing Removed	caved @ 2.8	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.8	SS/16	1-1-2-2		Topsoil and Organic Material (moist)		3
1	1B	0.8	2.0				Brown SILT, some cmf SAND, trace fine GRAVEL (wet, soft)		
2	2	2.0	4.0	SS/14	2-4-2-6		Brown SILT, little cmf SAND, trace fine GRAVEL (wet, medium stiff)		6
3									
4	3	4.0	6.0	SS/17	10-8-9-10		Brown cmf SAND and SILT, trace fine GRAVEL (wet, medium compact)		17
5									
6	4	6.0	8.0	SS/13	10-16-20-22		Grey SILT and cmf SAND, trace mf GRAVEL (moist, hard)		36
7							Augers hard beginning @ 7.0'		
8	5	8.0	8.3	SS/2	50@3"		Brown/Grey SILT, little mf GRAVEL, little cmf SAND (wet, hard)		50+
9							Augers very hard beginning @ 8.0'		
10									
11							Augers like weathered Rock beginning @ 10.5		
12									
13	6	12.5	12.7	SS/1	50@2"		Black SHALE Fragments		50+
14							Bottom of Boring @ 12.7'		
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-578			
						Page No.		1 of 1			
						Project No.		28062			
Project Name: Micron Campus, Clay, New York						Date Started		04/26/24			
Client: Ramboll						Date Finished		04/26/24			
Location: See Exploration Location Plan						Surface Elev.		383.4'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: K. Crandall		Casing Hammer:									
Inspector: C. O'Hara		Other:									
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel									
Type: ATV		Hammer Wt: 140 lbs.									
Rod Size: AWJ		Hammer Fall: 30 in.		04/26/24		While Drilling		2.8		4.0	
04/26/24		Before Casing Removed		04/26/24		After Casing Removed		1.2		out	
04/26/24		After Casing Removed		04/26/24		After Casing Removed		caved @ 2.3		out	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
		From	To								
0	1A	0.0	0.7	SS/12	WH-1-1-5		Topsoil and Organic Material (moist)				2
1	1B	0.7	2.0				Brown/Grey cmf GRAVEL, some SILT, little cmf SAND (moist, very loose)				
2	2	2.0	4.0	SS/14	6-8-8-8		Brown cmf GRAVEL, some cmf SAND, little SILT (moist, medium compact)				16
3											
4	3	4.0	6.0	SS/11	12-13-14-15		Brown/Grey cmf GRAVEL, some ROCK Fragments (Shale), little SILT, trace cmf SAND (wet, medium compact)				27
5											
6	4	6.0	8.0	SS/16	9-8-12-12		Grey cmf GRAVEL, little ROCK Fragments (Shale), little SILT, trace cmf SAND (wet, medium compact)				20
7							Augered harder beginning @ 7.4'				
8	5A	8.0	9.1	SS/21	18-22-27-50@3"		Brown/Grey cmf GRAVEL and SILT, little cmf SAND (moist, compact)				49
9	5B	9.1	9.8				Grey/Black highly weathered ROCK Fragments (Shale) (moist)				
10	6	9.8	9.8	SS/0	50@0"		Split Spoon and Auger Refusal @ 9.8'				50+
11							Bottom of Boring @ 9.8'				
12											
13											
14											
15											
16											
17											
18											
19											
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-583																			
						Page No. 1 of 1																			
						Project No. 28062																			
Project Name: Micron Campus, Clay, New York						Date Started 04/29/24																			
Client: Ramboll						Date Finished 04/29/24																			
Location: See Exploration Location Plan						Surface Elev. 388.7'																			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																			
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>04/29/24</td> <td>While Drilling</td> <td>2.0</td> <td>2.0</td> </tr> <tr> <td>04/29/24</td> <td>Before Casing Removed</td> <td>2.1</td> <td>7.5</td> </tr> <tr> <td>04/29/24</td> <td>After Casing Removed</td> <td>1.9</td> <td>out</td> </tr> <tr> <td>04/29/24</td> <td>After Casing Removed</td> <td>caved @ 4.5</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	04/29/24	While Drilling	2.0	2.0	04/29/24	Before Casing Removed	2.1	7.5	04/29/24	After Casing Removed	1.9	out	04/29/24	After Casing Removed	caved @ 4.5	out
Date	Time	Depth (Ft.)	Casing At (Ft.)																						
04/29/24	While Drilling	2.0	2.0																						
04/29/24	Before Casing Removed	2.1	7.5																						
04/29/24	After Casing Removed	1.9	out																						
04/29/24	After Casing Removed	caved @ 4.5	out																						
Driller: K. Crandall		Casing Hammer:																							
Inspector: C. O'Hara		Other:																							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel																							
Type: ATV		Hammer Wt: 140 lbs.																							
Rod Size: AWJ		Hammer Fall: 30 in.																							
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %															
		From	To																						
0	1A	0.0	0.7	SS/11	WH-1-2-6		<u>Topsoil and Organic Material (moist)</u>		3																
1	1B	0.7	2.0				<u>Brown SILT, little CLAY, trace ORGANIC MATERIAL (moist, soft)</u>																		
2	2	2.0	4.0	SS/13	4-6-7-5		Grey/Red/Brown cmf GRAVEL, some cmf SAND, little SILT (moist, medium compact)		13																
3																									
4	3	4.0	6.0	SS/12	5-4-4-8		<i>Augers like Cobble starting @ 3.5'</i> Grey/Brown cmf GRAVEL, some SILT, little cmf SAND (moist, loose)		8																
5																									
6	4	6.0	6.7	SS/8	8-50@2"		Grey/Brown cmf GRAVEL, some cmf SAND, some SILT (wet, very compact)		50+																
7																									
8	5	7.5	7.5	SS/0	50@0"		<i>Split Spoon and Auger Refusal @ 7.5'</i>		50+																
9							Bottom of Boring @ 7.5'																		
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-584			
						Page No. 1 of 1			
						Project No. 28062			
Project Name: Micron Campus, Clay, New York						Date Started 04/29/24			
Client: Ramboll						Date Finished 04/29/24			
Location: See Exploration Location Plan						Surface Elev. 393.5'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller:	K. Crandall	Casing:	3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)	
Driller:		Casing Hammer:			04/29/24	While Drilling	None Noted	8.0	
Inspector:	C. O'Hara	Other:			04/29/24	Before Casing Removed	7.1	11.9	
Drill Rig:	CME 45	Soil Sampler:	2" OD Split Barrel		04/29/24	After Casing Removed	4.4	out	
Type:	ATV	Hammer Wt:	140 lbs.		04/29/24	After Casing Removed	caved @ 8.8	out	
Rod Size:	AWJ	Hammer Fall:	30 in.						
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5	SS/12	WH-1-1-5		Topsoil and Organic Material (moist)		2
1	1B	0.5	2.0				Brown SILT, trace CLAY (moist, soft)		
2	2	2.0	4.0	SS/18	6-5-4-5		Similar as above (moist, stiff)		9
3									
4	3	4.0	6.0	SS/16	5-9-10-12		Brown SILT, trace CLAY, trace fine SAND (moist, very stiff)		19
5									
6	4	6.0	8.0	SS/21	11-15-20-21		Similar as above (moist, hard)		35
7									
8	5A	8.0	8.4	SS/11	13-21-34-41		Augered harder beginning @ 7.5'		55
9	5B	8.4	10.0				Brown SILT, trace CLAY (moist)		
10							Brown/Grey cmf GRAVEL, some cmf SAND, trace SILT (moist, very compact)		
11							Augers gravelly beginning @ 8.5'		
12	6	11.9	12.8	SS/2	41-50@4"		Augers like cobble starting @ 9.5'		50+
13							Black ROCK Fragments (Shale) - Split Spoon Refusal @ 12.8'		
14							Bottom of Boring @ 12.8'		
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-585																					
						Page No.		1 of 2																					
						Project No.		28062																					
Project Name:		Micron Campus, Clay, New York				Date Started		05/01/24																					
Client:		Ramboll				Date Finished		05/01/24																					
Location:		See Exploration Location Plan				Surface Elev.		394.1'																					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																							
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>05/01/24</td> <td>While Drilling</td> <td>None Noted</td> <td>11.0</td> </tr> <tr> <td>05/01/24</td> <td>Before Casing Removed</td> <td>None Noted</td> <td>21.0</td> </tr> <tr> <td>05/01/24</td> <td>After Casing Removed</td> <td>3.6 *</td> <td>out</td> </tr> <tr> <td>05/01/24</td> <td>After Casing Removed</td> <td>caved @ 11.4</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	05/01/24	While Drilling	None Noted	11.0	05/01/24	Before Casing Removed	None Noted	21.0	05/01/24	After Casing Removed	3.6 *	out	05/01/24	After Casing Removed	caved @ 11.4	out				
Date	Time	Depth (Ft.)	Casing At (Ft.)																										
05/01/24	While Drilling	None Noted	11.0																										
05/01/24	Before Casing Removed	None Noted	21.0																										
05/01/24	After Casing Removed	3.6 *	out																										
05/01/24	After Casing Removed	caved @ 11.4	out																										
Driller: Ryan Casatelli		Casing Hammer:																											
Inspector:		Other: NQ-Core																											
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel																											
Type: ATV		Hammer Wt: 140 lbs.																											
Rod Size: AWJ		Hammer Fall: 30 in.																											
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %																				
		From	To																										
0	1A	0.0	1.0	SS/19	1-1-3-5		Topsoil and Organic Material (moist)		4																				
1	1B	1.0	2.0				Brown/Grey SILT, little CLAY, trace ROOTS (moist, medium stiff)																						
2	2	2.0	4.0	SS/20	5-6-7-6		Brown/Grey SILT, trace CLAY (moist, stiff)		13																				
3																													
4	3	4.0	6.0	SS/23	6-6-5-6		Brown SILT, trace CLAY (wet, stiff)		11																				
5																													
6	4	6.0	8.0	SS/20	2-3-5-11		Similar as above (wet, stiff)		8																				
7																													
8	5	8.0	10.0	SS/14	9-11-10-5		Brown/Grey weathered ROCK Fragments (Shale), little SILT, trace cmf SAND (moist)		21																				
9																													
10																													
11																													
12	R-1	11.0	16.0	C/58	NQ-Core		Dark Grey SHALE with interbedded DOLOSTONE layers (<1/8" - 1/2" thick), slightly to moderately weathered, thinly laminated to thinly bedded, medium hard. <i>Broken and fractured zones @ 11.8'-12.3', 12.9'-13.3', 13.8'-14.2', and 15.0'-15.2'.</i> <i>Weathered zones @ 12.6', 13.4'-13.5' and 14.2'-14.4'.</i> Recovery: 58"/60" = 97% RQD: 20"/60" = 33% 11 Pieces, 13" Chips and Fragments 1:00 min/ft, no water loss		33%																				
13																													
14																													
15																													
16	R-2	16.0	21.0	C/60	NQ-Core		Coring conducted in 4th gear, 1700 rpm, 700 psi down pressure. Dark Grey SHALE with interbedded DOLOSTONE layers (<1/8" - 2.0" thick), slightly to moderately weathered, thinly laminated to thinly bedded, medium hard to hard. <i>Broken and fractured zones @ 16.7'-16.8', 17.2'-17.9', 18.7'-18.8', and 19.9'-20.0'.</i> <i>Weathered zone (3/4" thick) @ 19.3'.</i> Recovery: 60"/60" = 100% RQD: 36"/60" = 60%		60%																				
17																													
18																													
19																													
20							Continued on Page 2																						

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: * Water added to boring during coring.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No. B-585
						Page No. 2 of 2			
						Project No. 28062			
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) FromTo		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20							Continued from Page 1		
21							13 Pieces, 10" Chips and Fragments		
22							1:00 min/ft, no water loss		
23							Coring conducted in 4th gear, 1700 rpm, 700 psi down pressure.		
24							Bottom of Boring @ 21.0'		
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-586			
						Page No. 1 of 1			
						Project No. 28062			
Project Name: Micron Campus, Clay, New York						Date Started 04/29/24			
Client: Ramboll						Date Finished 04/29/24			
Location: See Exploration Location Plan						Surface Elev. 388.7'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller: K. Crandall		Casing: 3 ¼" ID H.S.A.		Date		Time	Depth (Ft.)	Casing At (Ft.)	
Driller:		Casing Hammer:		04/29/24		While Drilling	2.0	8.0	
Inspector: C. O'Hara		Other:		04/29/24		Before Casing Removed	4.0	10.7	
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel		04/29/24		After Casing Removed	1.8	out	
Type: ATV		Hammer Wt: 140 lbs.		04/29/24		After Casing Removed	caved @ 7.0	out	
Rod Size: AWJ		Hammer Fall: 30 in.							
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.4	SS/17	1-WH-2-3		Topsoil and Organic Material (moist)		2
1	1B	0.4	2.0				Brown SILT, little CLAY, trace cmf SAND, trace ORGANIC MATERIAL (moist, soft)		
2	2	2.0	4.0	SS/14	5-9-8-8		Brown SILT, trace CLAY, trace fine SAND (moist, very stiff)		17
3									
4	3	4.0	6.0	SS/15	7-9-9-16		Brown cmf GRAVEL, some SILT, little cmf SAND (moist, medium compact) <i>Augers harder beginning @ 5.2'</i>		18
5									
6	4	6.0	8.0	SS/15	15-17-19-15		Brown cmf GRAVEL and cmf SAND, trace SILT (moist, compact)		36
7									
8	5	8.0	8.6	SS/7	25-50@1"		Grey highly weathered ROCK Fragments (Shale) (moist)		50+
9									
10	6	10.7	10.8	SS/1	50@1"		Dark Grey ROCK Fragments (Shale) - <i>Auger Refusal @ 10.7'</i>		50+
11							Bottom of Boring @ 10.8'		
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-587					
				Page No.		1 of 1					
				Project No.		28062					
Project Name: Micron Campus, Clay, New York				Date Started		05/02/24					
Client: Ramboll				Date Finished		05/02/24					
Location: See Exploration Location Plan				Surface Elev.		385.0'					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: K. Crandall		Casing Hammer:		05/02/24		While Drilling		1.8		6.0	
Inspector: C. O'Hara		Other:		05/02/24		Before Casing Removed		2.8		11.5	
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel		05/02/24		After Casing Removed		2.8		out	
Type: ATV		Hammer Wt: 140 lbs.		05/02/24		After Casing Removed		caved @ 5.5		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	0.3	SS/14	WH-WH-4-9		Topsoil and Organic Material (moist)				4
1	1B	0.3	2.0				Brown/Grey SILT, trace CLAY, trace fine SAND (moist, medium stiff)				
2	2	2.0	4.0	SS/16	8-8-9-7		Brown/Grey mottled SILT, trace CLAY (moist, very stiff)				17
3											
4	3	4.0	6.0	SS/15	7-8-7-7		Brown SILT, little fine SAND, trace CLAY (wet, stiff)				15
5											
6	4	6.0	8.0	SS/24	4-5-4-4		Brown SILT, trace fine SAND, trace CLAY (wet, stiff)				9
7											
8	5A	8.0	8.6	SS/14	6-14-16-10		Similar as above (wet, hard)				30
9	5B	8.6	10.0				Black/Brown weathered ROCK Fragments (Shale), little cmf SAND, trace SILT (moist) Augered gravelly beginning @ 8.3'				
10											
11							Augered harder beginning @ 11.4'				
12	6	11.5	11.5	SS/0	50@0"		Split Spoon and Auger Refusal @ 11.5'				50+
13							Bottom of Boring @ 11.5'				
14											
15											
16											
17											
18											
19											
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-588																					
						Page No.		1 of 2																					
						Project No.		28062																					
Project Name: Micron Campus, Clay, New York						Date Started		05/02/24																					
Client: Ramboll						Date Finished		05/02/24																					
Location: See Exploration Location Plan						Surface Elev.		384.4'																					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																							
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>05/02/24</td> <td>While Drilling</td> <td>4.6</td> <td>8.0</td> </tr> <tr> <td>05/02/24</td> <td>Before Casing Removed</td> <td>None Noted</td> <td>21.0</td> </tr> <tr> <td>05/02/24</td> <td>After Casing Removed</td> <td>2.8 *</td> <td>out</td> </tr> <tr> <td>05/02/24</td> <td>After Casing Removed</td> <td>caved @ 12.0</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	05/02/24	While Drilling	4.6	8.0	05/02/24	Before Casing Removed	None Noted	21.0	05/02/24	After Casing Removed	2.8 *	out	05/02/24	After Casing Removed	caved @ 12.0	out				
Date	Time	Depth (Ft.)	Casing At (Ft.)																										
05/02/24	While Drilling	4.6	8.0																										
05/02/24	Before Casing Removed	None Noted	21.0																										
05/02/24	After Casing Removed	2.8 *	out																										
05/02/24	After Casing Removed	caved @ 12.0	out																										
Driller: Ryan Casatelli		Casing Hammer:																											
Inspector:		Other: NQ-Core																											
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel																											
Type: ATV		Hammer Wt: 140 lbs.																											
Rod Size: AWJ		Hammer Fall: 30 in.																											
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %																				
		From	To																										
0	1	0.0	2.0	SS/12	WH-1-3-4		Brown SILT, little ROOTS (wet, medium stiff)		4																				
1																													
2	2	2.0	4.0	SS/16	5-5-6-7		Brown/Grey SILT, trace CLAY (wet, stiff)		11																				
3																													
4	3	4.0	6.0	SS/16	6-4-6-5		Brown/Grey SILT, trace CLAY (wet, stiff)		10																				
5																													
6	4	6.0	8.0	SS/15	3-3-4-5		Brown/Grey SILT, trace fine SAND, trace CLAY (wet, medium stiff)		7																				
7																													
8	5	8.0	10.0	SS/12	9-10-8-5		Dark Grey highly weathered ROCK Fragments (Shale)		18																				
9																													
10																													
11																													
12	R-1	11.0	16.0	C/60	NQ-Core		Auger Refusal @ 11.0. Set up to core.		83%																				
13							11.0' - 14.2': Dark Grey SHALE, slightly weathered, laminated to thickly bedded, medium hard. 14.2' - 16.0': Dark Grey DOLOSTONE, slightly weathered, thinly laminated to thinly bedded, hard. Weathered fractures @ 14.7' and 15.2'. Broken and horizontal fractured zone @ 11.4' - 11.7' and 11.9'. Recovery: 60"/60" = 100% RQD: 50"/60" = 83%																						
14							16 Pieces, 4" Chips and Fragments																						
15							1:00 min/ft, no water loss																						
16	R-2	16.0	21.0	C/60	NQ-Core		Coring conducted in 4th gear, 1500 rpm, 700 psi down pressure. Dark Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 3.0" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard. Recovery: 60"/60" = 100% RQD: 60"/60" = 100%		100%																				
17							10 Pieces, 0" Chips and Fragments																						
18							1:00 min/ft, no water loss																						
19							Coring conducted in 4th gear, 1500 rpm, 700 psi down pressure.																						
20							Continued on Page 2																						

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: *Water added to boring for coring



6035 Corporate Drive
East Syracuse, NY 13057
Phone: 315-701-0522

SUBSURFACE EXPLORATION TEST BORING LOG

Boring No.**B-588****Page No.**

2 of 2

Project No.

28062

LOG OF BORING SAMPLES**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20							Continued from Page 1		
21							Bottom of Boring @ 21.0'		
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-591			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/24/24			
Client: Ramboll				Date Finished		04/24/24			
Location: See Exploration Location Plan				Surface Elev.		384.1'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/24/24	While Drilling	2.0	13.0		
				04/24/24	Before Casing Removed	7.5	21.1		
				04/24/24	After Casing Removed	3.5	out		
				04/24/24	After Casing Removed	caved @ 8.0	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.7	SS/12	1-1-1-2		Topsoil and Organic Material (moist)		2
1	1B	0.7	2.0				Brown SILT, trace CLAY (moist, soft)		
2	2	2.0	4.0	SS/16	3-3-3-3		Similar as above (moist, medium stiff)		6
3									
4	3	4.0	6.0	SS/11	1-2-4-5		Brown SILT, trace fine SAND, trace CLAY (wet, medium stiff)		6
5									
6	4	6.0	8.0	SS/16	8-8-7-7		Brown SILT, trace CLAY (wet, stiff)		15
7									
8	5	8.0	10.0	SS/19	3-4-5-3		Grey/Brown, Similar as above (wet, stiff)		9
9									
10									
11									
12									
13	6A	13.0	13.5	SS/12	1-3-4-3		Grey/Brown SILT, little CLAY (wet, medium stiff)		7
14	6B	13.5	15.0				Brown/Red CLAY, some SILT, little cmf SAND, trace mf GRAVEL (wet, medium stiff)		
15									
16									
17									
18	7A	18.0	18.5	SS/8	3-9-7-1		Brown/Grey SILT, little CLAY, trace cmf SAND (moist)		16
19	7B	18.5	20.0				Highly weathered ROCK Fragments (Shale), little SILT, trace cmf SAND (wet)		
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.	B-591
								Page No.	2 of 2
								Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20	8	21.1	21.2	SS/1	50@1"		Continued from Page 1 <i>Augers harder beginning @ 20.6'</i> Black Rock Fragments (Shale) <i>Split Spoon and Auger Refusal @ 21.1'</i>		50+
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-592																					
						Page No.		1 of 1																					
						Project No.		28062																					
Project Name:		Micron Campus, Clay, New York				Date Started		05/02/24																					
Client:		Ramboll				Date Finished		05/02/24																					
Location:		See Exploration Location Plan				Surface Elev.		383.0'																					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																							
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>05/02/24</td> <td>While Drilling</td> <td>2.8</td> <td>6.0</td> </tr> <tr> <td>05/02/24</td> <td>Before Casing Removed</td> <td>6.7</td> <td>16.5</td> </tr> <tr> <td>05/02/24</td> <td>After Casing Removed</td> <td>4.3</td> <td>out</td> </tr> <tr> <td>05/02/24</td> <td>After Casing Removed</td> <td>caved @ 6.0</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	05/02/24	While Drilling	2.8	6.0	05/02/24	Before Casing Removed	6.7	16.5	05/02/24	After Casing Removed	4.3	out	05/02/24	After Casing Removed	caved @ 6.0	out				
Date	Time	Depth (Ft.)	Casing At (Ft.)																										
05/02/24	While Drilling	2.8	6.0																										
05/02/24	Before Casing Removed	6.7	16.5																										
05/02/24	After Casing Removed	4.3	out																										
05/02/24	After Casing Removed	caved @ 6.0	out																										
Driller: K. Crandall		Casing Hammer:																											
Inspector: C. O'Hara		Other:																											
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel																											
Type: ATV		Hammer Wt: 140 lbs.																											
Rod Size: AWJ		Hammer Fall: 30 in.																											
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %																				
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%																						
0	1A	0.0	0.6	SS/17	WH-1-1-4		Topsoil and Organic Material (moist)		2																				
1	1B	0.6	2.0				Brown SILT, trace CLAY, trace fine SAND, trace ORGANIC MATERIAL (moist, soft)																						
2	2	2.0	4.0	SS/15	4-4-4-6		Brown SILT and cmf SAND, trace fine GRAVEL (wet, stiff)		8																				
3																													
4	3	4.0	6.0	SS/13	6-7-7-6		Brown/Grey mottled SILT, trace CLAY, trace fine SAND (wet, stiff)		14																				
5																													
6	4	6.0	8.0	SS/11	8-8-10-7		Similar as above (wet, very stiff)		18																				
7																													
8	5	8.0	10.0	SS/14	3-3-3-4		Grey, Similar as above (wet, medium stiff)		6																				
9																													
10																													
11																													
12																													
13	6	13.0	15.0	SS/8	7-4-4-3		Grey cmf GRAVEL, little SILT, little cmf SAND (wet, loose)		8																				
14																													
15																													
16	7	16.5	16.5	SS/0	50@0"		<i>Augers harder beginning @ 16.2'</i> <i>Split Spoon and Auger Refusal @ 16.5'</i>		50+																				
17							Bottom of Boring @ 16.5'																						
18																													
19																													
20																													

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-593					
				Page No.		1 of 1					
				Project No.		28062					
Project Name: Micron Campus, Clay, New York				Date Started		04/29/24					
Client: Ramboll				Date Finished		04/30/24					
Location: See Exploration Location Plan				Surface Elev.		392.4'					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: K. Crandall		Casing Hammer:		04/29/24		While Drilling		2.1		6.0	
Inspector: C. O'Hara		Other:		04/30/24		Before Casing Removed		6.0		13.0	
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel		04/30/24		After Casing Removed		4.5		out	
Type: ATV		Hammer Wt: 140 lbs.		04/30/24		After Casing Removed		caved @ 6.3		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	0.7	SS/14	WR-2-3-4		Topsoil and Organic Material (moist)				5
1	1B	0.7	2.0				Brown SILT, trace CLAY, trace fine SAND (moist, medium stiff)				
2	2	2.0	4.0	SS/12	5-6-7-6		Brown/Grey mottled SILT, trace CLAY (moist, stiff)				13
3											
4	3	4.0	6.0	SS/13	4-4-2-2		Brown SILT, trace CLAY (moist, medium stiff)				6
5											
6	4	6.0	8.0	SS/16	4-5-6-7		Similar as above (wet, stiff)				11
7											
8	5	8.0	10.0	SS/15	12-14-16-11		Brown SILT, trace CLAY, trace cmf SAND (moist, hard)				30
9											
10											
11							Augers harder beginning @ 11.0'				
12											
13	6A	13.0	14.8	SS/11	14-12-8-11		Brown CLAY, some SILT, trace cmf SAND (wet, very stiff)				20
14	6B	14.8	15.0	SS/11			Black cmf SAND, some SILT (wet)				
15											
16	7	16.0	16.1	SS/1	50@2"		Black ROCK Fragments (Shale) - Auger Refusal @ 16.0'				50+
17							Bottom of Boring @ 16.2'				
18											
19											
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-594																					
						Page No.		1 of 2																					
						Project No.		28062																					
Project Name:		Micron Campus, Clay, New York				Date Started		05/01/24																					
Client:		Ramboll				Date Finished		05/02/24																					
Location:		See Exploration Location Plan				Surface Elev.		392.9'																					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																							
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>05/02/24</td> <td>While Drilling</td> <td>9.3</td> <td>13.5</td> </tr> <tr> <td>05/02/24</td> <td>Before Casing Removed</td> <td>None Noted</td> <td>26.5</td> </tr> <tr> <td>05/02/24</td> <td>After Casing Removed</td> <td>3.4 *</td> <td>out</td> </tr> <tr> <td>05/02/24</td> <td>After Casing Removed</td> <td>caved @ 7.9</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	05/02/24	While Drilling	9.3	13.5	05/02/24	Before Casing Removed	None Noted	26.5	05/02/24	After Casing Removed	3.4 *	out	05/02/24	After Casing Removed	caved @ 7.9	out				
Date	Time	Depth (Ft.)	Casing At (Ft.)																										
05/02/24	While Drilling	9.3	13.5																										
05/02/24	Before Casing Removed	None Noted	26.5																										
05/02/24	After Casing Removed	3.4 *	out																										
05/02/24	After Casing Removed	caved @ 7.9	out																										
Driller: Ryan Casatelli		Casing Hammer:																											
Inspector:		Other: NQ-Core																											
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel																											
Type: ATV		Hammer Wt: 140 lbs.																											
Rod Size: AWJ		Hammer Fall: 30 in.																											
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %																				
		From	To																										
0	1A	0.0	1.0	SS/17	WH-WH-2-3		Topsoil and Organic Material (moist)		2																				
1	1B	1.0	2.0				Brown/Grey SILT, little CLAY (moist, soft)																						
2	2	2.0	4.0	SS/16	3-4-3-4		Brown SILT, little CLAY (moist, medium stiff)		7																				
3																													
4	3	4.0	6.0	SS/23	4-5-6-9		Brown SILT, trace CLAY (wet, stiff)		11																				
5																													
6	4	6.0	8.0	SS/20	6-8-8-10		Brown SILT, trace CLAY (wet, very stiff)		16																				
7																													
8	5	8.0	10.0	SS/19	5-8-8-8		Similar as above (wet, very stiff)		16																				
9																													
10																													
11																													
12																													
13	6	13.5	15.0	SS/18	2-2-16		Grey cmf SAND, some SILT, trace fine GRAVEL (wet, medium compact)		18																				
14																													
15																													
16																													
17																													
18	7	18.5	19.1	SS/6	26-50@1"		Dark Grey highly weathered ROCK Fragments (Shale) (wet)		50+																				
19							Split Spoon and Auger Refusal @ 19.5. Set up to core.																						
20							Continued on Page 2																						

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: *Water added to boring for coring.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.	B-594
								Page No.	2 of 2
								Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20	R-1	19.5	24.5	C/60	NQ-Core		Continued from Page 1 19.5' - 22.0': Dark Grey SHALE, slightly weathered, laminated to medium bedded, medium hard. 22.0' - 24.5': DOLOSTONE with interbedded Shale layers (1/8" - 2" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard. SILT seam (1/4" thick) @ 19.8'. Broken and fractured zones @ 25.7' - 25.8' and 26.5' - 26.7'. Recovery: 60"/60" = 100% RQD: 29"/60" = 48% 27 Pieces, 0" Chips and Fragments 1:00 min/ft, no water loss		48%
21									
22									
23									
24									
25	R-2	24.5	29.5	C/60	NQ-Core		Coring conducted in 4th gear, 1500 rpm, 700 psi down pressure. Dark Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 3.0" thick), slightly weathered, thinly laminated to medium bedded, medium hard to hard. Recovery: 60"/60" = 100% RQD: 43"/60" = 72% 7 Pieces, 5" Chips and Fragments 1:00 min/ft, no water loss Coring conducted in 4th gear, 1500 rpm, 700 psi down pressure. Bottom of Boring @ 29.5'		72%
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-595			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/02/24			
Client: Ramboll				Date Finished		05/03/24			
Location: See Exploration Location Plan				Surface Elev.		390.4'			
METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS					
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector:		Other: NQ-Core							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/02/24	While Drilling	0.0	18.5		
				05/03/24	Before Casing Removed	None Noted	28.6		
				05/03/24	After Casing Removed	2.7	out		
				05/03/24	After Casing Removed	caved @ 13.0	out		
LOG OF BORING SAMPLES				VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/15	WH-2-3-4		Topsoil and Organic Material (moist)		5
1	1B	0.5	2.0				Light Brown SILT, trace CLAY, trace fine SAND (moist, medium stiff)		
2	2	2.0	4.0	SS/17	6-6-7-7		Brown SILT, trace fine SAND, trace CLAY (wet, stiff)		13
3									
4	3	4.0	6.0	SS/16	5-6-6-8		Brown SILT, trace fine SAND, trace CLAY (wet, stiff)		12
5									
6	4	6.0	8.0	SS/16	6-6-8-8		Similar as above (wet, stiff)		14
7									
8	5	8.0	10.0	SS/20	5-7-8-7		Brown/Grey, similar as above (wet, very stiff)		15
9									
10									
11									
12									
13	6	13.5	15.0	SS/12	8-6-7		Grey SILT, trace CLAY (wet, stiff)		13
14									
15									
16									
17									
18	7	18.5	18.6	SS/1	50@1"		Augers harder beginning @ 18.0'		50+
19							Grey highly weathered ROCK Fragments (Shale) (wet)		
							Split Spoon and Auger Refusal @ 18.6. Set up to core.		
	R-1	18.6	23.6	C/59	NQ-Core		Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 3.0"		93%
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: *Water added to boring for coring.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.	B-595
								Page No.	2 of 2
								Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20	R-2	23.6	28.6	C/58	NQ-Core		Continued from Page 1 thick), slightly weathered, thinly laminated to medium bedded, medium hard to hard. <i>SILT seam (<1/8" thick) @ 23.0'.</i> Recovery: 59"/60" = 98% RQD: 56"/60" = 93% 21 Pieces, 0" Chips and Fragments 1:00 min/ft, no water loss Coring conducted in 4th gear, 1700 rpm, 700 psi down pressure. Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 5.0" thick), slightly weathered, thinly laminated to medium bedded, medium hard to hard. Broken and fractured zones @ 24.9', 25.1' and 27.0' - 27.2'. Recovery: 58"/60" = 97% RQD: 49"/60" = 82% 12 Pieces, 4" Chips and Fragments 1:00 min/ft, no water loss Coring conducted in 4th gear, 1700 rpm, 700 psi down pressure.		82%
21									
22									
23									
24									
25									
26									
27									
28									
29									
30							Bottom of Boring @ 28.6'		
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-596			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/19/24			
Client: Ramboll				Date Finished		04/19/24			
Location: See Exploration Location Plan				Surface Elev.		391.7'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector: Chris O'Hara		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/19/24	While Drilling	11.3	13.5		
				04/19/24	Before Casing Removed	14.4	22.2		
				04/19/24	After Casing Removed	4.8	out		
				04/19/24	After Casing Removed	caved @ 8.6	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/15	1-1-4-3		Topsoil and Organic Material (moist)		5
1	1B	0.5	2.0				Brown/Grey mottled SILT, little CLAY, trace ORGANIC MATERIAL (moist, medium stiff)		
2	2	2.0	4.0	SS/19	3-6-5-6		Similar as above (moist, stiff)		11
3									
4	3	4.0	6.0	SS/14	4-4-4-2		Grey/Brown CLAY, some SILT, trace cmf SAND (moist, medium stiff)		8
5									
6	4	6.0	8.0	SS/13	3-5-5-4		Brown SILT, trace CLAY (moist, stiff)		10
7									
8	5	8.0	10.0	SS/12	4-7-6-7		Similar as above (wet, stiff)		13
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/11	3-4-7		Brown SILT, trace CLAY, trace mf GRAVEL, trace cmf SAND (wet, stiff)		11
15									
16									
17									
18									
19	7	18.5	20.0	SS/10	5-15-17		Dark Grey cmf GRAVEL, some cmf SAND, little SILT (wet, compact)		32
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



6035 Corporate Drive
East Syracuse, NY 13057
Phone: 315-701-0522

SUBSURFACE EXPLORATION TEST BORING LOG

Boring No.**B-596****Page No.**

2 of 2

Project No.

28062

LOG OF BORING SAMPLES**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20	8	22.2	22.2	SS/0	50@0"		Continued from Page 1		50+
21									
22							ROCK Fragments in tip of spoon. Auger Refusal @ 22.2'		
23							Bottom of Boring @ 22.2'		
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-598					
				Page No.		1 of 2					
				Project No.		28062					
Project Name: Micron Campus, Clay, New York				Date Started		05/01/24					
Client: Ramboll				Date Finished		05/01/24					
Location: See Exploration Location Plan				Surface Elev.		383.5'					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: K. Crandall		Casing Hammer:		05/01/24		While Drilling					
Inspector: C. O'Hara		Other:		05/01/24		Before Casing Removed					
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel		05/01/24		After Casing Removed				out	
Type: ATV		Hammer Wt: 140 lbs.		05/01/24		After Casing Removed		caved @ 8.0		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	0.6	SS/14	WH-WH-3-2		Topsoil and Organic Material (moist)				3
1	1B	0.6	2.0				Brown/Grey SILT, trace CLAY, trace mf SAND (moist, soft)				
2	2	2.0	4.0	SS/15	1-2-1-2		Brown SILT, little CLAY, trace cmf SAND (wet, soft)				3
3											
4	3	4.0	6.0	SS/14	9-11-11-7		Brown SILT, trace CLAY (moist, very stiff)				22
5											
6	4	6.0	8.0	SS/17	5-5-6-5		Brown/Grey/Orange, Similar as above (moist, stiff)				11
7											
8	5	8.0	10.0	SS/12	3-4-5-4		Grey SILT, trace CLAY (wet, stiff)				9
9											
10											
11											
12											
13	6	13.0	15.0	SS/14	2-7-5-5		Similar as above (wet, stiff)				12
14											
15											
16											
17											
18	7	18.0	20.0	SS/17	1-2-2-4		Grey CLAY, some SILT, little mf GRAVEL, trace cmf SAND (wet, medium stiff)				4
19											
20							Continued on Page 2				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.		B-598	
									Page No.		2 of 2	
									Project No.		28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
20	8A 8B 9	20.0	20.6	SS/14	8-15-50@2"		Continued from Page 1 Similar as above (wet, hard)				50+	
21		20.6	21.7	SS/0	50@0"		Black highly weathered ROCK Fragments (Shale)					
22		21.1	21.1				Split Spoon and Auger Refusal @ 21.1'					
23							Bottom of Boring @ 21.1'					
24												
25												
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
41												
42												
43												
44												
45												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-600																			
						Page No. 1 of 1																			
						Project No. 28062																			
Project Name: Micron Campus, Clay, New York						Date Started 04/24/24																			
Client: Ramboll						Date Finished 04/24/24																			
Location: See Exploration Location Plan						Surface Elev. 383.4'																			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																			
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>04/24/24</td> <td>While Drilling</td> <td>7.8</td> <td>8.0</td> </tr> <tr> <td>04/24/24</td> <td>Before Casing Removed</td> <td>7.0</td> <td>17.4</td> </tr> <tr> <td>04/24/24</td> <td>After Casing Removed</td> <td>4.7</td> <td>out</td> </tr> <tr> <td>04/24/24</td> <td>After Casing Removed</td> <td>caved @ 7.6</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	04/24/24	While Drilling	7.8	8.0	04/24/24	Before Casing Removed	7.0	17.4	04/24/24	After Casing Removed	4.7	out	04/24/24	After Casing Removed	caved @ 7.6	out
Date	Time	Depth (Ft.)	Casing At (Ft.)																						
04/24/24	While Drilling	7.8	8.0																						
04/24/24	Before Casing Removed	7.0	17.4																						
04/24/24	After Casing Removed	4.7	out																						
04/24/24	After Casing Removed	caved @ 7.6	out																						
Driller: K. Crandall		Casing Hammer:																							
Inspector: C. O'Hara		Other:																							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel																							
Type: ATV		Hammer Wt: 140 lbs.																							
Rod Size: AWJ		Hammer Fall: 30 in.																							
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %																
		From	To																						
0	1A	0.0	0.6	SS/14	1-1-4-4		Topsoil and Organic Material (moist)		5																
1	1B	0.6	2.0				Brown/Grey mottled SILT, trace CLAY (moist, medium stiff)																		
2	2	2.0	4.0	SS/10	2-2-4-3		Similar as above (moist, medium stiff)		6																
3																									
4	3	4.0	6.0	SS/13	3-5-5-3		Brown/Red SILT, little cmf SAND, trace fine GRAVEL, trace CLAY (moist, stiff)		10																
5																									
6	4A	6.0	6.9	SS/15	4-15-23-23		Similar as above (wet, hard)		38																
7	4B	6.9	8.0				Grey cmf GRAVEL, some cmf SAND, little SILT (moist, compact) Augers like Cobble @ 7.3' Augers harder beginning @ 7.8'																		
8	5	8.0	10.0	SS/8	4-5-13-19		Brown/Grey cmf GRAVEL, some cmf SAND, little SILT (wet, medium compact)		18																
9																									
10																									
11																									
12																									
13	6	13.0	15.0	SS/11	1-2-4-11		Grey cmf SAND and mf GRAVEL, little SILT (moist, loose)		6																
14																									
15							Augers harder beginning @ 15.5'																		
16																									
17	7	17.4	17.5	SS/1	50@1"		Black ROCK Fragments (Shale) (wet) Split Spoon and Auger Refusal @ 17.4'		50+																
18							Bottom of Boring @ 17.4'																		
19																									
20																									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-601	
						Page No.		1 of 1	
						Project No.		28062	
Project Name:		Micron Campus, Clay, New York				Date Started		05/01/24	
Client:		Ramboll				Date Finished		05/01/24	
Location:		See Exploration Location Plan				Surface Elev.		383.1'	
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller:		H. Lyon		Casing:		3 ¼" ID H.S.A.		Date	
Driller:		K. Crandall		Casing Hammer:				Time	
Inspector:		C. O'Hara		Other:				Depth (Ft.)	
Drill Rig:		CME 45		Soil Sampler:		2" OD Split Barrel		Casing At (Ft.)	
Type:		ATV		Hammer Wt:		140 lbs.		05/01/24 While Drilling 0.6 13.0	
Rod Size:		AWJ		Hammer Fall:		30 in.		05/01/24 Before Casing Removed 7.1 15.0	
								05/01/24 After Casing Removed 4.6 out	
								05/01/24 After Casing Removed caved @ 7.3 out	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1A	0.0	0.7	SS/13	1-WH-WH-4		Topsoil and Organic Material (moist)		0
1	1B	0.7	2.0				Brown SILT, little CLAY, trace fine SAND, trace ORGANIC MATERIAL (moist, very soft)		
2	2	2.0	4.0	SS/17	3-8-7-6		Brown SILT, trace CLAY (moist, very stiff)		15
3									
4	3	4.0	6.0	SS/13	5-7-5-7		Brown/Grey, Similar as above (moist, stiff)		12
5									
6	4	6.0	8.0	SS/18	7-6-5-8		Brown SILT, little CLAY (moist, stiff)		11
7									
8	5	8.0	10.0	SS/12	5-8-8-5		Grey SILT, trace CLAY (moist, very stiff)		16
9									
10									
11									
12									
13	6	13.0	15.0	SS/7	WH-2-6-3		Grey SILT and cmf SAND, trace mf GRAVEL, trace CLAY (wet, stiff)		8
14									
15	7	15.9	15.9	SS/0	50@0"		Augers hard beginning @ 15.2' Auger Refusal @ 15.9'		50+
16							Bottom of Boring @ 15.9'		
17									
18									
19									
20									

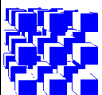
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-602			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/01/24			
Client: Ramboll				Date Finished		05/01/24			
Location: See Exploration Location Plan				Surface Elev.		384.9'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector:		Other: NQ-Core							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/01/24	While Drilling	4.9	18.5		
				05/01/24	Before Casing Removed	None Noted	31.8		
				05/01/24	After Casing Removed	3.2 *	out		
				05/01/24	After Casing Removed	caved @ 17.0	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	1.0	SS/17	1-1-8-9	1.0	Topsoil and Organic Material (moist)		9
1	1B	1.0	2.0				Brown SILT, trace cmf SAND, trace fine GRAVEL (moist, stiff)		
2	2	2.0	4.0	SS/18	10-12-13-16		Brown/Grey SILT, trace fine SAND, trace CLAY (wet, very stiff)		25
3									
4	3	4.0	6.0	SS/19	8-9-6-7		Brown SILT, trace CLAY (wet, very stiff)		15
5									
6	4	6.0	8.0	SS/19	7-8-6-6		Brown SILT, little fine SAND, trace CLAY (wet, stiff)		14
7									
8	5	8.0	10.0	SS/14	3-4-4-4		Grey SILT, trace fine SAND, trace CLAY (wet, stiff)		8
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/15	2-4-4		Grey SILT, trace CLAY (wet, stiff)		8
15									
16									
17									
18									
19	7	18.5	20.0	SS/15	14-13-10		Grey highly weathered ROCK Fragments (Shale), little SILT, little cmf SAND (wet)		23
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: *Water added to boring for coring.

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No. Page No. Project No.	B-602 2 of 2 28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	R-1	21.8	26.8	C/60	NQ-Core		Continued from Page 1		22%	
21						<i>Split Spoon and Auger Refusal @ 21.8'. Set up to core.</i>				
22						Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 3.0" thick), moderately weathered, thinly laminated to thinly bedded, medium hard to hard.				
23						<i>Weathered, broken and fractured zones @ 22.2'-23.0', 23.5'-24.0', 24.3'-24.6' and 26.4'-26.8'.</i>				
24						SILT seam with weathered ROCK Fragments @ 25.8'-26.0'. <i>Weathered zones @ 22.0'-22.2', 23.2', and 26.5'-26.6'.</i> Recovery: 60"/60" = 100% RQD: 13"/60" = 22%				
25	R-2	26.8	31.8	C/57	NQ-Core		22 Pieces, 16" Chips and Fragments <i>1:00 min/ft, no water loss</i>		28%	
26						<i>Coring conducted in 4th gear, 1700 rpm, 700 psi down pressure.</i>				
27						Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 2.0" thick), slightly to moderately weathered, thinly laminated to thinly bedded, medium hard to hard.				
28						<i>Broken and fractured zones @ 27.0'-27.1', 27.5'-27.6', 27.8'-28.3', 28.4'-28.5', 28.8'-29.0', and 29.6'-30.0'.</i>				
29						SILT seam with weathered ROCK Fragments @ 28.6'-28.8'. Recovery: 57"/60" = 95% RQD: 17"/60" = 28%				
30						11 Pieces, 15" Chips and Fragments <i>1:15 min/ft, no water loss</i>				
31						<i>Coring conducted in 4th gear, 1700 rpm, 700 psi down pressure.</i>				
32						Bottom of Boring @ 31.8'				
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-604			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/19/24			
Client: Ramboll				Date Finished		04/19/24			
Location: See Exploration Location Plan				Surface Elev.		391.4'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector: Chris O'Hara		Other: NQ-Core							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/19/24	While Drilling	None Noted	15.0		
				04/19/24	Before Casing Removed	None Noted	25.0		
				04/19/24	After Casing Removed	4.0 *	out		
				04/19/24	After Casing Removed	caved @ 20.6	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/12	1-1-2-4		Topsoil and Organic Material (moist)		3
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace ORGANIC MATERIAL (moist, soft)		
2	2	2.0	4.0	SS/15	4-6-5-6		Brown SILT, trace CLAY (moist, stiff)		11
3									
4	3	4.0	6.0	SS/24	3-4-3-6		Brown SILT, little CLAY, trace fine SAND (moist, medium stiff)		7
5									
6	4	6.0	8.0	SS/14	4-5-6-8		Brown SILT, trace CLAY (moist, stiff)		11
7									
8	5	8.0	10.0	SS/13	5-6-6-7		Similar as above (wet, stiff)		12
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/11	4-4-4		Similar as above (wet, stiff)		8
15									
16									
17									
18	7A	18.5	19.6	SS/16	1-2-5		Grey CLAY, little mf GRAVEL, little SILT, trace cmf SAND (wet, medium stiff)		7
19	7B	19.6	20.0				Grey SILT and CLAY, trace cmf SAND (wet, medium stiff)		
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: *Water added to boring for coring.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.	B-604
									Page No.	2 of 2
									Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	8	23.5	24.3	SS/9	5-50@3"		Continued from Page 1		50+	
21										
22										
23										
24							Grey/Black cmf GRAVEL, some CLAY, little SILT, trace cmf SAND (wet, very compact)			
25	R-1	25.0	30.0	C/60	NQ-Core		Split Spoon and Auger Refusal @ 25.0'		98%	
26							Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 3.0" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard.			
27							Recovery: 60"/60" = 100%			
28							RQD: 59"/60" = 98%			
29							17 Pieces, 0" Chips and Fragments 1.0 - 1.25 min/ft, no water loss			
30	R-2	30.0	35.0	C/60	NQ-Core		Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 1.0" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard. Broken and fractured zone with SILT @ 25.2' - 25.3'. Horizontal fractures with weathering @ 30.7', 30.8', 31.0', 31.3', 34.5' and 34.7'.		63%	
31							Recovery: 60"/60" = 100%			
32							RQD: 38"/60" = 63%			
33							23 Pieces, 1" Chips and Fragments			
34							1.0 - 1.5 min/ft, no water loss			
35							Bottom of Boring @ 35.0'			
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-605			
						Page No. 1 of 2			
						Project No. 28062			
Project Name: Micron Campus, Clay, New York						Date Started 05/03/24			
Client: Ramboll						Date Finished 05/03/24			
Location: See Exploration Location Plan						Surface Elev. 390.2'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller:	H. Lyon	Casing:	3 ¼" ID H.S.A.			Date	Time	Depth (Ft.)	Casing At (Ft.)
Driller:	K. Crandall	Casing Hammer:				05/03/24	While Drilling	2.8	8.0
Inspector:	C. O'Hara	Other:				05/03/24	Before Casing Removed	9.6	20.2
Drill Rig:	CME 45	Soil Sampler:	2" OD Split Barrel			05/03/24	After Casing Removed	7.3	out
Type:	ATV	Hammer Wt:	140 lbs.			05/03/24	After Casing Removed	caved @ 4.0	out
Rod Size:	AWJ	Hammer Fall:	30 in.						
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/14	WH-WH-1-2		Topsoil and Organic Material (moist)		1
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace fine SAND (moist, soft)		
2	2	2.0	4.0	SS/18	2-4-3-3		Brown/Orange SILT, trace CLAY (moist, medium stiff)		7
3									
4	3	4.0	6.0	SS/18	5-7-7-8		Brown SILT, trace CLAY (wet, stiff)		14
5									
6	4	6.0	8.0	SS/16	7-8-8-8		Similar as above (wet, very stiff)		16
7									
8	5	8.0	10.0	SS/17	6-8-7-10		Brown/Grey, Similar as above (wet, very stiff)		15
9									
10									
11									
12									
13	6A	13.0	13.6	SS/11	5-7-8-7		Similar as above (moist, very stiff)		15
14	6B	13.6	15.0				Grey cmf SAND, some cmf GRAVEL, trace SILT (wet, medium compact)		
15									
16							Augers gravelly beginning @ 16.3'		
17									
18	7	18.0	19.2	SS/12	11-28-50@2"		Grey cmf SAND, some cmf GRAVEL, little SILT (wet, very compact)		50+
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.	B-605
								Page No.	2 of 2
								Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20	8	20.2	20.2	SS/2	50@2"		Continued from Page 1		
21							Black SHALE Fragments		
22							<i>Split Spoon and Auger Refusal @ 20.2'</i>		
23							Bottom of Boring @ 20.2'		
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-606					
				Page No.		1 of 2					
				Project No.		28062					
Project Name: Micron Campus, Clay, New York				Date Started		05/02/24					
Client: Ramboll				Date Finished		05/02/24					
Location: See Exploration Location Plan				Surface Elev.		393.2'					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: K. Crandall		Casing Hammer:		05/02/24		While Drilling		10.8		13.0	
Inspector: C. O'Hara		Other:		05/02/24		Before Casing Removed		7.2		21.5	
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel		05/02/24		After Casing Removed		3.8		out	
Type: ATV		Hammer Wt: 140 lbs.		05/02/24		After Casing Removed		caved @ 5.1		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
0	1A	0.0	0.4	SS/12	1-WH-3-4		Topsoil and Organic Material (moist)				3
1	1B	0.4	2.0				Brown/Grey mottled SILT, little CLAY (moist, soft)				
2	2	2.0	4.0	SS/14	3-3-3-2		Brown/Grey mottled SILT, trace CLAY (wet, medium stiff)				6
3											
4	3	4.0	6.0	SS/13	3-3-4-8		Brown SILT, trace CLAY (wet, medium stiff)				7
5											
6	4	6.0	8.0	SS/20	8-9-9-11		Similar as above (wet, very stiff)				18
7											
8	5	8.0	10.0	SS/24	10-12-16-16		Similar as above (wet, very stiff)				28
9											
10											
11							Augers easier beginning @ 11.0'				
12							Augers gravelly beginning @ 11.5'				
13	6	13.0	15.0	SS/14	1-3-4-4		Similar as above (wet, medium stiff)				7
14											
15											
16											
17											
18	7	18.0	20.0	SS/11	11-7-12-16		Grey cmf GRAVEL and cmf SAND, trace SILT (wet, medium compact)				19
19											
20							Continued on Page 2				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.	B-606
								Page No.	2 of 2
								Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20	8	21.5	21.5	SS/0	50@0"		Continued from Page 1 <i>Augers harder beginning @ 20.5'</i>		
21							<i>Split Spoon and Auger Refusal @ 21.5'</i>		
22							Bottom of Boring @ 21.5'		
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-607					
				Page No.		1 of 2					
				Project No.		28062					
Project Name: Micron Campus, Clay, New York				Date Started		04/18/24					
Client: Ramboll				Date Finished		04/18/24					
Location: See Exploration Location Plan				Surface Elev.		393.9'					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: Gary Richards		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: Chris O'Hara		Casing Hammer:		04/18/24		While Drilling		None Noted		15.0	
Inspector:		Other:		04/18/24		Before Casing Removed		None Noted		22.0	
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel		04/18/24		After Casing Removed		None Noted		out	
Type: ATV		Hammer Wt: 140 lbs.		04/18/24		After Casing Removed		caved @ 5.0		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	0.5	SS/16	1-1-2-3		Topsoil and Organic Material (moist)		3		
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace ORGANIC MATERIAL (moist, soft)				
2	2	2.0	4.0	SS/20	4-4-4-4		Brown SILT, little CLAY (moist, stiff)		8		
3											
4	3	4.0	6.0	SS/21	4-5-7-6		Brown SILT, trace CLAY (moist, stiff)		12		
5											
6	4	6.0	8.0	SS/11	6-5-12-11		Brown SILT, trace CLAY (moist, very stiff)		17		
7											
8	5	8.0	10.0	SS/23	9-5-5-5		Similar as above (moist, stiff)		10		
9											
10											
11											
12											
13											
14	6	13.5	15.0	SS/17	3-3-4		Similar as above (wet, medium stiff)		7		
15											
16											
17											
18											
19	7A	18.5	18.7	SS/13	7-7-13		Brown SILT, some CLAY (wet, very stiff)		20		
	7B	18.7	20.0				Grey/Black cmf SAND and cmf GRAVEL, trace SILT (wet)				
20							Continued on Page 2				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.		B-607	
									Page No.		2 of 2	
									Project No.		28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) FromTo		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %		
20	8	22.0	22.0	SS/0	50@0"		Continued from Page 1				50+	
21												
22							Black ROCK Fragments (Shale) in tip of Split Spoon					
23							Bottom of Boring @ 22.0'					
24												
25												
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
41												
42												
43												
44												
45												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-608					
				Page No.		1 of 2					
				Project No.		28062					
Project Name: Micron Campus, Clay, New York				Date Started		05/03/24					
Client: Ramboll				Date Finished		05/03/24					
Location: See Exploration Location Plan				Surface Elev.		387.7'					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: K. Crandall		Casing Hammer:		05/03/24		While Drilling		3.5		8.0	
Inspector: C. O'Hara		Other:		05/03/24		Before Casing Removed		5.3		22.4	
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel		05/03/24		After Casing Removed		8.0		out	
Type: ATV		Hammer Wt: 140 lbs.		05/03/24		After Casing Removed		caved @ 12.0		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	0.5	SS/12	WR-1-1-3		Topsoil and Organic Material (moist)				2
1	1B	0.5	2.0				Brown SILT, trace fine SAND, trace CLAY (moist, soft)				
2	2	2.0	4.0	SS/14	4-3-4-5		Brown/Grey mottled SILT, trace CLAY (moist, medium stiff)				7
3											
4	3	4.0	6.0	SS/17	3-7-7-8		Similar as above (moist, stiff)				14
5											
6	4	6.0	8.0	SS/24	6-6-8-11		Brown SILT, trace CLAY (moist, stiff)				14
7											
8	5	8.0	10.0	SS/19	11-9-6-7		Similar as above (moist, very stiff)				15
9											
10											
11											
12											
13	6	13.0	15.0	SS/15	1-3-3-4		Grey, Similar as above (wet, medium stiff)				6
14											
15											
16											
17											
18	7	18.0	20.0	SS/11	2-2-8-8		Grey cmf SAND and mf GRAVEL, little SILT (wet, medium compact)				10
19											
20							Continued on Page 2				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.		B-608	
									Page No.		2 of 2	
									Project No.		28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) FromTo		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %		
20	8	22.4	22.4	SS/0	50@0"		Continued from Page 1 Augers gravelly beginning @ 20.2'					
21						Augers possibly on top of Rock beginning @ 21.9'						
22						Split Spoon and Auger Refusal @ 22.4'				50+		
23						Bottom of Boring @ 22.4'						
24												
25												
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
41												
42												
43												
44												
45												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-609			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/01/24			
Client: Ramboll				Date Finished		05/01/24			
Location: See Exploration Location Plan				Surface Elev.		391.7'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/01/24	While Drilling	7.8	10.0		
				05/01/24	Before Casing Removed	9.5	17.6		
				05/01/24	After Casing Removed	6.4	out		
				05/01/24	After Casing Removed	caved @ 11.4	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/15	1-1-2-5		Topsoil and Organic Material (moist)		3
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace fine SAND, trace ORGANIC MATERIAL (moist, soft)		
2	2	2.0	4.0	SS/13	7-6-7-6		Brown SILT, trace CLAY, trace fine SAND (moist, stiff)		13
3									
4	3	4.0	6.0	SS/11	4-4-5-5		Brown SILT, trace CLAY (moist, stiff)		9
5									
6	4	6.0	8.0	SS/13	4-2-2-7		Brown SILT, trace cmf SAND, trace fine GRAVEL (wet, medium stiff)		4
7									
8	5	8.0	10.0	SS/14	2-2-1-1		Brown cmf SAND, some mf GRAVEL, little SILT, trace CLAY (wet, very loose)		3
9									
10	6	10.0	12.0	SS/14	15-28-38-42		Brown cmf GRAVEL and cmf SAND, trace SILT (moist, very compact)		66
11									
12									
13									
14	7	14.0	15.2	SS/11	12-15-50@2"		Brown cmf SAND, some mf GRAVEL, little SILT (moist, very compact)		50+
15									
16							Augers harder beginning @ 15.7'		
17									
18	8	17.6	18.5	SS/4	20-50@3"		Black ROCK Fragments (Shale)		50+
19							Bottom of Boring @ 18.5'		
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-610			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/01/24			
Client: Ramboll				Date Finished		05/01/24			
Location: See Exploration Location Plan				Surface Elev.		382.7'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/01/24	While Drilling	8.8	13.0		
				05/01/24	Before Casing Removed	10.0	18.5		
				05/01/24	After Casing Removed	4.3	out		
				05/01/24	After Casing Removed	caved @ 6.7	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.4	SS/16	1-WH-4-5		Topsoil and Organic Material (moist)		4
1	1B	0.4	2.0				Brown SILT, trace CLAY, trace fine SAND (moist, medium stiff)		
2	2	2.0	4.0	SS/12	4-6-7-7		Brown SILT, trace CLAY, trace mf SAND (moist, stiff)		13
3									
4	3	4.0	5.9	SS/13	3-4-3-50@5"		Brown SILT, trace cmf GRAVEL, trace cmf GRAVEL, trace CLAY (wet, medium stiff)		7
5									
6	4	6.0	8.0	SS/11	4-8-8-8		Brown SILT, little fine GRAVEL, trace cmf SAND (wet, very stiff)		16
7									
8	5	8.0	10.0	SS/14	8-6-6-7		Brown SILT, some cmf SAND, trace fine GRAVEL (wet, stiff)		12
9							Augers like Cobble beginning @ 9.0'		
10									
11									
12									
13	6	13.0	15.0	SS/12	WR-5-6-6		Grey cmf GRAVEL, some cmf SAND, little SILT (wet, medium compact)		11
14									
15									
16									
17							Augers like Cobble beginning @ 17.2'		
18	7	18.0	18.2	SS/4	41-50@2"		Black highly weathered ROCK Fragments (Shale), little SILT (moist)		50+
19	8	18.5	18.5		50@0"		Split Spoon and Auger Refusal @ 18.5'		50+
20							Bottom of Boring @ 18.5'		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-612			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/18/24			
Client: Ramboll				Date Finished		04/19/24			
Location: See Exploration Location Plan				Surface Elev.		391.6'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Al Linstruth		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: John Winks		Casing Hammer:							
Inspector:		Other: NQ-Core							
Drill Rig: CME 550X		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/18/24	While Drilling	13.0	13.5		
				04/19/24	Before Casing Removed	13.5 *	13.6		
				04/19/24	After Casing Removed	6.3 *	out		
				04/19/24	After Casing Removed	caved @ 15.5	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/11	1-2-2-3		Brown SILT, trace cmf SAND, trace ORGANIC MATERIAL (moist, medium stiff)		4
1									
2	2	2.0	4.0	SS/16	3-3-4-5		Brown/Grey mottled SILT, trace CLAY (wet, medium stiff)		7
3									
4	3	4.0	6.0	SS/19	3-3-4-4		Brown SILT, trace fine SAND (wet, medium stiff)		7
5									
6	4	6.0	8.0	SS/17	3-3-3-3		Similar as above (wet, medium stiff)		6
7									
8	5	8.0	10.0	SS/15	1-2-3-3		Brown SILT, some cmf GRAVEL, little cmf SAND (wet, medium stiff)		5
9									
10									
11									
12									
13	6	13.5	15.0	SS/10	13-21-27		Brown/Grey cmf SAND, some cmf GRAVEL, little SILT (moist, compact)		48
14									
15									
16									
17									
18	7A	18.5	19.0		40-50@4"		Similar as above (moist, very compact)		50+
19	7B	19.0	19.4				Grey cmf GRAVEL and cmf SAND, trace SILT (moist, very compact)		
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: *Water added to boring for coring.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.	B-612
								Page No.	2 of 2
								Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20							Continued from Page 1		
21									
22									
23									
24	8	23.5	23.6	SS/1	50@1"		Grey ROCK Fragments (Dolostone) (wet) <i>Auger Refusal @ 23.6' - Set up to Core</i>		50+
25	R-1	23.6	28.6	C/54	NQ-Core		Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 1" thick), moderately weathered, medium hard to hard, thinly laminated to thinly bedded.		12%
26							<i>Broken and fractured zone @ 24.1' - 27.4'.</i>		
27							Recovery: 54"/60" = 90% RQD: 7"/60" = 12%		
28							5 Pieces, 31" Chips and Fragments		
29	R-2	28.6	33.6	C/60	NQ-Core		55 sec/ft, no water loss		
30							<i>Coring conducted in 5th gear, 2100 rpm, 700 psi down pressure.</i>		
31							Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 2" thick), slightly to moderately weathered, medium hard to hard.		55%
32							<i>Weathered fracture zones (1/4" - 2" thick) @ 30.4' - 30.5', 31.2' - 31.3', 31.4', 31.9', 32.3' - 32.4', and 33.2' - 33.3'.</i>		
33							Recovery: 60"/60" = 100% RQD: 33"/60" = 55%		
34							28 Pieces, 1" Chips and Fragments		
35							50 sec/ft, no water loss		
36							<i>Coring conducted in 5th gear, 2100 rpm, 700 psi down pressure.</i>		
37									
38									
39									
40							Bottom of Boring @ 33.6'		
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-613	
						Page No.		1 of 2	
						Project No.		28062	
Project Name:		Micron Campus, Clay, New York				Date Started		04/19/24	
Client:		Ramboll				Date Finished		04/19/24	
Location:		See Exploration Location Plan				Surface Elev.		390.0'	
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller:		Al Linstruth		Casing:		3 ¼" ID H.S.A.		Date	
Driller:		John Winks		Casing Hammer:				Time	
Inspector:				Other:				Depth (Ft.)	
Drill Rig:		CME 550X		Soil Sampler:		2" OD Split Barrel		Casing At (Ft.)	
Type:		ATV		Hammer Wt:		140 lbs.		04/19/24 While Drilling 12.5 18.5	
Rod Size:		AWJ		Hammer Fall:		30 in.		04/19/24 Before Casing Removed 6.5 21.6	
								04/19/24 After Casing Removed 4.5 out	
								04/19/24 After Casing Removed caved @ 12.5 out	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1	0.0	2.0	SS/17	WH-1-3-5		Brown/Grey mottled SILT, trace CLAY, trace ORGANIC MATERIAL (moist, medium stiff)		4
1									
2	2	2.0	4.0	SS/15	3-3-5-3		Brown/Grey mottled SILT, trace CLAY (moist, stiff)		8
3									
4	3	4.0	6.0	SS/17	2-2-3-4		Brown/Grey SILT, trace CLAY (wet, medium stiff)		5
5									
6	4	6.0	8.0	SS/19	3-3-3-5		Brown SILT, trace CLAY (wet, medium stiff)		6
7									
8	5	8.0	10.0	SS/16	3-5-7-8		Similar as above (wet, stiff)		12
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/11	3-3-2		Similar as above (wet, medium stiff)		5
15									
16									
17	7	16.5	16.8	SS/3	50@4"		Grey mf GRAVEL, little SILT, little cmf SAND (wet, very compact) <i>Augers like Boulder from 16.5' to 18.0'</i>		50+
18									
19	8A	18.5	19.5	SS/7	3-6-6		Brown/Grey CLAY, some SILT, trace cmf SAND (wet, stiff)		12
20	8B	19.5	20.0				Grey mf GRAVEL, trace cmf SAND, trace SILT (wet, medium compact) Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.	B-613
								Page No.	2 of 2	
								Project No.	28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	9	21.0	21.4	SS/3	50@3"		Continued from Page 1		50+	
21						----- Grey ROCK Fragments (Dolostone) (wet) <i>Auger Refusal @ 21.6'</i>				
22						Bottom of Boring @ 21.6'				
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-614							
						Page No.		1 of 1							
						Project No.		28062							
Project Name:		Micron Campus, Clay, New York				Date Started		05/02/24							
Client:		Ramboll				Date Finished		05/02/24							
Location:		See Exploration Location Plan				Surface Elev.		386.2'							
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS									
Driller:		H. Lyon		Casing:		3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)				
Driller:		K. Crandall		Casing Hammer:											
Inspector:		C. O'Hara		Other:		05/02/24		While Drilling		1.5		8.0			
Drill Rig:		CME 45		Soil Sampler:		2" OD Split Barrel		05/02/24		Before Casing Removed		3.0		19.7	
Type:		ATV		Hammer Wt:		140 lbs.		05/02/24		After Casing Removed		2.5		out	
Rod Size:		AWJ		Hammer Fall:		30 in.		05/02/24		After Casing Removed		caved @ 6.0		out	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL									
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %				
		From	To												
0	1A	0.0	0.5	SS/14	WR-1-1-3		Topsoil and Organic Material (moist)					2			
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace fine SAND (moist, soft)								
2	2	2.0	4.0	SS/15	3-4-4-4		Brown SILT, trace CLAY (moist, stiff)					8			
3															
4	3	4.0	6.0	SS/16	1-1-WH-4		Brown/Grey CLAY and SILT, trace cmf SAND (moist, very soft)					1			
5															
6	4	6.0	8.0	SS/13	7-8-8-8		Brown/Grey SILT, trace CLAY (wet, very stiff)					16			
7															
8	5	8.0	10.0	SS/12	8-10-11-12		Similar as above (wet, very stiff)					21			
9															
10															
11															
12															
13	6	13.0	15.0	SS/14	1-4-5-6		Grey, Similar as above (wet, stiff)					9			
14															
15															
16															
17							Augers gravelly beginning @ 17.0'								
18	7	18.0	19.6	SS/7	5-6-8-50@1"		Dark Grey/Black highly weathered ROCK Fragments (Shale) and SILT, little cmf SAND (wet)					14			
19															
	8	19.7	19.8	SS/1	50@1"		Black SHALE Fragments in tip of spoon. Auger Refusal @ 19.8'					50+			
20							Bottom of Boring @ 19.8'								

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-615			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/18/24			
Client: Ramboll				Date Finished		04/18/24			
Location: See Exploration Location Plan				Surface Elev.		391.8'			
METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS					
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector: Chris O'Hara		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/18/24	While Drilling	None Noted	15.0		
				04/18/24	Before Casing Removed	8.8	26.4		
				04/18/24	After Casing Removed	None Noted	out		
				04/18/24	After Casing Removed	caved @ 6.3	out		
LOG OF BORING SAMPLES				VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/13	WH-1-2-3		Topsoil and Organic Material (moist, medium stiff)		3
1	1B	0.5	2.0				Brown/Grey mottled SILT, little CLAY, trace ORGANIC MATERIAL (moist, soft)		
2	2	2.0	4.0	SS/18	4-4-4-4		Brown/Grey mottled SILT, trace CLAY (wet, stiff)		8
3									
4	3	4.0	6.0	SS/17	3-3-5-7		Brown SILT, trace CLAY (moist, stiff)		8
5									
6	4	6.0	8.0	SS/16	4-6-7-8		Similar as above (moist, stiff)		13
7									
8	5	8.0	10.0	SS/24	6-7-6-7		Similar as above (wet, stiff)		13
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/14	3-6-7		Grey/Brown, Similar as above (wet, stiff)		13
15									
16									
17									
18									
19	7	18.5	20.0	SS/13	2-3-6		Grey, Similar as above (wet, stiff)		9
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.	B-615
									Page No.	2 of 2
									Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	8	23.5	25.0	SS/12	6-8-13		Continued from Page 1			21
21										
22										
23										
24						Grey cmf GRAVEL and cmf SAND, trace SILT (wet, medium compact)				
25										
26						Auger Refusal @ 26.4'				
27						Bottom of Boring @ 26.4'				
28										
29										
30										
31										
32										
33										
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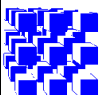
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-616			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/18/24			
Client: Ramboll				Date Finished		04/18/24			
Location: See Exploration Location Plan				Surface Elev.		392.5'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector: Chris O'Hara		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/18/24	While Drilling	None Noted	15.0		
				04/18/24	Before Casing Removed	7.0 *	24.2		
				04/18/24	After Casing Removed	5.0 *	out		
				04/18/24	After Casing Removed	caved @ 9.7	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/13	1-1-3-4		Topsoil and Organic Material (moist)		4
1	1B	0.5	2.0				Brown/Grey mottled SILT, little CLAY, trace cmf SAND, trace ORGANIC MATERIAL (moist, medium stiff)		
2	2	2.0	4.0	SS/12	4-5-5-5		Brown/Grey mottled SILT, trace CLAY (moist, stiff)		10
3									
4	3	4.0	6.0	SS/17	4-4-6-8		Brown SILT, trace CLAY, trace fine SAND (moist, stiff)		10
5									
6	4	6.0	8.0	SS/15	6-8-7-10		Brown SILT, trace CLAY (wet, very stiff)		15
7									
8	5	8.0	10.0	SS/20	6-8-5-5		Brown SILT, little cmf GRAVEL, trace CLAY, trace cmf SAND (wet, stiff)		13
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/12	3-4-8		Brown/Grey SILT, trace CLAY (wet, stiff)		12
15									
16									
17									
18									
19	7	18.5	20.0	SS/7	WH-1-2		Grey cmf SAND, little mf GRAVEL, trace SILT (wet, very loose)		3
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: *Water added to boring for coring.

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.	B-616
								Page No.	2 of 2
								Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20	8	20.0	22.0	SS/11	7-8-21-22		Continued from Page 1 Grey cmf SAND and mf GRAVEL, trace SILT (wet, medium compact)		29
21									
22									
23									
24	9 R-1	23.5 24.2	24.2 29.2	SS/8 C/60	19-50@2" NQ-Core		Grey cmf SAND and mf GRAVEL, little SILT (wet, very compact)		50+ 97%
25						Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 2.0" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard. SILT seam (1/8" thick) @ 24.4'. Recovery: 60"/60" = 100% RQD: 58"/60" = 97% 21 Pieces, 0" Chips and Fragments 0.5 - 1.50 min/ft, no water loss Coring conducted in 4th gear, 1500 rpm, 600 psi down pressure.			
26									
27									
28	R-2	29.2	34.2	C/60	NQ-Core				97%
29						Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 2.0" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard. Weathered zones (1/2" - 3/4" thick) @ 31.3' and 31.8'. Recovery: 60"/60" = 100% RQD: 58"/60" = 97% 22 Pieces, 1" Chips and Fragments 1.5 - 1.75 min/ft, no water loss Coring conducted in 4th gear, 1500 rpm, 600 psi down pressure.			
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-617			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/17/24			
Client: Ramboll				Date Finished		04/17/24			
Location: See Exploration Location Plan				Surface Elev.		393.0'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Gary Richards		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Chris O'Hara		Casing Hammer:							
Inspector:		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/17/24	While Drilling	None Noted	15.0		
				04/17/24	Before Casing Removed	12.6	24.3		
				04/17/24	After Casing Removed	4.3	out		
				04/17/24	After Casing Removed	caved @ 7.7	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/14	WH-1-3-4		Topsoil and Organic Material (moist)		4
1	1B	0.5	2.0				Brown/Grey mottled SILT, little CLAY, trace ORGANIC MATERIAL (moist, medium stiff)		
2	2	2.0	4.0	SS/15	4-5-7-8		Brown/Grey SILT, little CLAY (wet, stiff)		12
3									
4	3	4.0	6.0	SS/13	5-5-6-6		Brown SILT, trace CLAY (wet, stiff)		11
5									
6	4	6.0	8.0	SS/12	7-7-7-7		Brown SILT, trace CLAY (wet, stiff)		14
7									
8	5	8.0	10.0	SS/11	4-5-7-8		Brown SILT, trace CLAY, trace cmf SAND (wet, stiff)		12
9									
10									
11									
12									
13									
14	6	14.0	16.0	SS/12	WH-1-WH-2		Brown/Grey SILT, little CLAY, trace cmf SAND (wet, very soft)		1
15									
16	7	16.0	18.0	SS/10	1-2-2-2		Similar as above (wet, medium stiff)		4
17									
18	8	18.0	20.0	SS/15	2-3-3-2		Grey SILT, trace CLAY (wet, medium stiff)		6
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.		B-617	
									Page No.		2 of 2	
									Project No.		28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %		
20	9	20.0	22.0	SS/18	WH-1-2-4		Continued from Page 1 Grey CLAY, little SILT, trace cmf SAND (wet, very soft)			1		
21						-----						
22	10	22.0	23.9	SS/13	5-10-16-50@5"		Dark Grey/Black ROCK Fragments (Shale) and CLAY (wet)			26		
23												
24	11	24.3	24.3	SS/0	50@0"		Augered harder beginning @ 24.3' No Recovery - Auger Refusal @ 24.3'			50+		
25						Bottom of Boring @ 24.3'						
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
41												
42												
43												
44												
45												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-618			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/19/24			
Client: Ramboll				Date Finished		04/19/24			
Location: See Exploration Location Plan				Surface Elev.		392.7'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector: Chris O'Hara		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/19/24	While Drilling	15.0	18.5		
				04/19/24	Before Casing Removed	14.3	24.3		
				04/19/24	After Casing Removed	6.0	out		
				04/19/24	After Casing Removed	caved @ 6.1	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.4	SS/14	WH-2-2-3		Topsoil and Organic Material (moist)		4
1	1B	0.4	2.0				Brown/Grey mottled CLAY, little SILT, trace ORGANIC MATERIAL (moist, medium stiff)		
2	2	2.0	4.0	SS/15	1-2-2-2		Brown/Grey mottled SILT and CLAY (moist, medium stiff)		4
3									
4	3	4.0	6.0	SS/13	3-4-5-6		Similar as above (moist, stiff)		9
5									
6	4	6.0	8.0	SS/14	4-7-6-7		Brown SILT, trace CLAY (moist, stiff)		13
7									
8	5	8.0	10.0	SS/7	6-10-10-8		Similar as above (moist, very stiff)		20
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/14	3-2-2		Grey/Brown SILT, little CLAY (wet, medium stiff)		4
15	7A	15.0	16.0	SS/15	2-2-1-1		Grey SILT, some CLAY (wet, soft)		3
16	7B	16.0	17.0				Grey CLAY, little SILT, little fine GRAVEL, trace cmf SAND (wet, soft)		
17	8	17.0	18.5		4-5-4		Grey SILT, some CLAY, trace fine GRAVEL, trace cmf SAND (wet, stiff)		9
18									
19	9	18.5	20.0	SS/11	3-5-4		Grey cmf SAND, some cmf GRAVEL, some SILT (wet, loose)		9
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



6035 Corporate Drive
East Syracuse, NY 13057
Phone: 315-701-0522

SUBSURFACE EXPLORATION TEST BORING LOG

Boring No.**B-618****Page No.**

2 of 2

Project No.

28062

LOG OF BORING SAMPLES**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20	10	23.5	23.9	SS/5	50@5"		Continued from Page 1		50+
21									
22									
23									
24							Grey/Black highly weathered ROCK Fragments (Dolostone), little SILT (wet) <i>Split Spoon and Auger Refusal @ 24.3'</i>		
25							Bottom of Boring @ 24.3'		
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-619			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/17/24			
Client: Ramboll				Date Finished		04/17/24			
Location: See Exploration Location Plan				Surface Elev.		392.3'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Gary Richards		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Chris O'Hara		Casing Hammer:							
Inspector:		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/17/24	While Drilling	None Noted	15.0		
				04/17/24	Before Casing Removed	3.0	24.0		
				04/17/24	After Casing Removed	4.7	out		
				04/17/24	After Casing Removed	caved @ 12.1	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.3	SS/13	WH-1-3-4		Topsoil and Organic Material (moist)		4
1	1B	0.3	2.0				Brown/Grey mottled SILT, some CLAY, trace ORGANIC MATERIAL (moist, medium stiff)		
2	2	2.0	4.0	SS/11	5-4-3-5		Brown/Grey mottled SILT, little CLAY (moist, medium stiff)		7
3									
4	3	4.0	6.0	SS/12	3-4-5-7		Brown SILT, trace CLAY (wet, stiff)		9
5									
6	4	6.0	8.0	SS/15	5-7-7-7		Brown SILT, trace CLAY, trace fine SAND (wet, stiff)		14
7									
8	5	8.0	10.0	SS/14	5-6-7-8		Brown SILT, trace CLAY (wet, stiff)		13
9									
10									
11									
12									
13									
14	6	14.0	16.0	SS/12	3-3-3-5		Grey, Similar as above (wet, medium stiff)		6
15									
16									
17									
18									
19	7	19.0	21.0	SS/10	1-3-5-7		Similar as above (moist, stiff)		8
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No. B-619 Page No. 2 of 2 Project No. 28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20	8A 8B	24.0 24.2	24.2 25.1	SS/9	3-22-50@1"		Continued from Page 1		50+
21									
22									
23							Augered harder beginning @ 23.7'		
24							Grey CLAY, little SILT, trace fine GRAVEL, trace cmf SAND (wet, hard)		
25							Black/Grey ROCK Fragments (Dolostone) (wet)		
26							Split Spoon and Auger Refusal @ 25.3'		
27							Bottom of Boring @ 25.3'		
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-620			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/18/24			
Client: Ramboll				Date Finished		04/18/24			
Location: See Exploration Location Plan				Surface Elev.		391.3'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector: Chris O'Hara		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/18/24	While Drilling	None Noted	15.0		
				04/18/24	Before Casing Removed	14.0	24.5		
				04/18/24	After Casing Removed	8.0	out		
				04/18/24	After Casing Removed	caved @ 21.0	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/14	1-1-4-4	-----	Topsoil and Organic Material (moist)		5
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace cmf SAND, trace GRAVEL (moist, medium stiff)		
2	2	2.0	4.0	SS/11	3-4-4-7		Brown/Grey mottled SILT, trace CLAY (wet, stiff)		8
3									
4	3	4.0	6.0	SS/15	5-8-7-9		Brown SILT, trace CLAY (wet, very stiff)		15
5									
6	4	6.0	8.0	SS/10	6-7-8-7		Similar as above (wet, very stiff)		15
7									
8	5	8.0	10.0	SS/18	5-7-8-9		Similar as above (moist, very stiff)		15
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/14	2-3-3		Grey, Similar as above (moist, medium stiff)		6
15									
16									
17									
18									
19	7	18.5	20.0	SS/11	4-7-3		Grey SILT, some CLAY (wet, stiff)		10
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.		B-620	
									Page No.		2 of 2	
									Project No.		28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) FromTo		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
20	8	23.524.4		SS/9	5-50@5"		Continued from Page 1				50+	
21							Augers gravelly beginning @ 21.4'					
22												
23												
24							Dark Grey/Black ROCK Fragments (Shale) and CLAY, little cmf SAND (wet) Auger Refusal @ 24.5'					
25							Bottom of Boring @ 24.5'					
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
41												
42												
43												
44												
45												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-623					
				Page No.		1 of 2					
				Project No.		28062					
Project Name: Micron Campus, Clay, New York				Date Started		04/16/24					
Client: Ramboll				Date Finished		04/16/24					
Location: See Exploration Location Plan				Surface Elev.		392.1'					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: Gary Richards		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: Chris O'Hara		Casing Hammer:		04/16/24		While Drilling		None Noted		19.0	
Inspector: Mark Schumacher, P.G		Other:		04/16/24		Before Casing Removed		8.1		25.7	
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel		04/16/24		After Casing Removed		4.8		out	
Type: ATV		Hammer Wt: 140 lbs.		04/16/24		After Casing Removed		caved @ 7.7		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	0.3	SS/18	1-1-3-4		Topsoil and Organic Material (moist)				4
1	1B	0.3	2.0				Brown/Grey mottled SILT, trace CLAY, trace ORGANIC MATERIAL (moist, medium stiff)				
2	2	2.0	4.0	SS/18	3-5-5-5		Brown/Grey mottled SILT, trace CLAY (moist, stiff)				10
3											
4	3	4.0	6.0	SS/24	3-6-6-7		Brown/Grey SILT, trace CLAY, trace cmf SAND (moist, stiff)				12
5											
6	4	6.0	8.0	SS/24	7-8-8-9		Brown SILT, trace CLAY (moist, very stiff)				16
7											
8	5	8.0	10.0	SS/20	5-7-7-7		Brown SILT, trace fine GRAVEL, trace cmf SAND (moist, stiff)				14
9											
10											
11											
12											
13											
14	6	14.0	16.0	SS/18	2-3-4-7		Grey SILT, trace CLAY (wet, medium stiff)				7
15											
16											
17											
18											
19	7A	19.0	20.5	SS/22	1-2-2-1		Grey CLAY, trace SILT, trace fine GRAVEL, trace cmf SAND (wet, medium stiff)				4
20							Continued on Page 2				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No. B-623		
						Page No. 2 of 2					
						Project No. 28062					
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
20	7B 8	20.5	21.0	SS/17	2-4-9-6		Continued from Page 1			13	
21		21.0	23.0				Grey SILT, some cmf SAND, little cmf GRAVEL, trace CLAY (wet)				
22							Grey cmf SAND and cmf GRAVEL, some SILT (wet, medium compact)				
23	9A	24.0	24.6	SS/13	4-23-50@1"		Augers gravelly beginning @ 23.5'			50+	
24							Grey cmf SAND, little SILT, trace fine GRAVEL (wet, very compact)				
25		24.6	25.1				Dark Grey weathered ROCK Fragments (Shale)				
26	9B						Auger Refusal @ 25.7'				
27							Bottom of Boring @ 25.7'				
28											
29											
30											
31											
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43											
44											
45											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-624			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/16/24			
Client: Ramboll				Date Finished		04/17/24			
Location: See Exploration Location Plan				Surface Elev.		389.8'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Al Linstruth		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: John Winks		Casing Hammer:							
Inspector: Mark Schumacher, P.G		Other: NQ-Core							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/16/24	While Drilling	None Noted	10.0		
					04/17/24	Before Casing Removed	4.3*	24.1	
					04/17/24	After Casing Removed	5.5	out	
					04/17/24	After Casing Removed	caved @ 16.7	out	
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/18	1-1-1-3		Topsoil and Organic Material (wet)		2
1	1B	0.5	2.0				Brown/Grey mottled SILT, trace CLAY (moist, soft)		
2	2	2.0	4.0	SS/16	4-6-6-8		Brown/Grey mottled SILT, little CLAY (moist, stiff)		12
3									
4	3	4.0	6.0	SS/24	4-6-6-6		Brown SILT, trace CLAY (moist, stiff)		12
5									
6	4	6.0	8.0	SS/19	5-6-6-6		Brown SILT, trace CLAY (moist, stiff)		12
7									
8	5	8.0	10.0	SS/13	4-6-7-10		Brown SILT, trace CLAY (moist, stiff)		13
9									
10									
11									
12									
13									
14	6	14.0	16.0	SS/20	4-3-3-3		Grey SILT, trace CLAY, trace fine SAND (wet, medium stiff)		6
15									
16									
17									
18									
19	7	19.0	21.0	SS/9	WH-1-WH-1		Grey SILT and CLAY, trace fine SAND (wet, very soft)		1
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: *Water added to borehole during coring process.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.	B-624
								Page No.	2 of 2
								Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20							Continued from Page 1		
21	8A	21.0	22.5		WH-3-2-4		Grey CLAY, little SILT, trace cmf SAND (wet, medium stiff)		5
22	8B	22.5	23.0				Grey cmf SAND and SILT (wet)		
23							<i>Augers gravelly beginning @ 23.0'</i>		
24	9	24.0	24.1		50@1"		Grey ROCK Fragments (Shale) and ROCK Flour		50+
24.1'							<i>Split Spoon and Auger Refusal @ 24.1'. Set up to core.</i>		
25	R-1	24.1	29.1	C/59	NQ-Core		Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 1" thick), slightly weathered, thinly laminated to medium bedded, hard. CLAY seam (3/4" thick) @ 25.0'.		37%
26							Broken and fractured zone @ 25.4' - 25.6'. Core blocked @ ~ 25.4'.		
27							Recovery: 59"/60" = 98% RQD: 22"/60" = 37%		
28							28 Pieces, 2" Chips and Fragments		
29							2 - 2.25 min/ft, no water loss		
29							<i>Coring conducted in 4th gear, 1800-2000 rpm, 450 psi down pressure.</i>		
30	R-2	29.1	34.1	C60	NQ-Core		Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 2" thick), slightly weathered, thinly laminated to medium bedded. CLAY seam (1/4" thick) @ 29.1'.		78%
31							<i>Weathered horizontal fractures @ 32.1' and 32.2'.</i>		
32							Recovery: 60"/60" = 100% RQD: 47"/60" = 78%		
33							13 Pieces, 0" Chips and Fragments		
34							2 - 2.75 min/ft, no water loss		
34							<i>Coring conducted in 4th gear, 1800-2000 rpm, 450 psi down pressure.</i>		
35							Bottom of Boring @ 34.1'		
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 CME Associates, Inc.		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.	B-625
								Page No.	1 of 2
								Project No.	28062
Project Name:	Micron Campus, Clay, New York							Date Started	04/30/24
Client:	Ramboll							Date Finished	04/30/24
Location:	See Exploration Location Plan							Surface Elev.	385.8'
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller:	Beau Fletcher	Casing:	3 ¼" ID H.S.A.			Date	Time	Depth (Ft.)	Casing At (Ft.)
Driller:	Ryan Casatelli	Casing Hammer:							
Inspector:		Other:	NQ-Core			04/30/24	While Drilling	8.4	13.5
Drill Rig:	CME 55	Soil Sampler:	2" OD Split Barrel			04/30/24	Before Casing Removed	None Noted	26.0
Type:	ATV	Hammer Wt:	140 lbs.			04/30/24	After Casing Removed	4.0 *	out
Rod Size:	AWJ	Hammer Fall:	30 in.			04/30/24	After Casing Removed	caved @ 6.0	out
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/16	WH-1-1-3		Brown SILT, little ORGANIC MATERIAL, trace fine SAND (moist, soft)		2
1									
2	2	2.0	4.0	SS/23	8-9-7-7		Brown SILT, some cmf SAND, little mf GRAVEL (wet, very stiff)		16
3									
4	3	4.0	5.4	SS/14	5-32-50@5"		Brown cmf SAND, some mf GRAVEL, trace SILT (moist, very compact) <i>Auger Refusal @ 5.5' possibly due to boulder Augered to 8.0'</i>		50+
5									
6									
7									
8	4	8.0	10.0	SS/24	40-35-40-29		Brown cmf SAND, some cmf GRAVEL, trace SILT (moist, very compact)		75
9									
10									
11									
12									
13	5A	13.5	14.5	SS/12	34-39-50@2"		Grey cmf SAND, some mf GRAVEL, little SILT (moist, very compact)		50+
14	5B	14.5	14.7				Grey highly weathered ROCK Fragments (Shale) and ROCK Flour (moist)		
15									
16	R-1	16.0	21.0	C/60	NQ-Core		<i>Auger Refusal @ 16.0' - set up to core</i>		
17							Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 2.0" thick), slightly to moderately weathered, medium hard to hard. <i>Weathered horizontal fractures @ 16.7', 17.7', 17.8', 18.2', 18.3', 18.6', 18.7', 19.1', 19.2' and 19.4'.</i> <i>Broken and fractured zone @ 19.5' - 20.3'.</i> Recovery: 60"/60" = 100% RQD: 10"/60" = 17%		17%
18									
19							23 Pieces, 6" Chips and Fragments		
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: *Water added to boring for coring.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.	B-625
								Page No.	2 of 2
								Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20	R-2	21.0	26.0	C/60	NQ-Core		Continued from Page 1 1:00 min/ft, no water loss Coring conducted in 4th gear, 1500 rpm, 700 psi down pressure. Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 1.0" thick), slightly to moderately weathered, thinly laminated to thinly bedded, hard. Horizontal fractures with weathering @ 21.3', 21.5', 22.3', 24.9', 25.3', 25.5', 25.6' and 25.8'. Recovery: 60"/60" = 100% RQD: 25"/60" = 42% 28 Pieces, 2" Chips and Fragments 1:00 min/ft, no water loss Coring conducted in 4th gear, 1500 rpm, 700 psi down pressure.		42%
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-626			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/19/24			
Client: Ramboll				Date Finished		04/19/24			
Location: See Exploration Location Plan				Surface Elev.		385.4'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Al Linstruth		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: John Winks		Casing Hammer:							
Inspector:		Other:							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/19/24	While Drilling	15.0	18.5		
				04/19/24	Before Casing Removed	14.7	20.8		
				04/19/24	After Casing Removed	None Noted	out		
				04/19/24	After Casing Removed	caved @	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/16	4-1-1-3		Brown/Grey mottled SILT, trace CLAY, trace ORGANIC MATERIAL (moist, soft)		2
1									
2	2	2.0	4.0	SS/18	3-4-4-4		Similar as above (wet, stiff)		8
3									
4	3	4.0	6.0	SS/19	3-4-3-3		Brown SILT, trace CLAY (wet, medium stiff)		7
5									
6	4	6.0	8.0	SS/17	3-4-3-4		Brown SILT, little CLAY (wet, medium stiff)		7
7									
8	5	8.0	10.0	SS/18	2-3-3-3		Brown SILT, trace CLAY (wet, medium stiff)		6
9									
10									
11									
12									
13	6A	13.5	14.0	SS/18	3-6-6		Grey SILT, some cmf GRAVEL, little cmf SAND, trace CLAY (wet, stiff)		12
14	6B	14.0	15.0				Brown SILT, trace CLAY (wet)		
15									
16									
17									
18	7	18.5	20.0	SS/0	6-5-6		Dark Grey/Black ROCK Fragments (Shale), some SILT, little cmf SAND, trace fine GRAVEL (wet)		11
19							See Remark 1		
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: 1. No recovery with a 2" spoon; therefore a 3" spoon was utilized.



6035 Corporate Drive
East Syracuse, NY 13057
Phone: 315-701-0522

SUBSURFACE EXPLORATION TEST BORING LOG

Boring No.**B-626****Page No.**

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Project No.

28062

LOG OF BORING SAMPLES**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20	8	20.7	20.8		50@1"		Continued from Page 1		50+
21						Grey ROCK Fragments (Shale) (wet)			
22						Split Spoon and Auger Refusal @ 20.8'			
23						Bottom of Boring @ 20.8'			
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-627			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/30/24			
Client: Ramboll				Date Finished		04/30/24			
Location: See Exploration Location Plan				Surface Elev.		383.0'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/30/24	While Drilling	2.5	8.0		
				04/30/24	Before Casing Removed	7.8	21.0		
				04/30/24	After Casing Removed	3.5	out		
				04/30/24	After Casing Removed	caved @ 5.5	out		
LOG OF BORING SAMPLES				VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/12	WH-1-1-3		Topsoil and Organic Material (moist)		2
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace fine SAND (moist, soft)		
2	2	2.0	4.0	SS/14	4-5-6-4		Brown/Grey mottled SILT, trace CLAY (wet, stiff)		11
3									
4	3	4.0	6.0	SS/17	1-2-4-4		Brown SILT, trace CLAY (wet, medium stiff)		6
5									
6	4	6.0	8.0	SS/24	3-4-4-4		Similar as above (wet, stiff)		8
7									
8	5	8.0	10.0	SS/23	4-4-4-5		Similar as above (wet, stiff)		8
9									
10									
11									
12							Augered gravelly beginning @ 11.8'		
13	6	13.0	15.0	SS/10	2-9-8-8		Grey cmf GRAVEL, little SILT, little cmf SAND (wet, medium compact)		17
14									
15									
16									
17									
18	7	18.0	20.0	SS/10	12-5-6-6		Grey cmf GRAVEL and cmf SAND, little SILT (wet, medium compact)		11
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.	B-627
								Page No.	2 of 2
								Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20	8	21.0	21.1	SS/1	50@1"		Continued from Page 1 <i>Augers harder beginning @ 20.5'</i> Black ROCK Fragments (Shale) (wet) <i>Split Spoon and Auger Refusal @ 21.1'.</i>		50+
21							Bottom of Boring @ 21.1'		
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-628																					
						Page No.		1 of 1																					
						Project No.		28062																					
Project Name: Micron Campus, Clay, New York						Date Started		04/30/24																					
Client: Ramboll						Date Finished		04/30/24																					
Location: See Exploration Location Plan						Surface Elev.		381.4'																					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																							
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>04/30/24</td> <td>While Drilling</td> <td>None Noted</td> <td>6.0</td> </tr> <tr> <td>04/30/24</td> <td>Before Casing Removed</td> <td>None Noted</td> <td>11.0</td> </tr> <tr> <td>04/30/24</td> <td>After Casing Removed</td> <td>None Noted</td> <td>out</td> </tr> <tr> <td>04/30/24</td> <td>After Casing Removed</td> <td>caved @ 6.9</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	04/30/24	While Drilling	None Noted	6.0	04/30/24	Before Casing Removed	None Noted	11.0	04/30/24	After Casing Removed	None Noted	out	04/30/24	After Casing Removed	caved @ 6.9	out				
Date	Time	Depth (Ft.)	Casing At (Ft.)																										
04/30/24	While Drilling	None Noted	6.0																										
04/30/24	Before Casing Removed	None Noted	11.0																										
04/30/24	After Casing Removed	None Noted	out																										
04/30/24	After Casing Removed	caved @ 6.9	out																										
Driller: K. Crandall		Casing Hammer:																											
Inspector: C. O'Hara		Other:																											
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel																											
Type: ATV		Hammer Wt: 140 lbs.																											
Rod Size: AWJ		Hammer Fall: 30 in.																											
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %																				
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%																						
0	1A	0.0	0.6	SS/16	4-WH-2-1		Topsoil and Organic Material (moist)		2																				
1	1B	0.6	2.0				Brown SILT, little CLAY, trace fine SAND (moist, soft)																						
2	2	2.0	4.0	SS/15	1-4-3-4		Brown SILT, trace CLAY (wet, medium stiff)		7																				
3																													
4	3	4.0	6.0	SS/11	7-7-6-5		Similar as above (wet, stiff)		13																				
5																													
6	4	6.0	8.0	SS/14	4-5-4-4		Similar as above (wet, stiff)		9																				
7																													
8	5	8.0	8.6	SS/7	5-50@1"		Brown SILT, little cmf SAND, trace CLAY (wet, hard) <i>Augers like Cobble beginning @ 8.5'</i>		50+																				
9																													
10																													
11	6	11.0	11.0	SS/0	50@0"		Split Spoon and Auger Refusal @ 11.0'		50+																				
12							Bottom of Boring @ 11.0'																						
13																													
14																													
15																													
16																													
17																													
18																													
19																													
20																													

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-629			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/01/24			
Client: Ramboll				Date Finished		05/01/24			
Location: See Exploration Location Plan				Surface Elev.		383.3'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/01/24	While Drilling	3.4	8.0		
				05/01/24	Before Casing Removed	9.0	23.7		
				05/01/24	After Casing Removed	8.0	out		
				05/01/24	After Casing Removed	caved @ 15.9	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/15	1-WH-2-4		Topsoil and Organic Material (moist)		2
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace fine SAND, trace ORGANIC MATERIAL (moist, soft)		
2	2	2.0	4.0	SS/13	4-4-4-4		Brown SILT, trace CLAY (moist, stiff)		8
3									
4	3	4.0	6.0	SS/17	6-10-8-7		Similar as above (wet, very stiff)		18
5									
6	4	6.0	8.0	SS/16	5-6-6-7		Brown SILT, trace CLAY, trace fine GRAVEL, trace cmf SAND (wet, stiff)		12
7									
8	5	8.0	10.0	SS/18	5-7-8-7		Brown/Grey SILT, trace CLAY (moist, very stiff)		15
9									
10									
11									
12									
13	6	13.0	15.0	SS/14	WH-2-3-2		Grey SILT, little CLAY (wet, medium stiff)		5
14									
15									
16									
17									
18	7	18.0	20.0	SS/15	1-1-1-2		Grey CLAY, little SILT, trace cmf SAND, trace fine GRAVEL (wet, soft)		2
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.	B-629
							Page No.	2 of 2		
							Project No.	28062		
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	8A	20.0	20.3	SS/8	3-9-7-10		Continued from Page 1 Similar as above (moist, very stiff) Grey CLAY, some cmf GRAVEL, little SILT, trace cmf SAND (wet, very stiff)		16	
21	8B	20.3	22.0							
22										
23	9	23.7	23.9	SS/1	50@2"		Augers like Rock starting @ 23.1' Black SHALE Fragments Split Spoon and Auger Refusal @ 23.9'		50+	
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-630			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/29/24			
Client: Ramboll				Date Finished		04/29/24			
Location: See Exploration Location Plan				Surface Elev.		381.7'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Gary Richards		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: John Winks		Casing Hammer:							
Inspector:		Other: NQ-Core							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/29/24	While Drilling	4.1	14.0		
				04/29/24	Before Casing Removed	2.2	22.0		
				04/29/24	After Casing Removed	2.2	out		
				04/29/24	After Casing Removed	caved @ 14.0	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/5	WH-WH-2-4		Brown SILT, little cmf SAND, trace woody ORGANIC MATERIAL (moist, soft)		2
1									
2	2	2.0	4.0	SS/15	7-6-6-6		Brown/Grey SILT, trace CLAY, trace fine SAND (wet, stiff)		12
3									
4	3	4.0	6.0	SS/17	6-5-7-6		Similar as above (wet, stiff)		12
5									
6	4	6.0	8.0	SS/17	5-6-7-11		Similar as above (wet, stiff)		13
7									
8	5	8.0	10.0	SS/14	6-8-8-7		Brown SILT, trace fine SAND (wet, very stiff)		16
9									
10									
11									
12									
13									
14	6	14.0	15.5	SS/14	WH-1-4		Brown SILT, little fine SAND, trace CLAY (wet, very soft)		1
15									
16	7	15.5	17.5	SS/15	WH-WH-2-2		Brown CLAY, some SILT, trace cmf SAND, trace mf GRAVEL (wet, soft)		2
17									
18	8	17.5	19.5	SS/15	16-6-9-15		Brown cmf GRAVEL, some SILT, little CLAY, little cmf SAND (wet, medium compact)		15
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.	B-630
								Page No.	2 of 2
								Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20	9 R-1	22.0 22.0	22.0 27.0	SS/0 C/57	50@0" NQ-Core		Continued from Page 1		50+ 72%
21									
22							<i>Spoon Refusal @ 22.0' - set up to core</i>		
23							Grey DOLOSTONE with interbedded SHALE (<1/8" - 2.0" thick), slightly weathered, thinly laminated to medium bedded, medium hard to hard.		
24							<i>Weathered broken and fractured zone (1/2" thick) @ 22.8'.</i>		
25	R-2	27.0	32.0	C/57	NQ-Core		Recovery: 57"/60" = 95% RQD: 43"/60" = 72% 11 Pieces, 1" Chips and Fragments 1:20 min/ft, no water loss <i>Coring conducted in 4th gear, 1700 rpm, 700 psi down pressure.</i>		95%
26							Grey DOLOSTONE with interbedded SHALE (<1/8" - 1/4" thick), slightly weathered, thinly laminated to medium bedded, hard.		
27							SILT seam (1/8" thick) @ 29.3'.		
28							Recovery: 57"/60" = 95%		
29							RQD: 57"/60" = 95%		
30							10 Pieces, 0" Chips and Fragments		
31							57 sec/ft, no water loss		
32							<i>Coring conducted in 4th gear, 1700 rpm, 700 psi down pressure.</i>		
33									
34									
35							Bottom of Boring @ 32.0'		
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-631			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/30/24			
Client: Ramboll				Date Finished		04/30/24			
Location: See Exploration Location Plan				Surface Elev.		384.5'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/30/24	While Drilling	5.7	13.0		
				04/30/24	Before Casing Removed	6.0	25.7		
				04/30/24	After Casing Removed	8.8	out		
				04/30/24	After Casing Removed	caved @ 12.5	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.6	SS/17	1-1-1-3		Topsoil and Organic Material (moist)		2
1	1B	0.6	2.0				Brown SILT, trace CLAY, trace mf SAND (moist, soft)		
2	2	2.0	4.0	SS/14	3-4-4-5		Brown/Grey SILT, little CLAY (moist, stiff)		8
3									
4	3	4.0	6.0	SS/16	6-3-2-4		Similar as above (wet, medium stiff)		5
5									
6	4	6.0	8.0	SS/17	5-6-7-8		Brown SILT, trace CLAY (moist, stiff)		13
7									
8	5	8.0	10.0	SS/20	6-7-7-8		Similar as above (wet, stiff)		14
9									
10									
11									
12									
13	6	13.0	15.0	SS/13	3-4-4-2		Brown SILT, trace fine SAND, trace SILT (wet, stiff)		8
14									
15									
16									
17									
18	7	18.0	20.0	SS/16	WH-1-2-1		Grey CLAY, little SILT, trace fine GRAVEL, trace cmf SAND (wet, soft)		3
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.	B-631
								Page No.	2 of 2
								Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20	8	20.0	22.0	S/24	WH-1-5-8		Continued from Page 1 Brown/Red CLAY, little SILT, trace mf GRAVEL, trace cmf SAND (wet, medium stiff)		6
21							----- <i>Augers gravelly beginning @ 21.1'</i>		
22									
23	9	23.0	25.0	SS/5	5-7-10-12		Grey cmf GRAVEL, some cmf SAND, trace SILT (wet, medium compact)		17
24									
25									
26	10	25.7	25.7	SS/0	50@0"		Black SHALE Fragments in tip of spoon. Split Spoon and Auger Refusal @ 25.7'		50+
27							Bottom of Boring @ 25.7'		
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-632			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/30/24			
Client: Ramboll				Date Finished		04/30/24			
Location: See Exploration Location Plan				Surface Elev.		383.8'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector:		Other: NQ-Core							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/30/24	While Drilling	7.7	13.5		
				04/30/24	Before Casing Removed	None Noted	32.0		
				04/30/24	After Casing Removed	5.3	out		
				04/30/24	After Casing Removed	caved @ 17.6	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/16	1-1-1-4		Topsoil and Organic Material (moist)		2
1	1B	0.5	2.0				Brown/Grey SILT, little CLAY, trace ROOTS, trace fine SAND (moist, stiff)		
2	2	2.0	4.0	SS/22	4-5-7-6		Brown/Grey mottled SILT, trace CLAY (moist, stiff)		12
3									
4	3	4.0	6.0	SS/5	4-5-6-4		Brown SILT, little CLAY, trace mf GRAVEL, trace cmf SAND (wet, stiff)		11
5									
6	4	6.0	8.0	SS/14	6-7-8-7		Brown SILT, some cmf GRAVEL, trace cmf SAND (wet, very stiff)		15
7									
8	5	8.0	10.0	SS/19	3-3-5-5		Brown SILT, trace CLAY, trace fine SAND (wet, stiff)		8
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/17	3-2-2		Brown/Grey SILT, little CLAY, trace fine SAND (wet, medium stiff)		4
15									
16									
17									
18									
19	7	18.5	20.0	SS/12	6-5-7		Grey cmf SAND and SILT, some mf GRAVEL (wet, medium compact)		12
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No. B-632	
									Page No. 2 of 2	
									Project No. 28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	R-1	22.0	27.0	C/60	NQ-Core		Continued from Page 1		95%	
21										
22							<i>Auger Refusal @ 22.0' - Set up to core.</i>			
23							Grey DOLOSTONE with interbedded SHALE layers (1/8" - 1.0" thick), slightly weathered, laminated to thinly bedded, medium hard to hard.			
24							<i>Weathered and broken zone (1/2" thick) @ 23.1'.</i> Recovery: 60"/60" = 100% RQD: 57"/60" = 95% 11 Pieces, 0" Chips and Fragments <i>1:15 min/ft, no water loss</i>			
25	R-1	27.0	32.0	C/56	NQ-Core		Coring conducted in 4th gear, 1700 rpm, 700 psi down pressure. Grey DOLOSTONE with interbedded SHALE layers (~1/4" thick), slightly weathered, laminated to thickly bedded, hard. <i>Weathered fractures @ 27.4' and 27.6'.</i> Recovery: 56"/60" = 93% RQD: 52"/60" = 87% 8 Pieces, 3" Chips and Fragments <i>1:00 min/ft, no water loss</i>		87%	
26										
27										
28										
29										
30							Bottom of Boring @ 32.0'			
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-633			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/30/24			
Client: Ramboll				Date Finished		04/30/24			
Location: See Exploration Location Plan				Surface Elev.		380.9'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/30/24	While Drilling	4.9	13.0		
				04/30/24	Before Casing Removed	4.5	21.5		
				04/30/24	After Casing Removed	3.7	out		
				04/30/24	After Casing Removed	caved @ 9.0	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/14	WH-1-2-5		Topsoil and Organic Material (moist)		3
1	1B	0.6	2.0				Brown SILT, trace CLAY, trace fine SAND (moist, soft)		
2	2	2.0	4.0	SS/16	5-4-5-5		Brown SILT, trace CLAY (moist, stiff)		9
3									
4	3	4.0	6.0	SS/15	4-5-6-6		Similar as above (wet, stiff)		11
5									
6	4	6.0	8.0	SS/21	4-5-6-5		Similar as above (wet, stiff)		11
7									
8	5	8.0	10.0	SS/20	4-4-5-5		Similar as above (wet, stiff)		9
9									
10									
11									
12							Augers gravelly beginning @ 11.5'		
13	6	13.0	15.0	SS/9	5-3-14-13		Red/Brown SILT, little mf GRAVEL, little CLAY, trace cmf SAND (wet, very stiff)		17
14									
15									
16									
17									
18	7	18.0	20.0	SS/16	7-11-10-30		Grey cmf GRAVEL, some cmf SAND, some SILT (wet, medium compact)		21
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No. B-633	
						Page No. 2 of 2				
						Project No. 28062				
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) FromTo		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	8	21.5	21.7	SS/1	50@2"		Continued from Page 1		50+	
21							Grey SHALE Fragments			
22							Split Spoon and Auger Refusal @ 21.7'			
23							Bottom of Boring @ 21.7'			
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-664			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		04/24/24			
Client: Ramboll				Date Finished		04/24/24			
Location: See Exploration Location Plan				Surface Elev.		389.8'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector:		Other: NQ-Core							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		04/24/24	While Drilling	13.2	18.5		
				04/24/24	Before Casing Removed	None Noted	30.1		
				04/24/24	After Casing Removed	6.0 *	out		
				04/24/24	After Casing Removed	caved @ 17.0	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/18	WH-1-1-2		Topsoil and Organic Material (moist)		2
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace fine SAND, trace ORGANIC MATERIAL (moist, soft)		
2	2	2.0	4.0	SS/22	6-5-4-4		Brown/Grey mottled SILT, trace CLAY (moist, stiff)		9
3									
4	3	4.0	6.0	SS/16	2-3-3-4		Brown CLAY, some SILT (moist, medium stiff)		6
5									
6	4	6.0	8.0	SS/18	4-4-4-3		Brown/Grey SILT, little CLAY (wet, stiff)		8
7									
8	5	8.0	10.0	SS/20	2-2-2-2		Brown SILT, trace CLAY (wet, medium stiff)		4
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/18	3-3-4		Brown SILT, trace CLAY (wet, medium stiff)		7
15									
16									
17									
18									
19	7	18.5	20.0	SS/18	2-4-8		Grey SILT and cmf GRAVEL, little CLAY, trace cmf SAND (wet, stiff)		12
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: * Water added to boring for coring.

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No. B-664	
						Page No. 2 of 2				
						Project No. 28062				
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	8	23.5	25.0	SS/15	23-13-50		Continued from Page 1		63	
21										
22										
23										
24							Dark Grey SILT, some cmf GRAVEL, little highly weathered ROCK Fragments (Shale), trace cmf SAND, trace CLAY (wet, hard)			
25	R-1	25.1	30.1	C/59	NQ-Core		Auger Refusal @ 25.1'. Set up to Core.		80%	
26							Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 1.0" thick), slightly weathered, thinly laminated to medium bedded, hard. Weathered horizontal fracture @ 25.5'. Recovery: 59"/60" = 98% RQD: 48"/60" = 80% 14 Pieces, 0" Chips and Fragments 1:00 min/ft, no water loss Coring conducted in 4th gear, 1500 rpm, 700 psi down pressure.			
27										
28										
29										
30	R-2	30.1	35.1	C/59	NQ-Core		Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 1.0" thick), slightly weathered, thinly laminated to thickly bedded, hard. Weathered and broken zone (1/2" thick) @ 30.3'. Recovery: 59"/60" = 98% RQD: 56"/60" = 93% 9 Pieces, 0" Chips and Fragments 1:00 min/ft, no water loss Coring conducted in 4th gear, 1500 rpm, 700 psi down pressure.		93%	
31										
32										
33										
34										
35							Bottom of Boring @ 35.1'			
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-666			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/06/24			
Client: Ramboll				Date Finished		05/06/24			
Location: See Exploration Location Plan				Surface Elev.		399.1'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/06/24	While Drilling	4.0	6.0		
				05/06/24	Before Casing Removed	2.8	10.2		
				05/06/24	After Casing Removed	2.5	out		
				05/06/24	After Casing Removed	caved @ 5.2	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.3	SS/10	1-WH-2-3		Topsoil and Organic Material (moist)		2
1	1B	0.3	2.0				Brown SILT, trace CLAY, trace fine SAND (moist, soft)		
2	2	2.0	4.0	SS/11	3-3-3-2		Brown SILT, trace CLAY, trace mf GRAVEL, trace cmf SAND (moist, medium stiff)		6
3									
4	3	4.0	6.0	SS/7	7-7-21-24		<i>Augers like Cobble beginning @ 3.5'</i> Brown/Grey SILT and cmf GRAVEL, trace cmf SAND, trace CLAY (moist, very stiff)		28
5									
6	4	6.0	8.0	SS/4	22-18-20-30		Brown/Grey cmf GRAVEL and SILT, trace cmf SAND (moist, compact) <i>Augers harder beginning @ 6.8'</i>		38
7									
8	5	8.0	9.8	SS/15	18-20-30-50@4"		Brown SILT, little cmf GRAVEL, trace cmf SAND (moist, hard)		50
9							<i>Augers like Rock beginning @ 9.2'</i>		
10	6	10.1	10.2	SS/0	50@1"		Black SHALE Fragments in tip of spoon <i>Split Spoon and Auger Refusal @ 10.2'</i>		50+
11							Bottom of Boring @ 10.2'		
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-667					
				Page No.		1 of 1					
				Project No.		28062					
Project Name: Micron Campus, Clay, New York				Date Started		05/06/24					
Client: Ramboll				Date Finished		05/06/24					
Location: See Exploration Location Plan				Surface Elev.		399.4'					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: K. Crandall		Casing Hammer:		05/06/24		While Drilling		8.0		2.0	
Inspector: C. O'Hara		Other:		05/06/24		Before Casing Removed		10.2		10.8	
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel		05/06/24		After Casing Removed		6.5		out	
Type: ATV		Hammer Wt: 140 lbs.		05/06/24		After Casing Removed		caved @ 6.0		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	0.4	SS/13	WR-WH-1-2		Topsoil and Organic Material (moist)				1
1	1B	0.4	2.0				Brown/Grey mottled SILT, little CLAY, trace fine SAND, trace ROOTS (moist, soft)				
2	2	2.0	4.0	SS/14	2-2-3-4		Brown SILT, trace CLAY (moist, medium stiff)				5
3											
4	3	4.0	6.0	SS/15	7-8-8-6		Brown SILT, trace CLAY, trace cmf SAND, trace fine GRAVEL (moist, very stiff)				16
5											
6	4	6.0	8.0	SS/17	20-14-16-20		Brown/Grey SILT, some cmf GRAVEL, trace cmf SAND, trace CLAY (moist, hard)				30
7							Augers like Cobble beginning @ 6.3'				
8	5	8.0	10.0	SS/18	19-36-41-50		Brown/Grey mf GRAVEL and SILT, little cmf SAND (moist, very compact)				77
9											
10							Augers hard @ 10.1'.				
11	6	10.8	11.8	SS/13	19-39-30-38		Grey cmf GRAVEL, little cmf SAND, little SILT (moist, very compact)				69
12											
13							Bottom of Boring @ 12.8'				
14											
15											
16											
17											
18											
19											
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-668			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/07/24			
Client: Ramboll				Date Finished		05/07/24			
Location: See Exploration Location Plan				Surface Elev.		399.5'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/07/24	While Drilling	3.8	8.0		
				05/07/24	Before Casing Removed	6.5	20.5		
				05/07/24	After Casing Removed	None Noted	out		
				05/07/24	After Casing Removed	caved @ 5.1	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.4	SS/12	WH-1-3-5		Topsoil and Organic Material (moist)		4
1	1B	0.4	2.0				Brown SILT, trace CLAY (moist, medium stiff)		
2	2	2.0	4.0	SS/13	3-4-6-5		Brown SILT, little CLAY (moist, stiff)		10
3									
4	3	4.0	6.0	SS/18	3-5-5-8		Brown SILT, trace CLAY (moist, stiff)		10
5									
6	4	6.0	8.0	SS/17	9-14-16-20		Similar as above (moist, hard)		30
7									
8	5	8.0	9.8	SS/16	17-14-11-50@4"		Brown SILT, little mf GRAVEL, trace cmf SAND (moist, very stiff)		25
9							Augered like Cobble beginning @ 8.8'		
10									
11									
12							Augers gravelly beginning @ 11.5'		
13	6	13.0	15.0	SS/10	10-12-7-12		Grey SILT, some mf GRAVEL, little cmf SAND, trace CLAY (wet, very stiff)		19
14									
15									
16									
17									
18	7	18.0	18.8	SS/9	38-50@4"		Grey SILT, some mf GRAVEL, little cmf SAND (wet, hard)		50+
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No. B-668		
								Page No. 2 of 2			
								Project No. 28062			
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
20	8	20.5	20.5	SS/0	50@0"		Continued from Page 1 Black SHALE Fragments in tip of spoon <i>Split Spoon and Auger Refusal @ 20.5'</i>			50+	
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
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36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-669			
						Page No. 1 of 2			
						Project No. 28062			
Project Name: Micron Campus, Clay, New York						Date Started 05/07/24			
Client: Ramboll						Date Finished 05/07/24			
Location: See Exploration Location Plan						Surface Elev. 399.9'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller:	Beau Fletcher	Casing:	3 ¼" ID H.S.A.			Date	Time	Depth (Ft.)	Casing At (Ft.)
Driller:	Ryan Casatelli	Casing Hammer:				05/07/24	While Drilling	None Noted	23.2
Inspector:		Other:	NQ-Core			05/07/24	Before Casing Removed	None Noted	23.2
Drill Rig:	CME 55	Soil Sampler:	2" OD Split Barrel			05/07/24	After Casing Removed	2.0 *	out
Type:	ATV	Hammer Wt:	140 lbs.			05/07/24	After Casing Removed	caved @ 9.6	out
Rod Size:	AWJ	Hammer Fall:	30 in.						
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	1.0	SS/16	1-WH-3-4		Topsoil and Organic Material (moist)		3
1	1B	1.0	2.0				Brown SILT, trace CLAY (moist, stiff)		
2	2	2.0	4.0	SS/20	4-4-5-4		Brown SILT, trace CLAY (wet, stiff)		9
3									
4	3	4.0	6.0	SS/22	5-5-5-5		Brown SILT, trace CLAY (wet, stiff)		10
5									
6	4	6.0	8.0	SS/15	4-4-5-7		Brown/Grey SILT, little cmf GRAVEL, trace cmf SAND (moist, stiff)		9
7									
8	5	8.0	10.0	SS/19	7-9-12-20		Brown/Grey SILT, little cmf GRAVEL, trace cmf SAND (moist, very stiff)		21
9									
10									
11									
12									
13									
14	R-1	13.2	18.2	C/59	NQ-Core		<i>Auger Refusal @ 13.2'. Set up to core.</i> Grey DOLOSTONE with interbedded SHALE layers (<1/8"-2.0" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard.		80%
15							<i>Weathered zones (<1/8"-1/2" thick) @ 13.9', 14.1' and 14.8'.</i> Recovery: 59"/60" = 98% RQD: 48"/60" = 80% 29 Pieces, 1" Chips and Fragments 1:00 min/ft, no water loss Coring conducted in 4th gear, 1700 rpm, 700 psi down pressure.		
16									
17									
18	R-2	18.2	23.2	C/59	NQ-Core		18.2'-20.1': Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 1.0" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard.		80%
19							20.1'-23.2': Dark Grey SHALE with interbedded DOLOSTONE		
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: * Water added to boring for coring.

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.		B-669	
									Page No.		2 of 2	
									Project No.		28062	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) FromTo		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
20							Continued from Page 1 layers (<1/8" - 1.0" thick), thinly laminated to thinly bedded, medium hard to hard. Broken and fractured zone 18.9' - 19.1'. Weathered zone (1/4" - 1.0" thick) @ 21,0', and 21.6' - 21.7'. Recovery: 59"/60" = 98% RQD: 48"/60" = 80% 21 Pieces, 2" Chips and Fragments 1:00 min/ft, no water loss Coring conducted in 4th gear, 1700 rpm, 700 psi down pressure. Bottom of Boring @ 23.2'					
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
41												
42												
43												
44												
45												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-670					
				Page No.		1 of 1					
				Project No.		28062					
Project Name: Micron Campus, Clay, New York				Date Started		05/07/24					
Client: Ramboll				Date Finished		05/07/24					
Location: See Exploration Location Plan				Surface Elev.		400.0'					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: K. Crandall		Casing Hammer:		05/07/24		While Drilling		3.7		6.0	
Inspector: C. O'Hara		Other:		05/07/24		Before Casing Removed		8.5		13.3	
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel		05/07/24		After Casing Removed		4.8		out	
Type: ATV		Hammer Wt: 140 lbs.		05/07/24		After Casing Removed		caved @ 5.3		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	0.4	SS/14	WH-WH-3-4		Topsoil and Organic Material (moist)				3
1	1B	0.4	2.0				Brown/Grey mottled SILT, trace CLAY (wet, soft)				
2	2	2.0	4.0	SS/12	3-4-4-3		Similar as above (moist, stiff)				8
3											
4	3	4.0	6.0	SS/13	WH-2-5-6		Brown SILT, trace CLAY (moist, medium stiff)				7
5											
6	4	6.0	8.0	SS/18	10-14-17-20		Brown SILT, trace CLAY, trace fine SAND (moist, hard)				31
7											
8	5	8.0	10.0	SS/17	9-8-7-15		Brown mf GRAVEL, some cmf SAND, some SILT (wet, medium compact)				15
9							Augers like Cobble beginning @ 9.5'				
10											
11											
12											
13	6	13.0	13.3	SS/0	50@3"		Augers harder beginning @ 12.5' Auger Refusal @ 13.0'				50+
14							Bottom of Boring @ 13.3'				
15											
16											
17											
18											
19											
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-671																			
						Page No. 1 of 1																			
						Project No. 28062																			
Project Name: Micron Campus, Clay, New York						Date Started 05/06/24																			
Client: Ramboll						Date Finished 05/06/24																			
Location: See Exploration Location Plan						Surface Elev. 400.3'																			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																			
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>05/06/24</td> <td>While Drilling</td> <td>None Noted</td> <td>6.0</td> </tr> <tr> <td>05/06/24</td> <td>Before Casing Removed</td> <td>None Noted</td> <td>10.2</td> </tr> <tr> <td>05/06/24</td> <td>After Casing Removed</td> <td>2.8</td> <td>out</td> </tr> <tr> <td>05/06/24</td> <td>After Casing Removed</td> <td>caved @ 4.5</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	05/06/24	While Drilling	None Noted	6.0	05/06/24	Before Casing Removed	None Noted	10.2	05/06/24	After Casing Removed	2.8	out	05/06/24	After Casing Removed	caved @ 4.5	out
Date	Time	Depth (Ft.)	Casing At (Ft.)																						
05/06/24	While Drilling	None Noted	6.0																						
05/06/24	Before Casing Removed	None Noted	10.2																						
05/06/24	After Casing Removed	2.8	out																						
05/06/24	After Casing Removed	caved @ 4.5	out																						
Driller: K. Crandall		Casing Hammer:																							
Inspector: C. O'Hara		Other:																							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel																							
Type: ATV		Hammer Wt: 140 lbs.																							
Rod Size: AWJ		Hammer Fall: 30 in.																							
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %																
		From	To																						
0	1A	0.0	0.5	SS/13	1-WH-4-6		Topsoil and Organic Material (moist)		4																
1	1B	0.5	2.0				Brown/Grey SILT, trace CLAY (moist, medium stiff)																		
2	2	2.0	4.0	SS/16	2-3-3-2		Brown/Grey mottled SILT, trace CLAY (wet, medium stiff)		6																
3																									
4	3	4.0	6.0	SS/18	1-6-11-14		Brown SILT, trace CLAY (moist, very stiff)		17																
5																									
6	4	6.0	8.0	SS/	12-10-11-14		Brown SILT, little mf GRAVEL, trace cmf SAND (wet, very stiff)		21																
7																									
8	5	8.0	10.0	SS/15	10-11-16-32		Brown/Grey SILT, little mf GRAVEL, trace cmf SAND (moist, very stiff)		27																
9																									
10	6	10.2	10.2	SS/0	50@0"		Split Spoon and Auger Refusal @ 10.2'.																		
11							Bottom of Boring @ 10.2'																		
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-672			
						Page No. 1 of 1			
						Project No. 28062			
Project Name: Micron Campus, Clay, New York						Date Started 05/06/24			
Client: Ramboll						Date Finished 05/06/24			
Location: See Exploration Location Plan						Surface Elev. 400.4'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.				Date	Time	Depth (Ft.)	Casing At (Ft.)
Driller: K. Crandall		Casing Hammer:				05/06/24	While Drilling	2.8	6.0
Inspector: C. O'Hara		Other:				05/06/24	Before Casing Removed	6.2	9.3
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel				05/06/24	After Casing Removed	3.0	out
Type: ATV		Hammer Wt: 140 lbs.				05/06/24	After Casing Removed	caved @ 4.1	out
Rod Size: AWJ		Hammer Fall: 30 in.							
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1	0.0	2.0	SS/6	1-WH-1-WH		Brown/Grey SILT, trace ORGANIC MATERIAL, trace mf SAND (moist, very soft)		1
1									
2	2	2.0	4.0	SS/14	2-5-4-3		Brown SILT, trace fine SAND, trace CLAY (wet, stiff)		9
3									
4	3	4.0	6.0	SS/15	WR-1-1-2		Brown/Grey SILT, trace cmf SAND, trace fine GRAVEL, trace CLAY (wet, soft)		2
5									
6	4	6.0	8.0	SS/17	2-15-11-10		Brown/Grey SILT, some mf GRAVEL, little cmf SAND (wet, very stiff)		26
7									
8	5	8.0	9.4	SS/12	14-17-50@5"		Brown/Grey SILT, little mf GRAVEL, trace cmf SAND (moist, hard)		50+
9	6	9.4	9.4	SS/0	50@0"		<i>Augers hard beginning @ 9.2'. Split Spoon and Auger Refusal @ 9.4'. Bottom of Boring @ 9.4'</i>		
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-673			
						Page No. 1 of 1			
						Project No. 28062			
Project Name: Micron Campus, Clay, New York						Date Started 05/06/24			
Client: Ramboll						Date Finished 05/06/24			
Location: See Exploration Location Plan						Surface Elev. 400.7'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller:	H. Lyon	Casing:	3 ¼" ID H.S.A.			Date	Time	Depth (Ft.)	Casing At (Ft.)
Driller:	K. Crandall	Casing Hammer:				05/06/24	While Drilling	None Noted	8.0
Inspector:	C. O'Hara	Other:				05/06/24	Before Casing Removed	None Noted	9.2
Drill Rig:	CME 45	Soil Sampler:	2" OD Split Barrel			05/06/24	After Casing Removed	None Noted	out
Type:	ATV	Hammer Wt:	140 lbs.			05/06/24	After Casing Removed	caved @ 8.8	out
Rod Size:	AWJ	Hammer Fall:	30 in.			05/06/24	After Casing Removed		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.3	SS/13	1-WH-1-3		Topsoil and Organic Material (moist)		1
1	1B	0.3	2.0				Brown SILT, little cmf SAND (wet, very soft)		
2	2	2.0	4.0	SS/15	3-8-5-5		Brown SILT, trace CLAY, trace fine SAND (moist, stiff)		13
3									
4	3	4.0	6.0	SS/14	2-5-5-5		Brown SILT, some cmf SAND, trace CLAY, trace fine GRAVEL (wet, stiff)		10
5									
6	4	6.0	8.0	SS/11	2-5-10-10		<i>Augers gravelly beginning @ 5.5'</i> Brown SILT, little mf GRAVEL, trace cmf SAND (wet, very stiff)		15
7							<i>Augers like Cobble beginning @ 7.4'</i>		
8	5	8.0	9.2	SS/10	11-25-50@2"		Brown/Grey SILT, little cmf SAND, trace fine GRAVEL (moist, hard)		50+
9	6	9.2	9.2	SS/0	50@0"		<i>Split Spoon and Auger Refusal @ 9.2'</i>		50+
10							Bottom of Boring @ 9.2'		
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-674			
						Page No. 1 of 1			
						Project No. 28062			
Project Name: Micron Campus, Clay, New York						Date Started 05/06/24			
Client: Ramboll						Date Finished 05/06/24			
Location: See Exploration Location Plan						Surface Elev. 401.4'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller:	H. Lyon	Casing:	3 ¼" ID H.S.A.			Date	Time	Depth (Ft.)	Casing At (Ft.)
Driller:	K. Crandall	Casing Hammer:				05/06/24	While Drilling	None Noted	6.0
Inspector:	C. O'Hara	Other:				05/06/24	Before Casing Removed	None Noted	7.7
Drill Rig:	CME 45	Soil Sampler:	2" OD Split Barrel			05/06/24	After Casing Removed	None Noted	out
Type:	ATV	Hammer Wt:	140 lbs.			05/06/24	After Casing Removed	caved @ 6.4	out
Rod Size:	AWJ	Hammer Fall:	30 in.						
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5	SS/12	1-4-6-8		Topsoil and Organic Material (moist)		10
1	1B	0.5	2.0				Brown cmf GRAVEL, little cmf SAND, little SILT (moist, medium compact)		
2	2	2.0	4.0	SS/14	9-9-10-10		Brown/Grey cmf GRAVEL and SILT, little cmf SAND (moist, medium compact)		19
3									
4	3	4.0	6.0	SS/6	11-10-16-18		Brown SILT, little cmf GRAVEL, trace cmf SAND (moist, very stiff)		26
5									
6	4	6.0	7.3	SS/16	14-15-50@4"		Similar as above (moist, hard)		50+
7							Augers like Rock beginning @ 7.4'		
8	5	7.7	7.7	SS/0	50@0"		Split Spoon and Auger Refusal @ 7.7'		50+
9							Bottom of Boring @ 7.7'		
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-675			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/06/24			
Client: Ramboll				Date Finished		05/06/24			
Location: See Exploration Location Plan				Surface Elev.		403.9'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Al Lintruth		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: John Winks		Casing Hammer:							
Inspector:		Other: NQ-Core							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/06/24	While Drilling	4.2	4.0		
				05/06/24	Before Casing Removed	4.5 *	10.5		
				05/06/24	After Casing Removed		out		
				05/06/24	After Casing Removed	caved @	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/16	2-2-2-2		Brown SILT, little cmf SAND, trace fine GRAVEL, trace ROOTS (moist, loose)		4
1									
2	2	2.0	4.0	SS/19	2-2-2-2		Brown SILT, little cmf SAND, trace fine GRAVEL (wet, medium stiff)		4
3									
4	3	4.0	6.0	SS/17	1-1-1-1		Brown SILT, little mf GRAVEL, little cmf SAND (wet, very loose)		2
5									
6	4	6.0	8.0	SS/15	3-4-7-7		Brown SILT, some cmf SAND, some mf GRAVEL (wet, stiff)		11
7									
8	5	8.0	10.0	SS/16	6-3-6-11		Similar as above (wet, stiff)		9
9									
10							<i>Auger Refusal @ 10.5'. Set up to core.</i>		
11	R-1	10.5	15.5	C/54	NQ-Core		Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 2.0" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard.		90%
12							<i>Weathered zones (< 1/8" thick) @ 11.0' and 11.6'.</i>		
13							<i>Recovery: 54"/60" = 90% RQD: 54"/60" = 90%</i>		
14							<i>12 Pieces, 0" Chips and Fragments</i>		
15							<i>1:25 min/ft, no water loss</i>		
16	R-2	15.5	20.5	C/60	NQ-Core		Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 3.0" thick), slightly weathered, thinly laminated to thinly bedded, medium hard to hard.		97%
17							<i>Weathered zones (~1/2" thick) @ 19.4'.</i>		
18							<i>Recovery: 60"/60" = 100% RQD: 58"/60" = 97%</i>		
19							<i>19 Pieces, 0" Chips and Fragments</i>		
20							<i>1:10 min/ft, no water loss</i>		
							<i>Coring conducted in 4th gear, 1700 rpm, 550 psi down pressure.</i>		
							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: *Water added to boring for coring.

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.	B-675
									Page No.	2 of 2
									Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20							Continued from Page 1			
Bottom of Boring @ 20.5'										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
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37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-676			
						Page No. 1 of 1			
						Project No. 28062			
Project Name: Micron Campus, Clay, New York						Date Started 05/06/24			
Client: Ramboll						Date Finished 05/06/24			
Location: See Exploration Location Plan						Surface Elev. 404.3'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller: Al Linstruth		Casing: 3 ¼" ID H.S.A.				Date	Time	Depth (Ft.)	Casing At (Ft.)
Driller: John Winks		Casing Hammer:				05/06/24	While Drilling	6.0	4.0
Inspector:		Other:				05/06/24	Before Casing Removed	None Noted	4.0
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel				05/06/24	After Casing Removed	None Noted	out
Type: ATV		Hammer Wt: 140 lbs.				05/06/24	After Casing Removed	caved @	out
Rod Size: AWJ		Hammer Fall: 30 in.							
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1	0.0	2.0	SS/15	1-2-2-4		Brown SILT, little cmf SAND, little mf GRAVEL, trace ORGANIC MATERIAL (moist, medium stiff)		4
1									
2	2	2.0	4.0	SS/16	4-4-3-4		Brown SILT, some cmf SAND, trace fine GRAVEL, trace ORGANIC MATERIAL (moist, medium stiff)		7
3									
4	3	4.0	6.0	SS/18	2-2-3-2		Brown SILT and cmf GRAVEL, some cmf SAND (wet, medium stiff)		5
5									
6	4	6.0	8.0	SS/15	2-12-10-10		Brown SILT, some cmf GRAVEL, little cmf SAND, trace CLAY (wet, very stiff)		22
7									
8	5	8.0	10.0	SS/16	5-10-13-7		Brown SILT and mf GRAVEL, little CLAY, little cmf SAND (wet, very stiff)		23
9									
10									
11							Auger Refusal @ 11.3'		
12							Bottom of Boring @ 11.3'		
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-677			
						Page No. 1 of 1			
						Project No. 28062			
Project Name: Micron Campus, Clay, New York						Date Started 05/06/24			
Client: Ramboll						Date Finished 05/06/24			
Location: See Exploration Location Plan						Surface Elev. 403.8'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller: Al Linstruth Casing: 3 ¼" ID H.S.A.						Date Time Depth (Ft.) Casing At (Ft.)			
Driller: John Winks Casing Hammer:						05/06/24 While Drilling 4.2 8.0			
Inspector:		Other:				05/06/24 Before Casing Removed 4.7 10.5			
Drill Rig: CME 55 Soil Sampler: 2" OD Split Barrel						05/06/24 After Casing Removed 5.4 out			
Type: ATV Hammer Wt: 140 lbs.						05/06/24 After Casing Removed caved @ 6.0 out			
Rod Size: AWJ Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/15	1-2-1-6		Brown SILT, little cmf SAND, trace ORGANIC MATERIAL (moist, soft)		3
1									
2	2	2.0	4.0	SS/14	4-2-2-4		Brown cmf SAND and cmf GRAVEL, some SILT, trace CLAY (moist, loose)		4
3									
4	3	4.0	6.0	SS/17	4-2-4-7		Brown SILT, some mf GRAVEL, little cmf SAND, trace CLAY (moist, medium stiff)		6
5									
6	4	6.0	8.0	SS/15	6-7-14-17		Brown SILT, little cmf SAND, trace CLAY (moist, very stiff)		21
7									
8	5A	8.0	9.0	SS/16	14-17-27-54		Brown cmf SAND, some cmf GRAVEL, little SILT (wet, compact)		44
9	5B	9.0	10.0				Grey/Black weathered ROCK Fragments (Shale) (wet)		
10							Auger Refusal @ 10.5'		
11							Bottom of Boring @ 10.5'		
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-678			
						Page No. 1 of 2			
						Project No. 28062			
Project Name: Micron Campus, Clay, New York						Date Started 05/07/24			
Client: Ramboll						Date Finished 05/07/24			
Location: See Exploration Location Plan						Surface Elev. 398.4'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.				Date	Time	Depth (Ft.)	Casing At (Ft.)
Driller: K. Crandall		Casing Hammer:				05/07/24	While Drilling	None Noted	8.0
Inspector: C. O'Hara		Other:				05/07/24	Before Casing Removed	20.4	24.4
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel				05/07/24	After Casing Removed	None Noted	out
Type: ATV		Hammer Wt: 140 lbs.				05/07/24	After Casing Removed	caved @ 3.8	out
Rod Size: AWJ		Hammer Fall: 30 in.							
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1A	0.0	0.4	SS/14	1-1-2-2		Topsoil and Organic Material (moist)		3
1	1B	0.4	2.0				Brown/Black SILT, trace CLAY, trace woody ORGANIC MATERIAL (moist, soft)		
2	2	2.0	4.0	SS/13	4-6-6-4		Brown SILT, trace CLAY (moist, stiff)		12
3									
4	3	4.0	6.0	SS/14	3-3-4-2		Brown SILT, little CLAY (moist, medium stiff)		7
5									
6	4	6.0	8.0	SS/17	2-4-5-8		Brown SILT, trace CLAY (wet, stiff)		9
7									
8	5	8.0	10.0	SS/16	8-10-10-8		Brown/Grey, Similar as above (moist, very stiff)		20
9									
10									
11									
12									
13	6	13.0	15.0	SS/14	1-3-4-5		Brown/Grey SILT, trace CLAY (wet, medium stiff)		7
14									
15									
16									
17							<i>Augers easier beginning @ 17.0'</i>		
18	7	18.0	20.0	SS/14	WH-2-13-35		Grey SILT, some cmf SAND, trace mf GRAVEL (moist, very stiff)		15
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.	B-678
								Page No.	2 of 2
								Project No.	28062
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20							Continued from Page 1		
21							Augers hard @ 21.4'		
22									
23	8	23.0	23.4	SS/5	50@5"		Grey cmf SAND and fine GRAVEL, little SILT (moist, very compact)		50+
24	9	24.4	24.7	SS/4	50@4"		Auger Refusal @ 24.4'		
25							Grey cmf SAND and SILT, little fine GRAVEL (moist, very compact)		50+
26							Bottom of Boring @ 24.7'		
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-679																					
						Page No.		1 of 2																					
						Project No.		28062																					
Project Name: Micron Campus, Clay, New York						Date Started		05/08/24																					
Client: Ramboll						Date Finished		05/08/24																					
Location: See Exploration Location Plan						Surface Elev.		395.9'																					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																							
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>05/08/24</td> <td>While Drilling</td> <td>None Noted</td> <td>13.0</td> </tr> <tr> <td>05/08/24</td> <td>Before Casing Removed</td> <td>None Noted</td> <td>22.2</td> </tr> <tr> <td>05/08/24</td> <td>After Casing Removed</td> <td>None Noted</td> <td>out</td> </tr> <tr> <td>05/08/24</td> <td>After Casing Removed</td> <td>caved @ 11.7</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	05/08/24	While Drilling	None Noted	13.0	05/08/24	Before Casing Removed	None Noted	22.2	05/08/24	After Casing Removed	None Noted	out	05/08/24	After Casing Removed	caved @ 11.7	out				
Date	Time	Depth (Ft.)	Casing At (Ft.)																										
05/08/24	While Drilling	None Noted	13.0																										
05/08/24	Before Casing Removed	None Noted	22.2																										
05/08/24	After Casing Removed	None Noted	out																										
05/08/24	After Casing Removed	caved @ 11.7	out																										
Driller: K. Crandall		Casing Hammer:																											
Inspector: C. O'Hara		Other:																											
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel																											
Type: ATV		Hammer Wt: 140 lbs.																											
Rod Size: AWJ		Hammer Fall: 30 in.																											
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %																				
		From	To																										
0	1	0.0	2.0	SS/8	WH-1-WH-2		Topsoil and Organic Material (moist)		1																				
1							-----																						
2	2	2.0	4.0	SS/14	4-5-4-7		Brown/Grey mottled SILT, trace CLAY (moist, stiff)		9																				
3																													
4	3	4.0	6.0	SS/15	6-10-9-9		Similar as above (moist, very stiff)		19																				
5																													
6	4	6.0	8.0	SS/17	8-8-7-7		Brown SILT, trace CLAY (moist, very stiff)		15																				
7							-----																						
8	5	8.0	10.0	SS/18	4-8-8-10		Brown SILT, trace mf GRAVEL, trace cmf SAND, trace CLAY (wet, very stiff)		16																				
9																													
10																													
11																													
12							Augers gravelly beginning @ 11.6'																						
13	6	13.0	15.0	SS/10	12-12-22-16		Augers hard beginning @ 12.7' Grey SILT, some cmf SAND, trace fine GRAVEL (moist, hard)		34																				
14																													
15																													
16																													
17							-----																						
18	7	18.0	18.3	SS/3	50@3"		Augers very hard beginning @ 17.0' Grey cmf GRAVEL, little SILT, little cmf SAND (moist, very compact)		50+																				
19																													
20							Continued on Page 2																						

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No. B-679		
						Page No. 2 of 2		Project No. 28062			
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
20	9	22.2	22.5	SS/4	50@4"		Continued from Page 1				
21							Augers very hard beginning @ 22.2'				50+
22						Dark Grey weathered ROCK Fragments (Shale), little cmf SAND, little SILT (moist, very compact)					
23						Bottom of Boring @ 22.5'					
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-680			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/07/24			
Client: Ramboll				Date Finished		05/07/24			
Location: See Exploration Location Plan				Surface Elev.		399.5'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:		05/07/24	While Drilling	None Noted	13.0		
Inspector: C. O'Hara		Other:		05/07/24	Before Casing Removed	11.6	17.4		
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel		05/07/24	After Casing Removed	4.1	out		
Type: ATV		Hammer Wt: 140 lbs.		05/07/24	After Casing Removed	caved @ 11.0	out		
Rod Size: AWJ		Hammer Fall: 30 in.							
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/16	1-WH-1-4		Topsoil and Organic Material (moist)		1
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace fine SAND (moist, soft)		
2	2	2.0	4.0	SS/18	4-4-5-4		Brown SILT, trace CLAY (moist, stiff)		9
3									
4	3	4.0	6.0	SS/14	5-6-6-6		Brown/Grey SILT, trace CLAY, trace fine SAND (moist, stiff)		12
5									
6	4	6.0	8.0	SS/16	9-10-11-12		Similar as above (moist, very stiff)		21
7									
8	5	8.0	10.0	SS/19	8-10-10-11		Brown SILT, trace CLAY (moist, very stiff)		20
9									
10									
11									
12									
13	6	13.0	15.0	SS/11	4-4-6-14		Augers gravelly beginning @ 12.7' Dark Grey SILT, some mf GRAVEL, little CLAY, trace cmf SAND (moist, stiff)		10
14									
15									
16									
17	7	17.4	17.4	SS/0	50@0"		Augers like Rock beginning @ 16.7' Split Spoon and Auger Refusal @ 17.4'		50+
18							Bottom of Boring @ 17.4'		
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-681							
						Page No. 1 of 1							
						Project No. 28062							
Project Name: Micron Campus, Clay, New York						Date Started 05/08/24							
Client: Ramboll						Date Finished 05/08/24							
Location: See Exploration Location Plan						Surface Elev. 395.6'							
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS							
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.				Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: K. Crandall		Casing Hammer:				05/08/24		While Drilling		1.7			
Inspector: C. O'Hara		Other:				05/08/24		Before Casing Removed		None Noted		13.0	
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel				05/08/24		After Casing Removed		None Noted		out	
Type: ATV		Hammer Wt: 140 lbs.				05/08/24		After Casing Removed		caved @ 6.7		out	
Rod Size: AWJ		Hammer Fall: 30 in.											
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%			SPT "N" or RQD %	
0	1A	0.0	0.3	SS/12	WH-1-1-2		Topsoil and Organic Material (moist)					2	
1	1B	0.3	2.0				Miscellaneous FILL; Black cinders, fine gravel, cmf sand, silt (wet)						
2	2	2.0	4.0	SS/18	9-8-7-7		Brown SILT, trace CLAY, trace fine SAND (moist, stiff)					15	
3													
4	3	4.0	6.0	SS/17	2-6-8-12		Similar as above (moist, stiff)					14	
5													
6	4	6.0	8.0	SS/15	11-7-6-7		Brown SILT, little cmf SAND, trace mf GRAVEL, trace CLAY (wet, stiff)					13	
7													
8	5	8.0	9.4	SS/14	11-28-50@5"		Brown SILT, some cmf SAND, trace fine GRAVEL (moist, hard) <i>Augers like Cobble beginning @ 8.5'</i>					50+	
9													
10													
11													
12							<i>Augers harder beginning @ 11.7'</i>						
13	6	13.0	13.9	SS/10	83-50@5"		Grey SILT, trace fine SAND, trace CLAY (moist, hard)					50+	
14							Bottom of Boring @ 13.9'						
15													
16													
17													
18													
19													
20													

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-682			
						Page No.		1 of 1			
						Project No.		28062			
Project Name: Micron Campus, Clay, New York						Date Started		05/08/24			
Client: Ramboll						Date Finished		05/08/24			
Location: See Exploration Location Plan						Surface Elev.		393.3'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: K. Crandall		Casing Hammer:		05/08/24		While Drilling		None Noted		4.0	
Inspector: C. O'Hara		Other:		05/08/24		Before Casing Removed		None Noted		6.5	
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel		05/08/24		After Casing Removed		None Noted		out	
Type: ATV		Hammer Wt: 140 lbs.		05/08/24		After Casing Removed		caved @ 4.0		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	0.8	SS/15	1-WH-1-2		Topsoil and Organic Material (moist)				1
1	1B	0.8	2.0				Brown SILT, trace CLAY, trace fine SAND (moist, soft)				
2	2	2.0	4.0	SS/17	6-4-5-4		Brown SILT, little cmf SAND, trace fine GRAVEL, trace CLAY (moist, stiff)				9
3											
4	3	4.0	6.0	SS/16	17-18-23-24		Brown cmf SAND, some SILT, little cmf GRAVEL (moist, compact)				41
5											
6	4	6.0	6.4	SS/5	50@5"		Brown SILT, little cmf SAND, trace fine GRAVEL (moist, hard)				50+
7	5	6.5	6.6		50@1"		Augers extremely hard beginning @ 6.4'				
8							Brown SILT, little cmf SAND (moist, hard)				50+
9							Bottom of Boring @ 6.6'				
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-683			
						Page No. 1 of 2			
						Project No. 28062			
Project Name: Micron Campus, Clay, New York						Date Started 05/07/24			
Client: Ramboll						Date Finished 05/08/24			
Location: See Exploration Location Plan						Surface Elev. 394.8'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.				Date	Time	Depth (Ft.)	Casing At (Ft.)
Driller: Ryan Casatelli		Casing Hammer:				05/08/24	While Drilling	3.3	13.5
Inspector:		Other:				05/08/24	Before Casing Removed	27.4	28.5
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel				05/08/24	After Casing Removed	6.0	out
Type: ATV		Hammer Wt: 140 lbs.				05/08/24	After Casing Removed	caved @ 8.3	out
Rod Size: AWJ		Hammer Fall: 30 in.							
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5	SS/17	1-7-4-12		Topsoil and Organic Material (moist)		11
1	1B	0.5	2.0				Grey/Brown cmf GRAVEL and cmf SAND, trace SILT (moist, medium compact)		
2	2	2.0	4.0	SS/16	5-6-11-13		Brown/Dark Grey SILT, trace fine SAND (moist, very stiff)		17
3									
4	3	4.0	6.0	SS/219	8-10-11-12		Brown/Grey SILT, trace fine SAND, trace CLAY (moist, very stiff)		21
5									
6	4	6.0	8.0	SS/24	7-5-7-7		Brown SILT, little cmf SAND, trace mf GRAVEL (wet, stiff)		12
7									
8	5	8.0	9.7	SS/15	3-9-11-50@2"		Grey SILT, some cmf SAND, little cmf GRAVEL (wet, very stiff)		20
9									
10									
11									
12									
13									
14	6	13.5	14.4	SS/7	19-50@5"		Grey SILT, trace mf GRAVEL, trace cmf SAND, trace CLAY (moist, hard)		50+
15									
16									
17									
18									
19	7	18.5	19.8	SS/13	17-45-50@4"		Grey SILT, some cmf SAND, little CLAY, trace fine GRAVEL (moist, hard)		50+
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: * Water added to boring for coring.

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No. B-683	
						Page No. 2 of 2				
						Project No. 28062				
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) FromTo		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	8	23.5	23.9	SS/5	50@5"		Continued from Page 1		50+	
21										
22										
23										
24										
25	9	28.5	29.3	SS/8	30-50@4"		Grey SILT, trace mf GRAVEL, trace cmf SAND (moist, hard)		50+	
26										
27										
28										
29										
30							Bottom of Boring @ 30.0'			
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-684																			
						Page No. 1 of 1																			
						Project No. 28062																			
Project Name: Micron Campus, Clay, New York						Date Started 05/08/24																			
Client: Ramboll						Date Finished 05/08/24																			
Location: See Exploration Location Plan						Surface Elev. 394.0'																			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																			
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>05/08/24</td> <td>While Drilling</td> <td>4.5</td> <td>8.0</td> </tr> <tr> <td>05/08/24</td> <td>Before Casing Removed</td> <td>3.2</td> <td>13.0</td> </tr> <tr> <td>05/08/24</td> <td>After Casing Removed</td> <td>3.7</td> <td>out</td> </tr> <tr> <td>05/08/24</td> <td>After Casing Removed</td> <td>caved @ 6.7</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	05/08/24	While Drilling	4.5	8.0	05/08/24	Before Casing Removed	3.2	13.0	05/08/24	After Casing Removed	3.7	out	05/08/24	After Casing Removed	caved @ 6.7	out
Date	Time	Depth (Ft.)	Casing At (Ft.)																						
05/08/24	While Drilling	4.5	8.0																						
05/08/24	Before Casing Removed	3.2	13.0																						
05/08/24	After Casing Removed	3.7	out																						
05/08/24	After Casing Removed	caved @ 6.7	out																						
Driller: K. Crandall		Casing Hammer:																							
Inspector: C. O'Hara		Other:																							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel																							
Type: ATV		Hammer Wt: 140 lbs.																							
Rod Size: AWJ		Hammer Fall: 30 in.																							
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %																
		From	To																						
0	1A	0.0	0.5	SS/13	1-WH-1-2		Topsoil and Organic Material (moist)		1																
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace ORGANIC MATERIAL (moist, very soft)																		
2	2	2.0	4.0	SS/14	2-6-5-6		Brown SILT, trace CLAY, trace fine SAND (moist, stiff)		11																
3																									
4	3	4.0	6.0	SS/15	2-2-8-10		Brown SILT, little cmf GRAVEL, trace cmf SAND (wet, stiff)		10																
5																									
6	4	6.0	8.0	SS/12	8-17-21-29		<i>Augers harder beginning @ 5.5'</i> Brown SILT, little mf GRAVEL, trace cmf SAND (moist, hard)		38																
7																									
8	5	8.0	9.4	SS/10	19-28-50@5"		Grey SILT, little fine GRAVEL, trace cmf SAND (moist, hard)		50+																
9																									
10																									
11																									
12																									
13	6	13.0	14.3	SS/11	27-34-50@4"		Grey SILT, little mf GRAVEL, trace CLAY, trace cmf SAND (moist, hard)		50+																
14																									
15							Bottom of Boring @ 14.3'																		
16																									
17																									
18																									
19																									
20																									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-685					
				Page No.		1 of 1					
				Project No.		28062					
Project Name: Micron Campus, Clay, New York				Date Started		05/09/24					
Client: Ramboll				Date Finished		05/09/24					
Location: See Exploration Location Plan				Surface Elev.		397.0'					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS					
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: K. Crandall		Casing Hammer:		05/09/24		While Drilling		7.4		10.0	
Inspector: C. O'Hara		Other:		05/09/24		Before Casing Removed		5.8		17.7	
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel		05/09/24		After Casing Removed		4.8		out	
Type: ATV		Hammer Wt: 140 lbs.		05/09/24		After Casing Removed		caved @ 14.8		out	
Rod Size: AWJ		Hammer Fall: 30 in.									
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
0	1A	0.0	0.6	SS/16	WH-1-2-2		Topsoil and Organic Material (moist)				3
1	1B	0.6	2.0				Brown SILT, little CLAY, trace cmf SAND, trace ORGANIC MATERIAL (moist, soft)				
2	2	2.0	4.0	SS/15	5-6-6-6		Brown SILT, trace CLAY (moist, stiff)				12
3											
4	3	4.0	6.0	SS/16	6-9-11-12		Similar as above (wet, very stiff)				20
5											
6	4	6.0	8.0	SS/18	7-8-8-8		Similar as above (moist, very stiff)				16
7											
8	5	8.0	10.0	SS/20	6-8-8-7		Brown/Grey/Orange, Similar as above (moist, very stiff)				16
9											
10											
11											
12											
13	6	13.0	15.0	SS/11	7-5-11-6		Grey, Similar as above (moist, very stiff)				16
14							Augers like Cobble beginning @ 14.0'				
15											
16											
17							Augers very hard beginning @ 17.2'				
18	7	17.7	17.8	SS/1	50@1"		Black SHALE Fragments Auger Refusal @ 17.7'				
19							Bottom of Boring @ 17.8'				
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-686																					
						Page No.		1 of 1																					
						Project No.		28062																					
Project Name: Micron Campus, Clay, New York						Date Started		05/09/24																					
Client: Ramboll						Date Finished		05/09/24																					
Location: See Exploration Location Plan						Surface Elev.		397.5'																					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																							
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>05/09/24</td> <td>While Drilling</td> <td>5.8</td> <td>10.0</td> </tr> <tr> <td>05/09/24</td> <td>Before Casing Removed</td> <td>6.5</td> <td>17.0</td> </tr> <tr> <td>05/09/24</td> <td>After Casing Removed</td> <td>5.0</td> <td>out</td> </tr> <tr> <td>05/09/24</td> <td>After Casing Removed</td> <td>caved @ 15.0</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	05/09/24	While Drilling	5.8	10.0	05/09/24	Before Casing Removed	6.5	17.0	05/09/24	After Casing Removed	5.0	out	05/09/24	After Casing Removed	caved @ 15.0	out				
Date	Time	Depth (Ft.)	Casing At (Ft.)																										
05/09/24	While Drilling	5.8	10.0																										
05/09/24	Before Casing Removed	6.5	17.0																										
05/09/24	After Casing Removed	5.0	out																										
05/09/24	After Casing Removed	caved @ 15.0	out																										
Driller: K. Crandall		Casing Hammer:																											
Inspector: C. O'Hara		Other:																											
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel																											
Type: ATV		Hammer Wt: 140 lbs.																											
Rod Size: AWJ		Hammer Fall: 30 in.																											
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %																				
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%																						
0	1A	0.0	0.8	SS/18	WR-WH-1-4		Topsoil and Organic Material (moist)		1																				
1	1B	0.8	2.0				Brown SILT, trace CLAY, trace fine SAND, trace ORGANIC MATERIAL (moist, soft)																						
2	2	2.0	4.0	SS/16	5-6-6-7		Brown SILT, trace CLAY (moist, stiff)		12																				
3																													
4	3	4.0	6.0	SS/15	4-7-7-8		Brown SILT, trace CLAY (wet, stiff)		14																				
5																													
6	4	6.0	8.0	SS/11	4-8-11-5		Similar as above (wet, very stiff)		19																				
7																													
8	5	8.0	10.0	SS/20	5-6-8-13		Similar as above (moist, stiff)		14																				
9																													
10																													
11																													
12																													
13	6	13.0	15.0	SS/13	5-6-8-13		Grey, Similar as above (moist, stiff)		14																				
14																													
15																													
16																													
17							Augers like Cobble beginning @ 16.7'. Augers harder beginning @ 16.9'.																						
18	7	16.9	17.0	SS/1	50@1"		Black SHALE Fragments Auger Refusal @ 17.0'		50+																				
19							Bottom of Boring @ 17.0'																						
20																													

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-687			
				Page No.		1 of 1			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/09/24			
Client: Ramboll				Date Finished		05/09/24			
Location: See Exploration Location Plan				Surface Elev.		398.1'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: H. Lyon		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: K. Crandall		Casing Hammer:							
Inspector: C. O'Hara		Other:							
Drill Rig: CME 45		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/09/24	While Drilling	None Noted	13.0		
				05/09/24	Before Casing Removed	11.8	17.9		
				05/09/24	After Casing Removed	4.2	out		
				05/09/24	After Casing Removed	caved @ 6.7	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.7	SS/14	1-1-2-5		Topsoil and Organic Material (moist)		3
1	1B	0.7	2.0				Brown SILT, trace CLAY, trace fine SAND (moist, soft)		
2	2	2.0	4.0	SS/18	6-5-7-9		Similar as above (moist, stiff)		12
3									
4	3	4.0	6.0	SS/15	4-6-6-8		Brown SILT, trace CLAY (moist, stiff)		12
5									
6	4	6.0	8.0	SS/20	7-9-10-11		Similar as above (moist, very stiff)		19
7									
8	5	8.0	10.0	SS/17	8-8-7-8		Similar as above (moist, very stiff)		15
9									
10									
11									
12									
13	6	13.0	15.0	SS/12	5-10-7-9		Brown/Grey, Similar as above (moist, very stiff)		17
14									
15							Augers harder beginning @ 15.5'		
16									
17							Augers like Cobble beginning @ 17.1'		
18	7	17.9	17.9	SS/0	50@0"		Black SHALE in tip of spoon Auger Refusal @ 17.9'		50+
19							Bottom of Boring @ 17.9'		
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-688			
				Page No.		1 of 2			
				Project No.		28062			
Project Name: Micron Campus, Clay, New York				Date Started		05/07/24			
Client: Ramboll				Date Finished		05/07/24			
Location: See Exploration Location Plan				Surface Elev.		394.8'			
METHODS OF INVESTIGATION					GROUNDWATER OBSERVATIONS				
Driller: Beau Fletcher		Casing: 3 ¼" ID H.S.A.		Date	Time	Depth (Ft.)	Casing At (Ft.)		
Driller: Ryan Casatelli		Casing Hammer:							
Inspector:		Other: NQ-Core							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel							
Type: ATV		Hammer Wt: 140 lbs.							
Rod Size: AWJ		Hammer Fall: 30 in.		05/07/24	While Drilling	5.5	13.5		
				05/07/24	Before Casing Removed	None Noted	16.0		
				05/07/24	After Casing Removed	3.0 *	out		
				05/07/24	After Casing Removed	caved @ 8.0	out		
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	1.0	SS/19	WH-1-2-5		Topsoil and Organic Material (moist)		3
1	1B	1.0	2.0				Brown SILT, trace CLAY (moist, soft)		
2	2	2.0	4.0	SS/20	5-6-8-10		Brown/Grey SILT, trace CLAY (moist, stiff)		14
3									
4	3	4.0	6.0	SS/17	6-7-7-8		Brown, Similar as above (wet, stiff)		14
5									
6	4	6.0	8.0	SS/19	7-8-9-13		Similar as above (moist, very stiff)		17
7									
8	5	8.0	10.0	SS/12	8-6-4-4		Grey SILT, little mf GRAVEL, trace cmf SAND (wet, stiff)		10
9									
10									
11									
12									
13	6	13.5	15.0	SS/6	11-50-9		Grey/Black cmf GRAVEL, little SILT, little cmf SAND (wet, very compact)		59
14									
15									
16	R-1	16.0	21.0	C/58	NQ-Core		Auger Refusal @ 16.0'. Set up to core.		60%
17							Grey DOLOSTONE with interbedded SHALE layers (1/8" - 1.0" thick), slightly weathered, thinly laminated to medium bedded, medium hard to hard.		
18							Broken and fractured zone @ 17.6' - 17.8'.		
19							Weathered zone (1/4" - 3/4" thick) @ 18.6' and 19.8'.		
20							Recovery: 58"/60" = 97% RQD: 36"/60" = 60%		
							21 Pieces, 2" Chips and Fragments		
							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: *Water added to boring for coring.

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No. B-688		
								Page No. 2 of 2			
								Project No. 28062			
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %	
20	R-2	21.0	26.0	C/56	NQ-Core		Continued from Page 1 1:00 min/ft, no water loss Coring conducted in 4th gear, 1700 rpm, 700 psi down pressure. Grey DOLOSTONE with interbedded SHALE layers (<1/8" - 6.0' thick), slightly weathered, thinly laminated to medium bedded, medium hard to hard. Weathered zone (<1/8" thick) @ 20.2'. Recovery: 56"/60" = 93% RQD: 47"/60" = 78% 22 Pieces, 0" Chips and Fragments 1:00 min/ft, no water loss Coring conducted in 4th gear, 1700 rpm, 700 psi down pressure. Bottom of Boring @ 26.0'			78%	
21											
22											
23											
24											
25											
26											
27											
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43											
44											
45											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



GENERAL INFORMATION & KEY TO TEST BORING LOGS

The **Subsurface Exploration – Test Boring Logs** produced by **CME Associates, Inc.** (CME) present observations and mechanical data collected by the CME Drill Crew while at the site, supplemented, at times, by classification of the materials removed from the borings determined through visual identification by technicians in the laboratory. It is cautioned that the materials removed from the borings represent only a fraction of the total volume of the deposits at the site and may not necessarily be representative of the subsurface conditions between adjacent borings or between the sampled intervals. The data presented on the Exploration Logs together with the recovered samples will provide a basis for evaluating the character of the subsurface conditions relative to the proposed construction. The evaluation must consider all the recorded details and their significance relative to each other. Often, analyses of standard boring data indicate the need for additional testing and sampling procedures to more accurately evaluate the subsurface conditions. Any evaluations of the contents of CME's report and the recovered samples must be performed by Licensed Professionals having experience in Soil Mechanics, Geological Sciences and Geotechnical Engineering. The information presented in this Key defines some of the methods, procedures and terms used on the CME Exploration Logs to describe the conditions encountered. Refer to the Log on page 4 for key number.

Key No.

Description

1. The figures in the **DEPTH SCALE** column define the vertical scale of the Boring Log.
2. The **SAMPLE NO.** is used for identification on the sample containers and in the Laboratory Test Report or Summary.
3. The **SAMPLE DEPTH** column gives the depth range from which a sample was recovered.
4. The **TYPE / SAMPLE RECOVERY** column is used to signify the various types of samples. "SS is Split Spoon, "U" is Undisturbed Tube, and "C" is Rock Core. For soil and rock samples, the recovered length of the sample is recorded in inches.
5. **BLOWS ON SAMPLER** – This column shows the results of the "Standard Penetration Test (SPT) ASTM D1586", recording the number of blows required to drive a 2-inch outside diameter (O.D.) split spoon sampler into the ground beneath the casing. The number of blows required for each six inches of penetration is recorded. The total number of blows required for the 6-inch to 18-inch interval is summarized in the **SPT "N"** column and represents the "Standard Penetration Number". The outside diameter of the sampler, the hammer weight and the length of drop are noted in the **Methods of Investigation** portion of the log. A "WH" or "WR" in this column indicates that the sample spoon advanced a 6-inch interval under the Weight of Hammer + Rod or Weight of Rod, respectively. If a rock core sample is taken, the core bit size designation is given here.
6. The **DEPTH OF CHANGE** column designates the depth (in feet) that the driller noted a compactness or stratum change. In soft materials or soil strata exhibiting a consistent relative density, it is difficult for the driller to determine the exact change from one stratum to the next. In addition, a grading or gradual change may exist. In such cases the depth noted is approximate or estimated only and may be represented by a dashed line. When continuous split spoon sampling is not employed, or an interval of several feet exists between samplings, the Depth of Change may not be indicated at all.
7. **VISUAL CLASSIFICATION OF MATERIAL** – Soil materials sampled and recovered are described by the Driller or Geotechnical Representative on the original field log. Notes of the Drillers observations are also placed in this column. Recovered samples may also be visually classified by a Geologist, Engineer, or Soil Technician. Visual soil classifications are made using a modified Burmister System as practiced by CME and as generally described in this Key and abbreviated on the Test Boring Log. This modified Burmister System is a type of visual-manual textural classification estimated by the Driller, Geologist, Engineer, or Technician on the basis of weight-fraction of the recovered material and estimated plasticity, among other characteristics. See Table 1 "**Classification of Materials**". The description of the relative compactness or consistency is based upon the standard penetration number as defined in Table 2. The description of the recovered sample moisture condition is described as dry, moist, wet, or saturated. Water used to advance the boring may affect the moisture content of the recovered sample. Special terms may be used to describe recovered materials in greater detail, such terms are listed in ASTM D653. When sampling gravelly soils with a standard two-inch O.D. Split Spoon, the true percentage of gravel is often not recovered due to the relatively small sampler diameter. The presence of boulders, cobbles, and large gravel is sometimes, but not necessarily, detected by observation of the casing advancement and sampler blows and/or through the "action" of the drill rig, sampler and/or casing as reported by the Driller.

The description of **Rock** is based upon the recovered rock core. Terms frequently used in the description are included in Tables 3, 4 and 5. The length of core run is defined as length of penetration between retrievals of the core barrel from the bore hole, expressed in inches. The core recovery expresses the length of core recovered from the core barrel per core run, in percent. The size core barrel used is noted in Column 5. An "N" size core, being larger in diameter than "A" size core, often produces better recovery, and is frequently utilized where accurate information regarding the geologic conditions and engineering properties is needed. An estimate of in-situ rock quality is provided by a modified core recovery ratio known as the "**Rock Quality Designation**" (**RQD**). This ratio is determined by considering only pieces of core that are at least 4 inches long and are hard and sound. Breaks obviously caused by drilling are ignored. The percentage ratio between the total length of such core recovered and the length of core drilled on a given run is the RQD. Table 4 indicates in-situ rock quality as related to the **RQD**.



8. The SPT "N" or RQD is given in this column as applicable to the specific sample taken. In Very Compact coarse-grained soils and in Hard fine-grained soils the N-value may be indicated as 50+ or 100+. This typically means that the blow count was achieved prior to driving the sampler the entire 6-inch interval or the sampler refused further penetration. For an "N" size rock core, the RQD is reported here, expressed in percent (%).
9. **GROUNDWATER OBSERVATIONS** and timing noted by the Drill Crew are shown in this section. It is important to realize that the reliability of the water level observations depend upon the soil type (e.g. water does not readily stabilize in a hole through fine grained soils), and that drill water used to advance the boring may have influenced the observations. Groundwater levels typically fluctuate seasonally so those noted on the log are only representative of that exhibited during the period of time noted on the log. One or more perched or trapped water levels may exist in the ground seasonally. All the available resources and data should be evaluated. If definite conclusions cannot be made, it is often prudent to examine the conditions more thoroughly through test pit excavations or through groundwater observation well installations.
10. **METHODS of INVESTIGATION** provides pertinent information regarding the identity of the Drill Crew members, inspector (if any), drill rig make and model, drill rig mount vehicle, casing and type of advancement, soil and rock sampling tools and appurtenances used in the installation of the Test Boring.

TABLE 1 - CLASSIFICATION OF MATERIALS	
GROUP	COARSE GRAINED SOILS TEXTURAL SIZES
BOULDERS	larger than 12" diameter
COBBLES	12" diameter to 3" sieve
GRAVEL	3" - coarse - 1" - medium - 1/2" - fine - #4 sieve
SAND	#4 - coarse - #10 - medium - #40 - fine - #200 sieve
GROUP	FINE GRAINED SOILS SIZE (PLASTICITY*)
SILT	#200 sieve (0.074mm) to 0.005mm size (see below *)
CLAY	0.005mm size to 0.001 mm size (see below *)
GROUP	ORGANIC SOILS, PEAT, MUCK, MARL
ORGANIC	Based on smell, visual-manual and laboratory testing

ABBREVIATIONS	TERM	ESTIMATED PERCENT OF TOTAL SAMPLE BY WEIGHT
f - fine	and	35 to 50%
m - medium	some	20 to 35%
c - coarse	little	10 to 20%
	trace	0 to 10%

*PLASTICITY DESCRIPTIONS and INDICATOR FIELD TESTS			
TERM	PLASTICITY INDEX	DRY STRENGTH TEST	
		INDICATION	FIELD TEST RESULT
non-plastic	0 - 3	Very low	falls apart easily
slightly plastic	4 - 15	Slight	easily crushed by fingers
plastic	15 - 30	Medium	difficult to crush
highly plastic	31 or more	High	impossible to crush with fingers
Other Field Tests include: Dilatancy, Thread and Shine Testing			

**TABLE 2 - DESCRIPTION OF SOIL COMPACTNESS OR CONSISTENCY based on SPT "N"**

Primary Soil Type	Descriptive Term of Compactness	Range of Standard Penetration Resistance (N)
COARSE GRAINED SOILS	Very Loose	less than 4 blows per foot
(More than half of Material is larger than No. 200 sieve size)	Loose	4 to 10
	Medium Compact	10 to 30
	Compact	30 to 50
	Very Compact	Greater than 50
FINE GRAINED SOILS	Descriptive Term of Consistency	Range of Standard Penetration Resistance (N)
(More than half of material is smaller than No. 200 sieve size)	Very Soft	less than 2 blows per foot
	Soft	2 to 4
	Medium Stiff	4 to 8
	Stiff	8 to 15
	Very Stiff	15 to 30
	Hard	Greater than 30
*The number of blows of 140-pound weight falling 30 inches to drive a 2-inch O.D., 1-3/8 inch I.D. sampler 12 inches is defined as the Standard Penetration Resistance, designated "N".		

TABLE 3 - ROCK CLASSIFICATION TERMS

Rock Classification Terms		Field Test or Meaning of Term
Hardness	Soft	Scratched by fingernail. Crumbles under firm blows with a geologic pick.
	Medium Soft	Shallow indentations (1 to 3 mm) can be made by firm blows of a geologic pick. Can be peeled with a pocketknife with difficulty.
	Medium Hard	Scratched distinctly by penknife or steel nail. Can't be peeled or scraped with knife.
	Hard	Scratched with difficulty by penknife or steel nail. Requires more than one blow with a geologic hammer to break it
	Very Hard	Cannot be scratched by penknife or steel nail. Breaks only by repeated heavy blows with a geologic hammer.
Bedding (Divisional planes and/or surfaces separating it from layers above and below)	Thinly Laminated Laminated Thinly Bedded Medium Bedded Thickly Bedded Massive	less than 1/8 th inch 1/8 th to 1 inch 1 inch to 4 inches 4 inches to 12 inches 12 inches to 48 inches greater than 48 inches

**TABLE 4
Relation of Rock Quality Designation (RQD) and in-situ Rock Quality**

RQD %	Rock Quality Term Used
90 to 100	Excellent
75 to 90	Good
50 to 75	Fair
25 to 50	Poor
0 to 25	Very Poor

Classification	Diagnostic Features
Fresh	No visible sign of decomposition or discoloration. Rings under hammer impact.
Slightly Weathered	Slight discoloration inwards from open fractures, otherwise similar to Fresh.
Moderately Weathered	Discoloration throughout. Strength somewhat less than fresh rock but cores cannot be broken by hand or scraped with knife. Texture observed.
Highly Weathered	Most minerals somewhat decomposed. Specimens can be broken by hand with effort or shaved with knife. Core stones present in rock mass. Texture becoming indistinct but fabric preserved.
Completely Weathered	Minerals decomposed to soil, but fabric and structure preserved (e.g. Saprolite). Specimens easily crumbled or penetrated.
Residual Soil	Advanced state of decomposition resulting in plastic soils. Rock fabric and structure completely destroyed. Large volume change.

 CME Associates, Inc.	6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No.		B-2								
					Page No.		1 of 1								
					Report No.										
Project Name:								Date Started							
Client:								Date Finished							
Location:								Surface Elev.							
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS									
Driller:		10		Casing:		10		Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller:				Casing Hammer:						While Drilling		9		9	
Inspector:				Other:						Before Casing Removed					
Drill Rig:				Soil Sampler:						After Casing Removed					
Type:				Hammer Wt:						After Casing Removed					
Rod Size:				Hammer Fall:						After Casing Removed					
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL									
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%			SPT "N" or RQD %			
1	2	3	3	4	5	6	7					8			

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

TRANSMITTAL

March 14, 2024

Ramboll
333 West Washington Street
Syracuse, New York 13202
315.420.8439

Attn: Andy Philips, Senior Project Manager

Re: Micron Healthcare and Childcare Facilities
Clay, New York

CEG Project No.: 173

Enclosed you will find:

Number of Copies	Report Number	Description
1	173E-01-0324	Preliminary Site Characterization and Foundation Considerations Report

This report was emailed to the following recipients on 03/14/24:

Name	Company	Email Address
Andy Philips	Ramboll	andy.philips@ramboll.com

Respectfully Submitted,
CME ENGINEERING GROUP, D.P.C.



Anas N. Anasthas, P.E.
President

AA:jcs

March 14, 2024

Ramboll
333 West Washington Street
Syracuse, New York 13202
Email: andy.philips@ramboll.com

Attn: Andy Philips, Senior Project Manager

Re: Preliminary Site Characterization and Foundation Considerations Report
Micron Healthcare and Childcare Facilities
Clay, New York
CEG Report No.: 173E-01-0324
Page 1 of 4

Gentlepeople:

1.0 INTRODUCTION

CME Engineering Group, D.P.C (CEG) is pleased to present this report to Ramboll. CEG is a subconsultant to CME Associates, Inc. (CME). This report is provided pursuant to CME Proposal/Agreement No.: 05.7285, dated 08/18/2023 (Agreement), which was executed by Ramboll via a Purchase Order (Ramboll PO # 1950007133, dated 10/27/2023).

CME completed a limited subsurface exploration in September 2023, for the original site layout depicted in the attached *October 2023 Preliminary Site Plan*, dated 10/04/2023. The attached *Geotechnical Data Report* (labeled CME Report Number: 28111B-01-1023, dated 10/23/2023) presents the exploration methodologies and exploration logs for the September 2023 explorations.

Ramboll recently provided the attached *December 2023 Preliminary Site and Grading Plans*, dated 12/08/2023. These plans indicate that the proposed buildings have been moved to the north and outside the September 2023 exploration coverage areas. Therefore, an additional subsurface exploration program is warranted such that CEG can provide geotechnical engineering recommendations for the proposed buildings. Please refer to the attached *Proposed Exploration Location Plan*, labeled ELP-2, dated 03/13/2024, for approximate location of the September 2023 explorations and the proposed additional explorations.

According to Ramboll, the additional explorations depicted in ELP-2 will be authorized before commencement of foundation design for the proposed buildings. In the meantime, Ramboll requested preliminary geotechnical information, including foundation considerations for the proposed buildings. It is CEG's understanding that all proposed buildings will be single story

without basement and proposed finish floor is planned at about 1 to 5 feet above existing grade.

2.0 SITE CHARACTERIZATION AND ENGINEERING SIGNIFICANCE

The September 2023 explorations identified a subsurface profile consisting of Silt and Clay, underlain by Sand and Gravel, underlain by probable Bedrock.

Below surfacing (about 0.6 to 0.9 feet of Topsoil and Organic Matter), a Silt and Clay stratum was penetrated to about 7 to 19 feet below grade, where a Sand and Gravel stratum was encountered. The Sand and Gravel stratum was penetrated to auger and/or sampler refusal depth, where probable bedrock was encountered at about 21 to 25 feet below grade.

The Silt and Clay stratum contains layers of very soft to soft Silty Clay or Clayey Silt, which will compress and/or consolidate under new loads (building foundation and slab loads and the weight of new structural fill to be placed to raise grades).

The thickness and consistency of the Clayey Silt and Silty Clay layers within the proposed building footprints (planned for the current site layout) are not known and shall be investigated via undisturbed Shelby tube sampling, laboratory index soil testing, and one-dimensional consolidation testing, during the pending exploration program.

The Silt and Clay stratum within the proposed building footprints may be thicker and/or softer than what was sampled in the September 2023 explorations. Therefore, raising site grades, and then utilizing conventional shallow foundations and slabs-on-grade for the proposed buildings may result in excessive/intolerable post-construction foundation, slab, and grade settlements.

3.0 PRELIMINARY FOUNDATION CONSIDERATIONS

Ground improvement via a surcharging and settlement monitoring program may be required to utilize conventional shallow footing foundations and slabs-on-grade for the proposed buildings. Alternatively, a deep foundation system with a structurally supported floor slab may be considered in lieu of the ground improvement and shallow foundation option.

- 1. Shallow Foundation System with Surcharging and Settlement Monitoring Program:** The surcharging and settlement monitoring program will include constructing the building pad using permanent structural fill up to plan slab subgrade elevation and then adding a temporary surcharge fill above to a design height (or calculated load). The temporary surcharge will remain in-place over a design surcharge period, to be confirmed via a settlement monitoring program.

Installation of Prefabricated Vertical Drains (PVD) may be required to reduce the surcharge period. The design surcharge period will depend on several factors such as,

but not limited to, height and density of the permanent structural fill, building loads, thickness and consolidation parameters of the Silt and Clay soils, and temporary surcharge load.

It is CEG's professional opinion that a surcharge program may be designed with appropriate temporary surcharge load and PVD spacing to limit the surcharge period to about 3 months, or less.

After satisfactory ground improvement via the above surcharging and settlement monitoring program, the proposed building may be supported utilizing conventional shallow footing foundations and slabs-on-grade. A presumptive soil bearing pressure of about 1,500 psf to 2,500 psf is likely feasible with this ground improvement option.

- 2. Deep Foundation System with Structurally Supported Floor Slab:** Deep foundations consisting of driven timber piles or steel pipe piles are appropriate for this site.

Preservative treated timber piles with minimum tip diameter of 8-inches and pile shoe (steel driving point), driven to refusal on bedrock may be considered for about 20 to 30 tons axial service capacity per pile.

Closed-end, concrete-filled steel pipe pile (8.625" OD x 0.25" Wall Thickness, Minimum Yield Strength 50 ksi) driven to refusal on bedrock may be considered for about 40 to 50 tons axial service capacity per pile.

Specific site preparation and foundation design recommendations will follow under separate cover, after completion of the pending field exploration and laboratory testing program.

4.0 CLOSING

CEG has endeavored to conduct the services identified herein in a manner consistent with that level of care and skill ordinarily exercised by members of the geotechnical engineering profession currently practicing in the same locality and under similar conditions as this project.

Please do not hesitate to contact the undersigned engineers if you have any questions regarding this report, its conclusions, its recommendations, or its application to planning, design, and/or actual field conditions revealed in the future. CEG looks forward to working with the Design & Construction Teams and future interaction necessary to the success of this project.

Respectfully Submitted,
CME ENGINEERING GROUP, D.P.C.



Anas N. Anasthas, P.E.
President

Reviewed By,
CME ENGINEERING GROUP, D.P.C.



Christopher R. Paolini, P.E., MPS, EXWSM
Vice President

Attachments:

- October 2023 Preliminary Site Plan (1 of 1)
- December 2023 Preliminary Site and Grading Plans (2 of 2)
- Proposed Exploration Location Plan (1 of 1)
- Geotechnical Data Report (48 of 48)

SAVED: 10/03/23 1:46 PM
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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER, TO ALTER THIS DOCUMENT. DRAWING IS NOT SCALEABLE IF NO SCALE BAR IS PRESENT.

OCTOBER 2023 PRELIMINARY SITE PLAN

**PRELIMINARY
NOT FOR
CONSTRUCTION**

DATE: ---

CLIENT
MICRON

NO.	DATE	REVISION
1	10/03/23	1.0
2	10/03/23	2.0
3	10/03/23	3.0
4	10/03/23	4.0
5	10/03/23	5.0
6	10/03/23	6.0
7	10/03/23	7.0
8	10/03/23	8.0
9	10/03/23	9.0
10	10/03/23	10.0

DESIGNER / PROFESSIONAL ENGINEER RESPONSIBLE	PROJECT NO.
10/03/23	173E-01-0324
10/03/23	173E-01-0324
10/03/23	173E-01-0324
10/03/23	173E-01-0324
10/03/23	173E-01-0324
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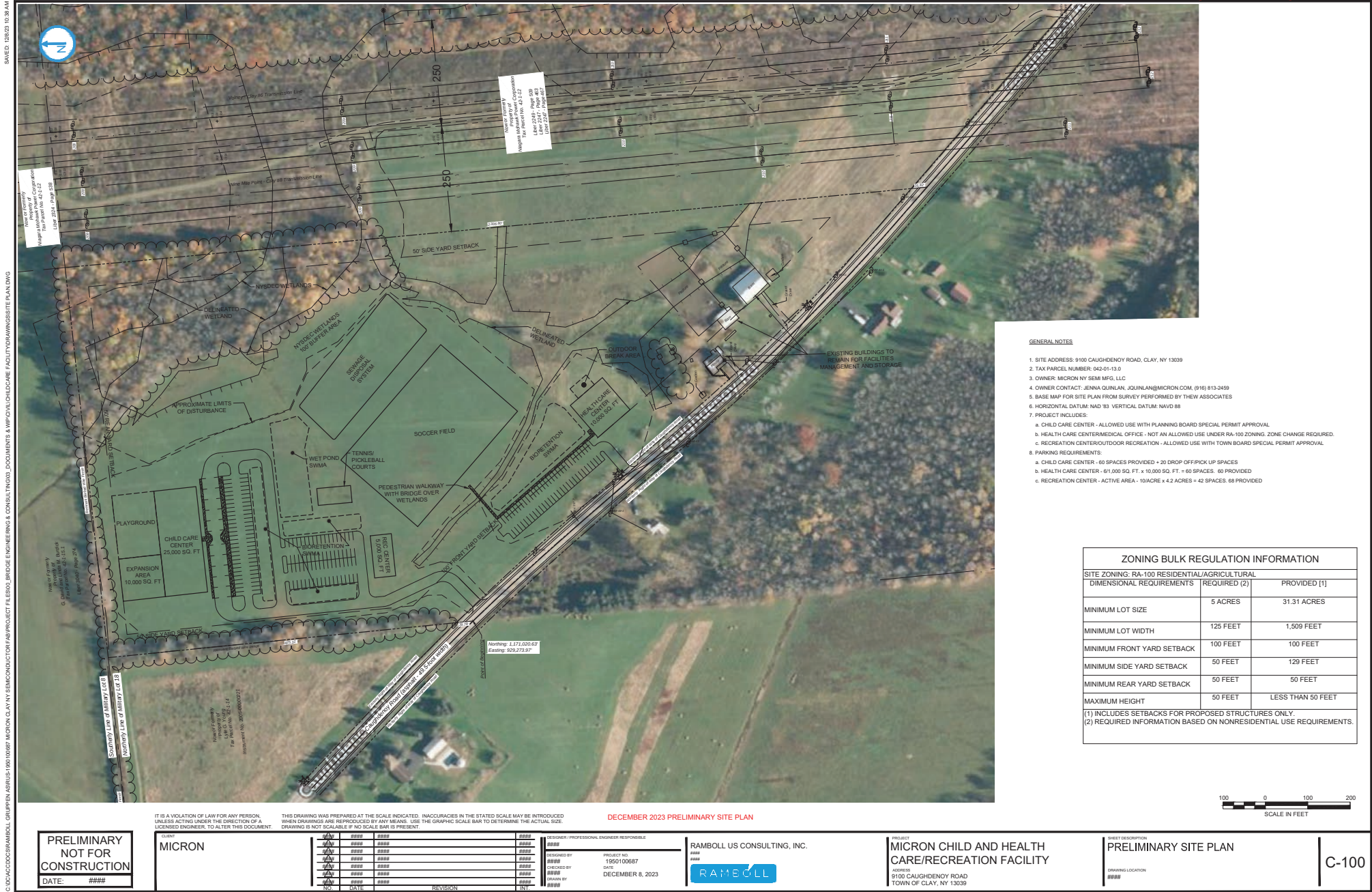
RAMBOLL US CONSULTING, INC.



PROJECT
**MICRON CHILD AND HEALTH
CARE/RECREATION FACILITY**
ADDRESS
5100 CAUGHENY ROAD
TOWN OF CLAY, NY 13039

SHEET DESCRIPTION
PRELIMINARY SITE PLAN
DRAWING LOCATION
173E-01-0324

C-100



GENERAL NOTES

1. SITE ADDRESS: 9100 CAUGHDENY ROAD, CLAY, NY 13039
2. TAX PARCEL NUMBER: 042-01-13-0
3. OWNER: MICRON NY SEM MFG. LLC
4. OWNER CONTACT: JENNA QUINLAN, JQUINLAN@MICRON.COM, (916) 813-2459
5. BASE MAP FOR SITE PLAN FROM SURVEY PERFORMED BY THEW ASSOCIATES
6. HORIZONTAL DATUM: NAD 83 VERTICAL DATUM: NAVD 88
7. PROJECT INCLUDES:
 - a. CHILD CARE CENTER - ALLOWED USE WITH PLANNING BOARD SPECIAL PERMIT APPROVAL
 - b. HEALTH CARE CENTER/MEDICAL OFFICE - NOT AN ALLOWED USE UNDER RA-100 ZONING. ZONE CHANGE REQUIRED.
 - c. RECREATION CENTER/OUTDOOR RECREATION - ALLOWED USE WITH TOWN BOARD SPECIAL PERMIT APPROVAL
8. PARKING REQUIREMENTS:
 - a. CHILD CARE CENTER - 60 SPACES PROVIDED + 20 DROP OFF/PICK UP SPACES
 - b. HEALTH CARE CENTER - 61,000 SQ. FT. x 10,000 SQ. FT. = 60 SPACES. 60 PROVIDED
 - c. RECREATION CENTER - ACTIVE AREA - 10/ACRE x 4.2 ACRES = 42 SPACES. 68 PROVIDED

ZONING BULK REGULATION INFORMATION

SITE ZONING: RA-100 RESIDENTIAL/AGRICULTURAL		
DIMENSIONAL REQUIREMENTS	REQUIRED (2)	PROVIDED (1)
MINIMUM LOT SIZE	5 ACRES	31.31 ACRES
MINIMUM LOT WIDTH	125 FEET	1,509 FEET
MINIMUM FRONT YARD SETBACK	100 FEET	100 FEET
MINIMUM SIDE YARD SETBACK	50 FEET	129 FEET
MINIMUM REAR YARD SETBACK	50 FEET	50 FEET
MAXIMUM HEIGHT	50 FEET	LESS THAN 50 FEET

(1) INCLUDES SETBACKS FOR PROPOSED STRUCTURES ONLY.
(2) REQUIRED INFORMATION BASED ON NONRESIDENTIAL USE REQUIREMENTS.



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CONSTRUCTION

DATE: #####

CLIENT
MICRON

NO.	DATE	REVISION
1	12/08/23	ISSUED FOR PERMITTING
2	12/08/23	REVISED PER COMMENTS
3	12/08/23	REVISED PER COMMENTS
4	12/08/23	REVISED PER COMMENTS
5	12/08/23	REVISED PER COMMENTS
6	12/08/23	REVISED PER COMMENTS
7	12/08/23	REVISED PER COMMENTS
8	12/08/23	REVISED PER COMMENTS
9	12/08/23	REVISED PER COMMENTS
10	12/08/23	REVISED PER COMMENTS

DESIGNER / PROFESSIONAL ENGINEER RESPONSIBLE

DESIGNED BY

CHECKED BY

DATE
DECEMBER 8, 2023
DRAWN BY
#####

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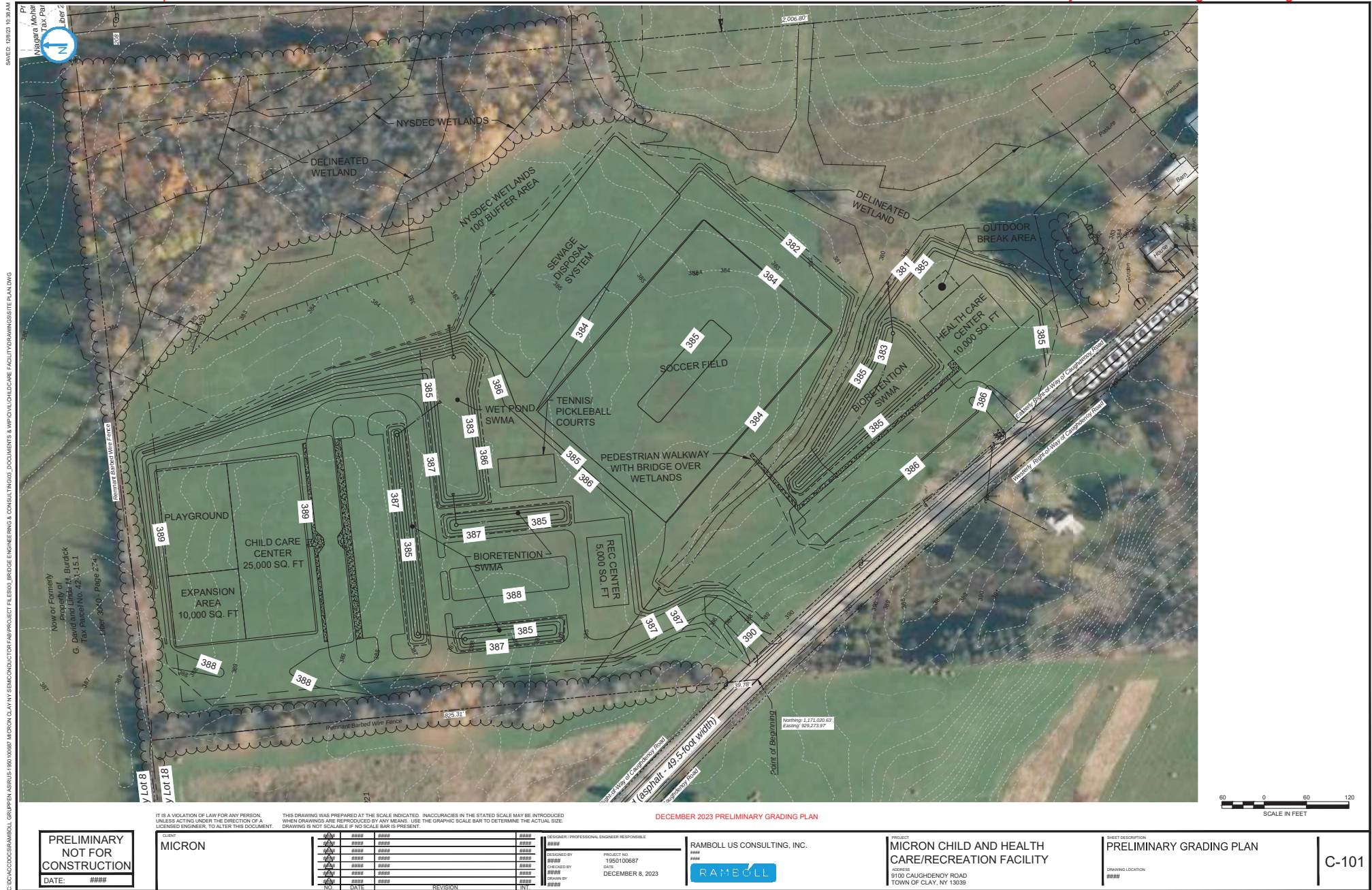


PROJECT
MICRON CHILD AND HEALTH
CARE/RECREATION FACILITY
ADDRESS
9100 CAUGHDENY ROAD
TOWN OF CLAY, NY 13039

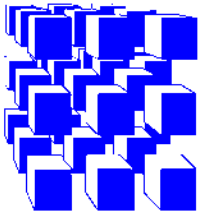
SHEET DESCRIPTION
PRELIMINARY SITE PLAN

DRAWING LOCATION
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C-100







CME
Associates, Inc.

6035 Corporate Drive
East Syracuse, New York 13057
(315) 701-0522
(315) 701-0526 (Fax)

www.cmeassociates.com

October 20, 2023

Ramboll (Client)
333 West Washington Street
Syracuse, New York, 13202
Phone: 315.420.8439

Attn: Mr. Andy Philips, Senior Project Manager
andy.philips@ramboll.com

Re: Geotechnical Data Report
Micron Healthcare and Childcare Facilities
Clay, New York
CME Report No. 28111B-01-1023
Page 1 of 3

1.0 INTRODUCTION

CME Associates, Inc. (CME) was retained by Ramboll (Client) to provide subsurface exploration and geotechnical services for the subject project. CME conducted a limited subsurface exploration at the subject project site in September 2023.

The Scope of Basic Services and this report have been provided pursuant to CME Proposal/Agreement No.: 05.7285, dated 08/18/2023. This report provides a summary of exploration activities conducted at the subject project site.

2.0 EXPLORATION METHODOLOGY

2.1 Exploration Layout and Utility Clearance

The exploration locations were selected by the Client and staked by Thew Associates (Thew). Following the field stakeout, CME contacted UDig NY to clear public utilities at the exploration locations. Private utilities at the exploration locations were cleared by Thew. No utility conflicts were noted at the exploration locations.

The attached *CME Exploration Location Plan* depicts the approximate locations of the explorations. Elevation at grade at the exploration locations, along with Northing and Easting coordinates, was provided by Thew (See Table 1, attached).

2.2 Test Borings

A total of 8 Test Borings were advanced using a Central Mine Equipment Model 55 (track-mounted) rotary exploration drill rig, equipped with 3- $\frac{1}{4}$ " I.D. hollow stem augers. Soil sampling was conducted using a 140-pound hammer dropping through a distance of 30 inches to drive a 2" O.D. split barrel sampler in general conformance with ASTM Standard Practice D1586.

All Borings were backfilled with auger cuttings to nearly match the existing grade.

CME Report No.: 28111B-01-1023**Page 2 of 3**

Soil samples were logged and visually classified in the field by the driller or an on-site Geologist, and a portion of each soil sample was placed and sealed in a glass jar. The soil classifications were later reviewed by a CME Engineer in CME's East Syracuse AASHTO resource¹ Accredited Laboratory. The visual soil and classifications were made using a modified Burmister Classification System, as practiced by CME and as generally described in the attached document entitled, *General Information & Key to the Test Boring Logs*. The *Test Boring Logs* are attached.

2.3 Test Pits

A total of 11 Test Pits were excavated using a Link Belt Model LNK 27 excavator, equipped with a 24-inch-wide general-purpose bucket. The Test Pits were excavated and backfilled by a subcontractor to CME. The backfill consisted of excavated materials placed in 2 to 3 feet thick lifts, with each lift compacted using the excavator bucket making several hits. CME Engineers Chen Liu, Ph.D., EIT and /or Astitwa Sharma, E.I.T. were on-site to observe the Test Pit excavation, take photographs and prepare Test Pit Logs. *Test Pit Logs*, labeled TP-1 through TP-11 and *Test Pit Photographs*, are attached to this Report.

2.4 Infiltration Testing

A total of 2 Infiltration Tests (labeled IT-1 and IT-2) were performed. The tests were performed in general conformance with the requirements of the New York State Stormwater Management Design Manual, Appendix D: Infiltration Testing. The test details and results are given in the attached *Infiltration Test Reports*.

3.0 STANDARD OF CARE

CME endeavored to conduct services identified herein in a manner consistent with that level of care and skill ordinarily exercised by members of the industry currently practicing in the same locality and under similar conditions as this project. No warranty, either expressed or implied, is made or intended by CME's proposal, contract, and written and oral reports, all of which warranties are hereby expressly disclaimed. CME shall not be responsible for the acts or omissions of the Client, its contractors, agents, and consultants. CME may rely upon information supplied by Client, its contractors, agents, and consultants or information available from generally accepted reputable sources, without independent verification, and CME assumes no responsibility for the accuracy thereof.

4.0 CLOSING

CME's services have been provided according to the requirements of the referenced CME Proposal/Agreement. No other representations, expressed or implied, are intended or made with respect to the information provided herein, including but not limited to, its suitability for use by others.

¹ **AASHTO re:source** – American Association of State Highway & Transportation Officials (AASHTO) Materials Reference Laboratory, a Federal Agency having jurisdiction to assess laboratory competency according to the Standards of the United States of America. CME East Syracuse accreditation includes testing of Portland Cement Concrete, Aggregate and Soil Materials. www.AASHTOresource.org.

CME Report No.: 28111B-01-1023
Page 3 of 3



Respectfully Submitted,
CME Associates, Inc.

A handwritten signature in blue ink, appearing to read "Astitwa Sharma".

Astitwa Sharma, E.I.T.
Staff Engineer

Reviewed by:
CME Associates, Inc.

A handwritten signature in blue ink, appearing to read "Anas N. Anasthas".

Anas N. Anasthas, P.E.
Senior Geotechnical Engineer

Attachment Listing:

- Exploration Location Plan (1 of 1)
- Table 1 (1 of 1)
- Infiltration Test Reports (2 of 2)
- Test Boring Logs (15 of 15)
- Test Pit Logs (11 of 11)
- Test Pit Photographs (11 of 11)
- General Information & Key to Test Boring Logs (4 of 4)

- TEST PIT
- TEST BORING
- INFILTRATION TESTS



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LICENSED ENGINEER, TO ALTER THIS DOCUMENT

CLIENT
MICRON

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NO	DATE	REVISION

#####	DESIGNER / PROFESSIONAL ENGINEER RESPONSIBLE	
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#####	DESIGNED BY	PROJECT NO.
#####	#####	1950100687
#####	CHECKED BY	DATE
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RAMBOLL US CONSULTING, INC.



PROJECT
MICRON CHILD AND HEALTH
CARE/RECREATION FACILITY
ADDRESS
9100 CAUGHDENY ROAD
TOWN OF CLAY, NY 13039

SHEET DESCRIPTION
PRELIMINARY SITE PLAN

DRAWING LOCATION
####

C-100

ATTACHMENT TO CME REPORT NO. 28111B-01-1023

TABLE 1 - GPS COORDINATES AND ELEVATIONS

Point IT	Latitude	Longitude	Northing	Easting	Elevation	Boring ID
5018	43.21126	-76.17084	1170343	930175.2	379.0	B-01
5019	43.21096	-76.17106	1170234	930115.8	382.1	B-02
5020	43.21109	-76.17142	1170281	930019.3	384.3	B-03
5016	43.21188	-76.17138	1170568	930029.7	380.1	B-04
5021	43.21145	-76.17185	1170409	929904.8	387.4	B-05
5012	43.21199	-76.17226	1170606	929795	382.3	B-06
5011	43.21225	-76.17213	1170703	929827.7	381.9	B-07
5003	43.21246	-76.17282	1170777	929643.6	383.4	B-08
5008	43.21472	-76.17282	1171602	929640.1	388.2	TP-01
5007	43.21428	-76.17405	1171440	929313.6	387.9	TP-02
5006	43.21341	-76.17331	1171122	929511.7	384.1	TP-03
5005	43.213	-76.17341	1170972	929484.9	384.9	TP-04
5004	43.21276	-76.17278	1170886	929653.7	382.3	TP-05
5009	43.21316	-76.17154	1171033	929984.3	380.9	TP-06
5010	43.21238	-76.17173	1170749	929933.3	380.0	TP-07
5014	43.21207	-76.17119	1170639	930079.4	381.8	TP-08
5017	43.21167	-76.17085	1170492	930171.4	380.8	TP-09
5015	43.21177	-76.17172	1170526	929938.1	381.2	TP-10
5013	43.21209	-76.17255	1170643	929715.2	384.2	TP-11

INFILTRATION TEST REPORT**Test ID: IT-1 (Near Test Pit TP-6)**

Project:	Micron Healthcare and Childcare Facilities Clay, NY	CME Report No.:	28111B-01-1023
		Test Date:	09/28/23
Client:	Ramboll	Test Location:	See Exploration Location Plan
		Technician:	Astitwa Sharma, EIT

Test Preparation and Dimensions

Casing Installed in: ☒ Test Pit ☐ Borehole
 Casing Diameter and Type: 4 inch I.D. HDPE

A Existing Grade Elevation (ft): 380.9 ±
 B Casing Stickup Length Above Grade (ft): 3.30
 C Top of Casing Elevation (ft): (A+B)= 384.2 ±
 D Depth to Bottom of Test Hole, Below Top of Casing (ft): 8.20
 E Bottom of Test Hole Elevation: (C-D)= 376.0 ±

Burmister Classification of Soil at Bottom of Hole: Grey/Reddish Brown mottled SILT, some CLAY, trace fine SAND

Thickness&Type of Scour/Sediment Protection Layer Installed: 5" of Pea Gravel

Date and Time Pre-Soaked:..... 09/27/23 Time: 12:35

Depth to Water Level, Below Top of Casing

Just After Pre-Soak Filling (ft): 5.8

Just Prior to First Test Filling (ft): 6.2 Date: 9/28/2023 Time: 12:50

Test Observations

Run 1			Run 2			Run 3			Run 4		
Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)
	0:00	6.2		0:00			0:00			0:00	
	0:01	6.2		0:01			0:01			0:01	
	0:02	6.2		0:02			0:02			0:02	
	0:03	6.2		0:03			0:03			0:03	
	0:05	6.2		0:05			0:05			0:05	
	0:10	6.2		0:10			0:10			0:10	
	0:15	6.2		0:15			0:15			0:15	
	0:30	6.2		0:30			0:30			0:30	
	0:45	6.2		0:45			0:45			0:45	
	1:00	6.2		1:00			1:00			1:00	

Test Results

Run:	Run 1	Run 2	Run 3	Run 4
Infiltration Rate (feet/hour):	0.0			
Infiltration Rate (inches/hour):				

Final Infiltration Rate (inches/hour): 0.0 ☒ Based on average of all four runs

☒ Based on result of last run

Note(s) 1. Test performed in general conformance with NYS Stormwater Management Design Manual, Appendix D: Infiltration Testing Requirements.

INFILTRATION TEST REPORT**Test ID: IT-2 (Near Test Pit TP-1)**

Project:	Micron Healthcare and Childcare Facilities Clay, NY	CME Report No.:	28111B-01-1023
		Test Date:	09/28/23
Client:	Ramboll	Test Location:	See Exploration Location Plan
		Technician:	Astitwa Sharma, EIT

Test Preparation and Dimensions

Casing Installed in: ☒ Test Pit ☐ Borehole
 Casing Diameter and Type: 4 inch I.D. HDPE

A Existing Grade Elevation (ft): 388.2 ±
 B Casing Stickup Length Above Grade (ft): 3.00
 C Top of Casing Elevation (ft): (A+B)= 391.2 ±
 D Depth to Bottom of Test Hole, Below Top of Casing (ft): 8.30
 E Bottom of Test Hole Elevation: (C-D)= 382.9 ±

Burmister Classification of Soil at Bottom of Hole: Brown mottled SILT, some CLAY, trace fine SAND
 Thickness&Type of Scour/Sediment Protection Layer Installed: 3" of Pea Gravel
 Date and Time Pre-Soaked:..... 09/27/23 Time: 13:10
 Depth to Water Level, Below Top of Casing
 Just After Pre-Soak Filling (ft): 6.3
 Just Prior to First Test Filling (ft): 6.3 Date: 9/28/2023 Time: 13:33

Test Observations

Run 1			Run 2			Run 3			Run 4		
Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)
	0:00	6.3		0:00			0:00			0:00	
	0:01	6.3		0:01			0:01			0:01	
	0:02	6.3		0:02			0:02			0:02	
	0:03	6.3		0:03			0:03			0:03	
	0:05	6.3		0:05			0:05			0:05	
	0:10	6.3		0:10			0:10			0:10	
	0:15	6.3		0:15			0:15			0:15	
	0:30	6.3		0:30			0:30			0:30	
	0:45	6.3		0:45			0:45			0:45	
	1:00	6.3		1:00			1:00			1:00	

Test Results

Run:	Run 1	Run 2	Run 3	Run 4
Infiltration Rate (feet/hour):	0.0			
Infiltration Rate (inches/hour):				

Final Infiltration Rate (inches/hour): 0.0 ☐ Based on average of all four runs
☒ Based on result of last run

Note(s) 1. Test performed in general conformance with NYS Stormwater Management Design Manual, Appendix D: Infiltration Testing Requirements.

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-1																					
						Page No.		1 of 2																					
						Report No.		28111B-01-1023																					
Project Name: Micron Healthcare and Childcare Facilities, Clay, New York						Date Started		09/27/23																					
Client: Ramboll						Date Finished		09/27/23																					
Location: See Exploration Location Plan						Surface Elev.		379.0'																					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																							
Driller: Gary Richards		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>09/27/23</td> <td>While Drilling</td> <td>7.4</td> <td>16.0</td> </tr> <tr> <td>09/27/23</td> <td>Before Casing Removed</td> <td>6.9</td> <td>22.0</td> </tr> <tr> <td>09/27/23</td> <td>After Casing Removed</td> <td>4.2</td> <td>out</td> </tr> <tr> <td>09/27/23</td> <td>After Casing Removed</td> <td>caved @ 14.6</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	09/27/23	While Drilling	7.4	16.0	09/27/23	Before Casing Removed	6.9	22.0	09/27/23	After Casing Removed	4.2	out	09/27/23	After Casing Removed	caved @ 14.6	out				
Date	Time	Depth (Ft.)	Casing At (Ft.)																										
09/27/23	While Drilling	7.4	16.0																										
09/27/23	Before Casing Removed	6.9	22.0																										
09/27/23	After Casing Removed	4.2	out																										
09/27/23	After Casing Removed	caved @ 14.6	out																										
Driller: Dan MacDougall		Casing Hammer:																											
Inspector: Bryan Reles		Other:																											
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel																											
Type: ATV		Hammer Wt: 140 lbs.																											
Rod Size: AWJ		Hammer Fall: 30 in.																											
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %																				
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%																						
0	1A	0.0	0.7	SS/13	WH-2-2-4		Dark Brown SILT, some CLAY, trace ROOTS (moist)		4																				
1	1B	0.7	2.0				Grey/Brown CLAY, some SILT, trace fine SAND (moist, medium stiff)																						
2	2	2.0	4.0	SS/18	4-4-6-6		Grey/Brown mottled CLAY, little SILT (moist, stiff)		10																				
3																													
4	3	4.0	6.0	SS/10	1-3-2-3		Brown/Grey CLAY, little SILT, little cmf GRAVEL, trace cmf SAND (moist, medium stiff)		5																				
5																													
6	4	6.0	8.0	SS/20	3-5-5-6		Brown/Grey SILT, some CLAY (wet, stiff)		10																				
7																													
8	5	8.0	10.0	SS/21	1-2-2-3		Brown/Grey CLAY and SILT, trace fine SAND (wet, medium stiff)		4																				
9																													
10																													
11																													
12																													
13																													
14	6	14.0	16.0	SS/22	WH-WH-WH-1		Grey/Brown CLAY, some SILT (wet, very soft)		0																				
15																													
16	7A	16.0	17.4	SS/19	WH-WH-2-8		Grey/Brown CLAY and SILT (wet, soft)		2																				
17	7B	17.4	18.0				Grey cmf SAND, some fine GRAVEL, little SILT (wet) <i>Augered gravelly beginning @ 17.6'</i>																						
18																													
19	8	18.5	20.5	SS/6	4-22-14-8		Grey weathered ROCK FRAGMENTS, little SILT (moist)		36																				
20							Continued on Page 2																						

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



6035 Corporate Drive
East Syracuse, NY 13057
Phone: 315-701-0522

SUBSURFACE EXPLORATION TEST BORING LOG

Boring No.**B-1****Page No.**

2 of 2

Report No.

28111B-01-1023

LOG OF BORING SAMPLES**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20	9	22.0	22.3	SS/4	100@4"		Continued from Page 1		100+
21							<i>Augers harder beginning @ 21.7'. Auger refusal @ 22.0'</i> <i>Similar as above (moist) - Spoon refusal @ 22.3'</i>		
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-2					
						Page No.		1 of 2					
						Report No.		28111B-01-1023					
Project Name:		Micron Healthcare and Childcare Facilities, Clay, New York						Date Started		09/26/23			
Client:		Ramboll						Date Finished		09/26/23			
Location:		See Exploration Location Plan						Surface Elev.		382.1'			
METHODS OF INVESTIGATION							GROUNDWATER OBSERVATIONS						
Driller: Gary Richards		Casing: 3 ¼" ID H.S.A.				Date		Time		Depth (Ft.)		Casing At (Ft.)	
Driller: Dan MacDougall		Casing Hammer:				09/26/23		While Drilling		10.2		14.0	
Inspector: Bryan Reles		Other:				09/26/23		Before Casing Removed		12.3		23.0	
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel				09/26/23		After Casing Removed		6.1		out	
Type: ATV		Hammer Wt: 140 lbs.				09/26/23		After Casing Removed		caved @ 13.8		out	
Rod Size: AWJ		Hammer Fall: 30 in.											
LOG OF BORING SAMPLES							VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %		
0	1A	0.0	0.6	SS/17	1-3-6-8		Brown SILT, little CLAY, trace ROOTS (moist)				9		
1	1B	0.6	2.0				Grey/Brown mottled SILT, trace CLAY (moist, stiff)						
2	2	2.0	4.0	SS/22	6-5-4-4		Grey/Brown mottled SILT, little CLAY, trace fine SAND (moist, stiff)				9		
3													
4	3	4.0	6.0	SS/14	3-2-2-2		Brown/Grey SILT, some CLAY, trace fine SAND (moist, medium stiff)				4		
5													
6	4	6.0	8.0	SS/18	2-2-1-2		Brown/Grey mottled SILT, little CLAY (wet, soft)				3		
7													
8	5	8.0	10.0	SS/18	1-2-2-2		Brown CLAY, some SILT, trace fine SAND (wet, medium stiff)				4		
9													
10													
11													
12													
13							Augered gravelly beginning @ 13.0'						
14	6	14.0	16.0	SS/8	16-11-9-7		Brown cmf SAND and mf GRAVEL, trace SILT (wet, medium compact)				20		
15													
16													
17													
18													
19	7	19.0	20.9	SS/15	28-61-60-100@5"		Grey mf GRAVEL and cmf SAND, some SILT (moist, very compact)				121		
20							Continued on Page 2						

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



6035 Corporate Drive
East Syracuse, NY 13057
Phone: 315-701-0522

SUBSURFACE EXPLORATION TEST BORING LOG

Boring No.	B-2
Page No.	2 of 2
Report No.	28111B-01-1023

LOG OF BORING SAMPLES

VISUAL CLASSIFICATION OF MATERIAL

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20	8	23.0	25.0	SS/16	34-56-37-32		Continued from Page 1 <i>Spoon refusal @ 20.9'</i>		93
21									
22									
23							Grey weathered ROCK FRAGMENTS, little SILT (wet)		
24									
25							Bottom of Boring @ 25.0'		
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-3																					
						Page No.		1 of 2																					
						Report No.		28111B-01-1023																					
Project Name:		Micron Healthcare and Childcare Facilities, Clay, New York				Date Started		09/27/23																					
Client:		Ramboll				Date Finished		09/27/23																					
Location:		See Exploration Location Plan				Surface Elev.		384.3'																					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																							
Driller: Gary Richards		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>09/27/23</td> <td>While Drilling</td> <td>12.6</td> <td>19.0</td> </tr> <tr> <td>09/27/23</td> <td>Before Casing Removed</td> <td>14.0</td> <td>24.0</td> </tr> <tr> <td>09/27/23</td> <td>After Casing Removed</td> <td>7.2</td> <td>out</td> </tr> <tr> <td>09/27/23</td> <td>After Casing Removed</td> <td>caved @ 12.4</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	09/27/23	While Drilling	12.6	19.0	09/27/23	Before Casing Removed	14.0	24.0	09/27/23	After Casing Removed	7.2	out	09/27/23	After Casing Removed	caved @ 12.4	out				
Date	Time	Depth (Ft.)	Casing At (Ft.)																										
09/27/23	While Drilling	12.6	19.0																										
09/27/23	Before Casing Removed	14.0	24.0																										
09/27/23	After Casing Removed	7.2	out																										
09/27/23	After Casing Removed	caved @ 12.4	out																										
Driller: Dan MacDougall		Casing Hammer:																											
Inspector: Bryan Reles		Other:																											
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel																											
Type: ATV		Hammer Wt: 140 lbs.																											
Rod Size: AWJ		Hammer Fall: 30 in.																											
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %																				
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%																						
0	1A	0.0	0.6	SS/13	1-3-4-5		Dark Brown SILT, trace CLAY, trace ROOTS (moist)		7																				
1	1B	0.6	2.0				Grey/Brown CLAY, some SILT, trace ROOTS (moist, medium stiff)																						
2	2	2.0	4.0	SS/16	4-6-5-5		Grey/Brown CLAY, some SILT (moist, stiff)		11																				
3																													
4	3	4.0	6.0	SS/19	2-2-2-1		Brown CLAY and SILT (wet, medium stiff)		4																				
5																													
6	4	6.0	8.0	SS/17	3-3-2-3		Brown SILT and CLAY (wet, medium stiff)		5																				
7																													
8	5	8.0	10.0	SS/22	2-2-2-1		Brown CLAY, some SILT (wet, medium stiff)		4																				
9																													
10																													
11																													
12																													
13							Augered gravelly beginning @ 12.9'																						
14	6	14.0	16.0	SS/17	11-14-33-14		Brown mf GRAVEL and cmf SAND, little SILT (wet, compact)		47																				
15																													
16																													
17																													
18																													
19	7	19.0	21.0	SS/5	1-5-4-7		Grey mf GRAVEL and cmf SAND, little CLAY, little SILT (wet, loose)		9																				
20							Continued on Page 2																						

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.	B-3
									Page No.	2 of 2
									Report No.	28111B-01-1023
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) FromTo		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	8	23.0	24.2	SS/6	62-73-100@2"		Continued from Page 1		100+	
21							Augers harder beginning @ 21.9' Grey mf GRAVEL, some cmf SAND, trace SILT (wet, very compact) <u>Spoon refusal @ 24.2'.</u> Bottom of Boring @ 24.2'			
22										
23										
24										
25										
26										
27										
28										
29										
30										
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40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-4																					
						Page No.		1 of 2																					
						Report No.		28111B-01-1023																					
Project Name: Micron Healthcare and Childcare Facilities, Clay, New York						Date Started		09/26/23																					
Client: Ramboll						Date Finished		09/26/23																					
Location: See Exploration Location Plan						Surface Elev.		380.1'																					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																							
Driller: Gary Richards		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>09/26/23</td> <td>While Drilling</td> <td>3.6</td> <td>19.0</td> </tr> <tr> <td>09/26/23</td> <td>Before Casing Removed</td> <td>3.6</td> <td>21.9</td> </tr> <tr> <td>09/26/23</td> <td>After Casing Removed</td> <td>3.0</td> <td>out</td> </tr> <tr> <td>09/26/23</td> <td>After Casing Removed</td> <td>caved @ 8.0</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	09/26/23	While Drilling	3.6	19.0	09/26/23	Before Casing Removed	3.6	21.9	09/26/23	After Casing Removed	3.0	out	09/26/23	After Casing Removed	caved @ 8.0	out				
Date	Time	Depth (Ft.)	Casing At (Ft.)																										
09/26/23	While Drilling	3.6	19.0																										
09/26/23	Before Casing Removed	3.6	21.9																										
09/26/23	After Casing Removed	3.0	out																										
09/26/23	After Casing Removed	caved @ 8.0	out																										
Driller: Bryan Reles		Casing Hammer:																											
Inspector: Dan MacDougall		Other:																											
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel																											
Type: ATV		Hammer Wt: 140 lbs.																											
Rod Size: AWJ		Hammer Fall: 30 in.																											
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %																				
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%																						
0	1A	0.0	0.7	SS/15	WH-1-3-5		Dark Brown SILT, some CLAY, trace ROOTS (moist)		4																				
1	1B	0.7	2.0				Brown SILT, some CLAY, trace fine SAND, trace ROOTS (moist, medium stiff)																						
2	2	2.0	4.0	SS/22	4-4-4-5		Brown/Grey mottled CLAY, some SILT (moist, stiff)		8																				
3																													
4	3	4.0	6.0	SS/16	2-2-2-3		Brown/Grey SILT and CLAY (wet, medium stiff)		4																				
5																													
6	4	6.0	8.0	SS/14	3-4-4-5		Brown/Grey SILT, some CLAY, trace fine SAND (wet, stiff)		8																				
7																													
8	5	8.0	10.0	SS/21	2-2-2-2		Brown CLAY, some SILT (wet, medium stiff)		4																				
9																													
10																													
11																													
12																													
13																													
14	6	14.0	16.0	SS/21	WH-WH-WH-1		Brown/Grey CLAY and SILT, trace fine SAND (wet, very soft)		0																				
15																													
16																													
17																													
18																													
19	7A	19.0	19.6	SS/10	1-3-4-5		Grey/Brown mf SAND, some SILT (wet)		7																				
	7B	19.6	21.0				Grey/Brown mf GRAVEL and cmf SAND, little SILT (wet, loose)																						
20							Continued on Page 2																						

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



6035 Corporate Drive
East Syracuse, NY 13057
Phone: 315-701-0522

SUBSURFACE EXPLORATION TEST BORING LOG

Boring No.	B-4
Page No.	2 of 2
Report No.	28111B-01-1023

LOG OF BORING SAMPLES

VISUAL CLASSIFICATION OF MATERIAL

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20	8	21.2	21.7	SS/6	100@6"	-----	Continued from Page 1		100+
21							Started to auger gravelly beginning @ 21.2'		
22							Grey highly weathered ROCK FRAGMENTS, little SILT, trace CLAY (wet) - Spoon refusal @ 21.7' and auger refusal @ 21.9'		
23							Bottom of Boring @ 21.9'		
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

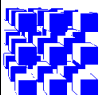
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-5			
						Page No. 1 of 2			
						Report No. 28111B-01-1023			
Project Name: Micron Healthcare and Childcare Facilities, Clay, New York						Date Started 09/27/23			
Client: Ramboll						Date Finished 09/27/23			
Location: See Exploration Location Plan						Surface Elev. 387.4'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller: Gary Richards Driller: Dan MacDougall Inspector: Bryan Reles Drill Rig: CME 55 Type: ATV Rod Size: AWJ		Casing: 3 ¼" ID H.S.A. Casing Hammer: Other: Soil Sampler: 2" OD Split Barrel Hammer Wt: 140 lbs. Hammer Fall: 30 in.		Date 09/27/23 09/27/23 09/27/23 09/27/23		Time While Drilling Before Casing Removed After Casing Removed After Casing Removed			
				Depth (Ft.) 12.8 13.5 10.4 caved @ 10.5		Casing At (Ft.) 19.0 23.0 out out			
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.7	SS/16	1-3-6-6		Dark Brown SILT, trace fine GRAVEL, trace cmf SAND, trace ROOTS (moist, stiff)		9
1	1B	0.7	2.0				Brown/Grey SILT, little CLAY, trace ROOTS (moist, stiff)		
2	2	2.0	4.0	SS/17	6-7-9-10		Brown/Grey SILT and CLAY, trace mf SAND (moist, very stiff)		16
3									
4	3	4.0	6.0	SS/19	3-4-4-5		Similar as above (moist, stiff)		8
5									
6	4A	6.0	6.8	SS/18	5-4-3-6		Brown SILT and CLAY, trace mf SAND (wet)		7
7	4B	6.8	8.0				Brown mf GRAVEL, some cmf SAND, some SILT, trace CLAY (wet, loose)		
8	5	8.0	10.0	SS/14	4-7-10-21		Brown/Grey cmf SAND and mf GRAVEL, some SILT, trace CLAY (moist, medium compact)		17
9							Augers gravelly beginning @ 9.0'		
10									
11									
12									
13									
14	6	14.0	16.0	SS/13	12-13-14-18		Brown mf GRAVEL and cmf SAND, little SILT (wet, medium compact)		27
15									
16									
17									
18									
19	7	19.0	20.4	SS/12	26-68-100@5"		Grey mf GRAVEL and cmf SAND, trace SILT (wet, very compact)		100+
20							Spoon refusal @ 20.4'		
						Continued on Page 2			

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.	B-5
									Page No.	2 of 2
									Report No.	28111B-01-1023
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	8	23.0	23.8	SS/10	21-100@4"		Continued from Page 1		100+	
21										
22										
23							Grey weathered ROCK FRAGMENTS, little SILT, trace ROCK FLOUR (moist) - <i>Spoon refusal @ 23.8'</i>			
24							Bottom of Boring @ 23.8'			
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No.		B-6																					
						Page No.		1 of 1																					
						Report No.		28111B-01-1023																					
Project Name:		Micron Healthcare and Childcare Facilities, Clay, New York				Date Started		09/25/23																					
Client:		Ramboll				Date Finished		09/25/23																					
Location:		See Exploration Location Plan				Surface Elev.		382.3'																					
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																							
Driller: Gary Richards		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>09/25/23</td> <td>While Drilling</td> <td>3.4</td> <td>4.0</td> </tr> <tr> <td>09/25/23</td> <td>Before Casing Removed</td> <td>6.9</td> <td>20.8</td> </tr> <tr> <td>09/25/23</td> <td>After Casing Removed</td> <td>3.8</td> <td>out</td> </tr> <tr> <td>09/25/23</td> <td>After Casing Removed</td> <td>caved @ 6.6</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	09/25/23	While Drilling	3.4	4.0	09/25/23	Before Casing Removed	6.9	20.8	09/25/23	After Casing Removed	3.8	out	09/25/23	After Casing Removed	caved @ 6.6	out				
Date	Time	Depth (Ft.)	Casing At (Ft.)																										
09/25/23	While Drilling	3.4	4.0																										
09/25/23	Before Casing Removed	6.9	20.8																										
09/25/23	After Casing Removed	3.8	out																										
09/25/23	After Casing Removed	caved @ 6.6	out																										
Driller: Bryan Reles		Casing Hammer:																											
Inspector:		Other:																											
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel																											
Type: ATV		Hammer Wt: 140 lbs.																											
Rod Size: AWJ		Hammer Fall: 30 in.																											
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %																				
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%																						
0	1A	0.0	0.6	SS/15	WH-2-1-3		Dark Brown SILT, little CLAY, trace ROOTS (moist)		3																				
1	1B	0.6	2.0				Brown/Grey mottled CLAY, little SILT, trace fine SAND, trace ROOTS (moist, soft)																						
2	2	2.0	4.0	SS/24	3-3-2-3		Brown CLAY, some SILT (moist, medium stiff)		5																				
3																													
4	3	4.0	6.0	SS/17	1-1-1-2		Brown CLAY and SILT (wet, soft)		2																				
5																													
6	4	6.0	8.0	SS/18	2-1-1-1		Brown CLAY, some SILT, trace fine SAND (wet, soft)		2																				
7																													
8	5	8.0	10.0	SS/13	2-2-3-2		Brown SILT, some CLAY, trace fine GRAVEL, trace cmf SAND (wet, medium stiff)		5																				
9																													
10																													
11																													
12																													
13																													
14	6A	14.0	15.4	SS/19	1-1-1-8		Brown CLAY, some SILT, trace fine SAND (wet, soft)		2																				
15	6B	15.4	16.0				Grey fine GRAVEL and cmf SAND, little SILT (wet)																						
16																													
17																													
18																													
19	7A	19.0	19.8	SS/12	2-4-100@5"		Grey mf GRAVEL and cmf SAND, little SILT (wet)		100+																				
	7B	19.8	20.4				Grey weathered ROCK FRAGMENTS and ROCK FLOUR (moist)																						
20							Auger refusal @ 20.8'. Bottom of Boring @ 20.8'																						

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-7			
						Page No. 1 of 2			
						Report No. 28111B-01-1023			
Project Name: Micron Healthcare and Childcare Facilities, Clay, New York						Date Started 09/26/23			
Client: Ramboll						Date Finished 09/26/23			
Location: See Exploration Location Plan						Surface Elev. 381.9'			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS			
Driller: Gary Richards Driller: Bryan Reles Inspector: Dan MacDougall Drill Rig: CME 55 Type: ATV Rod Size: AWJ		Casing: 3 ¼" ID H.S.A. Casing Hammer: Other: Soil Sampler: 2" OD Split Barrel Hammer Wt: 140 lbs. Hammer Fall: 30 in.		Date 09/26/23 09/26/23 09/26/23 09/26/23		Time While Drilling Before Casing Removed After Casing Removed After Casing Removed			
				Depth (Ft.) None Noted 8.8 6.7 caved @ 7.2		Casing At (Ft.) 19.0 22.5 out out			
LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.6		WH-1-2-3		Dark Brown SILT, little CLAY, trace ROOTS (moist)		3
1	1B	0.6	2.0				Brown CLAY, little SILT, trace ROOTS (moist, soft)		
2	2	2.0	4.0	SS/22	2-2-3-2		Brown CLAY, some SILT (wet, medium stiff)		5
3									
4	3	4.0	6.0	SS/17	3-4-4-6		Brown SILT and CLAY, trace fine SAND (wet, stiff)		8
5									
6	4	6.0	8.0	SS/12	5-4-3-2		Brown mottled CLAY, some SILT (wet, medium stiff)		7
7									
8	5	8.0	10.0	SS/20	2-2-2-2		Brown SILT and CLAY (wet, medium stiff)		4
9									
10									
11									
12									
13									
14	6	14.0	16.0	SS/19	WH-WH-2-1		Grey/Brown CLAY, some SILT (wet, soft)		2
15									
16									
17									
18							Augers gravelly beginning @ 17.8'		
19	7	19.0	21.0	SS/15	1-4-5-13		Grey/Brown mf GRAVEL and cmf SAND, some SILT (wet, loose)		9
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



6035 Corporate Drive
East Syracuse, NY 13057
Phone: 315-701-0522

SUBSURFACE EXPLORATION TEST BORING LOG

Boring No.	B-7
Page No.	2 of 2
Report No.	28111B-01-1023

LOG OF BORING SAMPLES

VISUAL CLASSIFICATION OF MATERIAL

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20	8	22.5	22.6	SS/1	100@1"		Continued from Page 1		
21							Augers harder beginning @ 21.4'		
22							Auger refusal @ 22.5'		
23							Grey weathered ROCK FRAGMENTS, little ROCK FLOUR (moist)		100+
24							Bottom of Boring @ 22.6'		
25									
26									
27									
28									
29									
30									
31									
32									
33									
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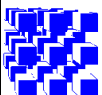
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG				Boring No. B-8																			
						Page No. 1 of 2																			
						Report No. 28111B-01-1023																			
Project Name: Micron Healthcare and Childcare Facilities, Clay, New York						Date Started 09/25/23																			
Client: Ramboll						Date Finished 09/25/23																			
Location: See Exploration Location Plan						Surface Elev. 383.4'																			
METHODS OF INVESTIGATION						GROUNDWATER OBSERVATIONS																			
Driller: Gary Richards		Casing: 3 ¼" ID H.S.A.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>09/25/23</td> <td>While Drilling</td> <td>7.2</td> <td>23.0</td> </tr> <tr> <td>09/25/23</td> <td>Before Casing Removed</td> <td>7.2</td> <td>23.0</td> </tr> <tr> <td>09/25/23</td> <td>After Casing Removed</td> <td>5.4</td> <td>out</td> </tr> <tr> <td>09/25/23</td> <td>After Casing Removed</td> <td>caved @ 8.8</td> <td>out</td> </tr> </tbody> </table>		Date	Time	Depth (Ft.)	Casing At (Ft.)	09/25/23	While Drilling	7.2	23.0	09/25/23	Before Casing Removed	7.2	23.0	09/25/23	After Casing Removed	5.4	out	09/25/23	After Casing Removed	caved @ 8.8	out
Date	Time	Depth (Ft.)	Casing At (Ft.)																						
09/25/23	While Drilling	7.2	23.0																						
09/25/23	Before Casing Removed	7.2	23.0																						
09/25/23	After Casing Removed	5.4	out																						
09/25/23	After Casing Removed	caved @ 8.8	out																						
Driller: Bryan Reles		Casing Hammer:																							
Inspector:		Other:																							
Drill Rig: CME 55		Soil Sampler: 2" OD Split Barrel																							
Type: ATV		Hammer Wt: 140 lbs.																							
Rod Size: AWJ		Hammer Fall: 30 in.																							
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL																			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %																
		From	To																						
0	1A	0.0	0.9	SS/18	1-2-3-4		Black/Brown SILT and CLAY, trace fine SAND, trace ROOTS (moist) <i>Reworked Material</i>		5																
1	1B	0.9	2.0				Grey/Brown mottled SILT, little CLAY, trace fine SAND (moist, medium stiff)																		
2	2	2.0	4.0	SS/24	3-4-6-5		Grey/Brown mottled CLAY, little SILT (moist, stiff)		10																
3																									
4	3	4.0	6.0	SS/17	3-3-2-2		Brown/Grey CLAY, some SILT, trace fine SAND (wet, medium stiff)		5																
5																									
6	4	6.0	8.0	SS/20	1-2-4-4		Brown/Grey SILT, some CLAY (wet, medium stiff)		6																
7																									
8	5	8.0	10.0	SS/14	1-3-2-3		Grey/Brown CLAY, some SILT, trace fine SAND (wet, medium stiff)		5																
9																									
10																									
11																									
12																									
13																									
14	6	14.0	16.0	SS/16	WH-WH-WH-2		Grey CLAY, some SILT (wet, very soft)		0																
15																									
16																									
17																									
18							<i>Augered gravelly beginning @ 17.8'.</i>																		
19	7	19.0	21.0	SS/8	3-5-5-5		Grey/Brown mf GRAVEL and cmf SAND, little SILT (wet, medium compact)		10																
20							Continued on Page 2																		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522						SUBSURFACE EXPLORATION TEST BORING LOG			Boring No.	B-8
									Page No.	2 of 2
									Report No.	28111B-01-1023
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
20	8	23.0	23.2	SS/2	100@2"		Continued from Page 1		100+	
21										
22										
23							<i>Augers hard beginning @ 22.6'. Augers very hard @ 22.8'.</i>			
24							Grey weathered ROCK FRAGMENTS, little SILT (wet)			
25							Bottom of Boring @ 23.2'			
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

	6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID	TP-1	
					Page No.	1 of 1	
					Report No.	28111B-01-1023	
Project Name:			Micron Healthcare and Childcare Facilities, Clay, New York		Date Started	09/27/23	
Client:			Ramboll		Date Finished	09/27/23	
Location:			See Exploration Location Plan		Surface Elev.	388.2'	
METHOD OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
Operator: Daryl Sherman				Date	Time	Depth (Ft.)	Comment
Inspector: Astitwa Sharma, EIT				9/27/2023	9:18	None Noted	None Noted
Equipment: Link Belt Model LNK 27							
Type: Toothed Bucket							
Bucket Width: 24"							
VISUAL CLASSIFICATION OF MATERIAL							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
0				1	Topsoil and Organic Material (moist, easy digging)		
1					Brown SILT, little CLAY, trace fine SAND (moist, easy digging)		
2				3	Brown mottled SILT, some CLAY, trace fine SAND (moist, moderate digging)		
3							
4				6	Brown mottled SILT and CLAY, trace fine GRAVEL, trace fine SAND (moist, moderate digging)		
5							
6				8.5	Brown CLAY and SILT, trace fine SAND (moist, moderate digging)		
7							
8							
9							
10							
11					Bottom of Test Pit @ 10.5'		
12							
13							
14							
15							
16							
Remarks:							
1. See Test Pit Photographs, attached.							
2. Test Pit excavated by a subcontractor to CME utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.							

 CME Associates, Inc.	6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID	TP-2
					Page No.	1 of 1
					Report No.	28111B-01-1023
Project Name:			Micron Healthcare and Childcare Facilities, Clay, New York		Date Started	09/27/23
Client:			Ramboll		Date Finished	09/27/23
Location:			See Exploration Location Plan		Surface Elev.	387.9'
METHOD OF INVESTIGATION				GROUNDWATER OBSERVATIONS		
Operator: Daryl Sherman				Date	Time	Depth (Ft.)
Inspector: Astitwa Sharma, EIT				9/27/2023	8:53	None Noted
Equipment: Link Belt Model LNK 27						
Type: Toothed Bucket						
Bucket Width: 24"						
VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%
0				1	Topsoil and Organic Material (moist)	
1					Brown SILT, some CLAY, trace fine SAND (moist, easy digging)	
2						
3				4	Brown/Grey CLAY, some SILT (wet, easy to moderate digging)	
4						
5						
6						
7				8	Brown/Grey CLAY and SILT, trace cmf GRAVEL, trace fine SAND (wet, moderate digging)	
8						
9					Bottom of Test Pit @ 9.0'	
10						
11						
12						
13						
14						
15						
16						
Remarks: 1. See Test Pit Photographs, attached. 2. Test Pit excavated by a subcontractor to CME utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.						

	6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID	TP-3	
					Page No.	1 of 1	
					Report No.	28111B-01-1023	
Project Name:			Micron Healthcare and Childcare Facilities, Clay, New York		Date Started	09/27/23	
Client:			Ramboll		Date Finished	09/27/23	
Location:			See Exploration Location Plan		Surface Elev.	384.1'	
METHOD OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
Operator: Daryl Sherman				Date	Time	Depth (Ft.)	Comment
Inspector: Astitwa Sharma, EIT				9/27/2023	9:33	5	See Remark 3
Equipment: Link Belt Model LNK 27							
Type: Toothed Bucket							
Bucket Width: 24"							
VISUAL CLASSIFICATION OF MATERIAL							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
0				0.5	Topsoil and Organic Material (moist)		
				1	Brown SILT, some CLAY, trace fine SAND (moist, easy digging)		
1					Brown mottled SILT, some CLAY, little fine SAND		
				2			
2					Brown/Grey mottled SILT and CLAY, trace mf SAND (moist, moderate digging)		
3							
4							
				5			
5					Brown/Grey mottled CLAY and SILT, trace fine SAND (wet, moderate digging)		
6							
				7			
7					Brown/Redish mottled CLAY and SILT, trace fine SAND (wet, moderate digging)		
8					Bottom of Test Pit @ 8.0'		
9							
10							
11							
12							
13							
14							
15							
16							
Remarks:							
1. See Test Pit Photographs, attached.							
2. Test Pit excavated by a subcontractor to CME utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.							
3. Groundwater noted to seep from the sides starting from the depth referenced. Less than 1-inch of water collected at the bottom of the Test Pit.							

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522	SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID	TP-4		
			Page No.	1 of 1		
			Report No.	28111B-01-1023		
Project Name:	Micron Healthcare and Childcare Facilities, Clay, New York			Date Started	09/27/23	
Client:	Ramboll			Date Finished	09/27/23	
Location:	See Exploration Location Plan			Surface Elev.	384.9'	
METHOD OF INVESTIGATION			GROUNDWATER OBSERVATIONS			
Operator:	Daryl Sherman		Date	Time	Depth (Ft.)	Comment
Inspector:	Astitwa Sharma, EIT		9/27/2023	9:47	5	See Remark 3
Equipment:	Link Belt Model LNK 27					
Type:	Toothed Bucket					
Bucket Width:	24"					
VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%
0				1	Topsoil and Organic Material (moist, easy digging)	
1					Brown SILT, some CLAY, trace fine SAND (moist, easy digging)	
2						
3				3	Brown mottled SILT and CLAY, trace fine SAND (moist, moderate digging)	
4						
5				5	Brown/Reddish CLAY and SILT, little fine SAND (wet, moderate digging)	
6						
7						
8						
9					Bottom of Test Pit @ 8.5'	
10						
11						
12						
13						
14						
15						
16						
Remarks:						
1. See Test Pit Photographs, attached.						
2. Test Pit excavated by a subcontractor to CME utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.						
3. Groundwater noted to seep from the sides starting from the depth referenced. Less than 1-inch of water collected at the bottom of the Test Pit.						

	6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID	TP-5	
					Page No.	1 of 1	
					Report No.	28111B-01-1023	
Project Name:			Micron Healthcare and Childcare Facilities, Clay, New York		Date Started	09/27/23	
Client:			Ramboll		Date Finished	09/27/23	
Location:			See Exploration Location Plan		Surface Elev.	382.3'	
METHOD OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
Operator: Daryl Sherman				Date	Time	Depth (Ft.)	Comment
Inspector: Astitwa Sharma, EIT				9/27/2023	9:57	4	See Remark 3
Equipment: Link Belt Model LNK 27							
Type: Toothed Bucket							
Bucket Width: 24"							
VISUAL CLASSIFICATION OF MATERIAL							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
0				0.5	Topsoil and Organic Material (moist, easy digging)		
1					Brown SILT, little CLAY, trace fine SAND (moist, easy digging)		
2				2.5	Brown/Grey SILT, some CLAY, trace fine SAND (moist, easy digging)		
3							
4				4	Brown/Grey mottled SILT and CLAY, trace fine SAND (wet, moderate digging)		
5							
6				7	Grey CLAY, little SILT (wet, moderate digging)		
7							
8					Bottom of Test Pit @ 8.0'		
9							
10							
11							
12							
13							
14							
15							
16							
Remarks:							
1. See Test Pit Photographs, attached.							
2. Test Pit excavated by a subcontractor to CME utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.							
3. Groundwater noted to seep from the sides starting from the depth referenced. Less than 1-inch of water collected at the bottom of the Test Pit.							

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522	SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID	TP-6		
			Page No.	1 of 1		
			Report No.	28111B-01-1023		
Project Name:	Micron Healthcare and Childcare Facilities, Clay, New York		Date Started	09/27/23		
Client:	Ramboll		Date Finished	09/27/23		
Location:	See Exploration Location Plan		Surface Elev.	380.9'		
METHOD OF INVESTIGATION		GROUNDWATER OBSERVATIONS				
Operator:	Daryl Sherman		Date	Time		
Inspector:	Astitwa Sharma, EIT		9/27/2023	11:54		
Equipment:	Link Belt Model LNK 27		Depth (Ft.)	Comment		
Type:	Toothed Bucket		3	See Remark 3		
Bucket Width:	24"					
VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%
		From	To			
0				1	Topsoil and Organic Material (moist, easy digging)	
1					Brown SILT, little CLAY, trace fine SAND (moist, easy digging)	
2						
3				4	Grey/Reddish Brown mottled SILT, some CLAY, trace fine SAND (wet, moderate digging)	
4						
5				7	Grey/Brown mottled SILT and CLAY, trace fine SAND, trace fine GRAVEL (wet, moderate digging)	
6						
7				10	Grey CLAY and SILT, trace mf GRAVEL (wet, moderate digging)	
8						
9						
10						
11					Bottom of Test Pit @ 11.0'	
12						
13						
14						
15						
16						
Remarks:						
1. See Test Pit Photographs, attached.						
2. Test Pit excavated by a subcontractor to CME utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.						
3. Groundwater noted to seep from the sides starting from the depth referenced. Less than 1-inch of water collected at the bottom of the Test Pit.						

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522	SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID	TP-7	
			Page No.	1 of 1	
			Report No.	28111B-01-1023	
Project Name:	Micron Healthcare and Childcare Facilities, Clay, New York			Date Started	09/27/23
Client:	Ramboll			Date Finished	09/27/23
Location:	See Exploration Location Plan			Surface Elev.	380.0'
METHOD OF INVESTIGATION			GROUNDWATER OBSERVATIONS		
Operator:	Daryl Sherman		Date	Time	Depth (Ft.)
Inspector:	Astitwa Sharma, EIT		9/27/2023	10:24	3
Equipment:	Link Belt Model LNK 27				
Type:	Toothed Bucket				
Bucket Width:	24"				
VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%
0				1	Topsoil and Organic Material (moist, easy digging)
1					Grey/Brown SILT, some CLAY, little fine SAND (moist, easy digging)
2					
3				3	Grey/Brown mottled SILT and CLAY, trace fine SAND (wet, moderate digging)
4					
5				5	Brown/Reddish CLAY and SILT, trace fine SAND (wet, moderate digging)
6					
7				7.5	Brown/Reddish mottled CLAY and SILT (wet, moderate digging)
8					
9					Bottom of Test Pit @ 9.0'
10					
11					
12					
13					
14					
15					
16					
Remarks: 1. See Test Pit Photographs, attached. 2. Test Pit excavated by a subcontractor to CME utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth. 3. Groundwater noted to seep from the sides starting from the depth referenced. Less than 1-inch of water collected at the bottom of the Test Pit.					

	6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID	TP-8	
					Page No.	1 of 1	
					Report No.	28111B-01-1023	
Project Name:			Micron Healthcare and Childcare Facilities, Clay, New York		Date Started	09/27/23	
Client:			Ramboll		Date Finished	09/27/23	
Location:			See Exploration Location Plan		Surface Elev.	381.8'	
METHOD OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
Operator: Daryl Sherman				Date	Time	Depth (Ft.)	Comment
Inspector: Astitwa Sharma, EIT				9/27/2023	10:39	4	See Remark 3
Equipment: Link Belt Model LNK 27							
Type: Toothed Bucket							
Bucket Width: 24"							
VISUAL CLASSIFICATION OF MATERIAL							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
0				0.5	Topsoil and Organic Material (moist, easy digging)		
1					Brown SILT, little mf SAND, trace CLAY (moist, easy digging)		
2				2	Grey/Brown mottled SILT, some CLAY, little fine SAND (moist, easy digging)		
3							
4				4	Grey/Reddish Brown SILT and CLAY, trace fine SAND (wet, moderate digging)		
5							
6							
7				7	Grey/Reddish Brown CLAY and SILT, trace fine SAND (wet, moderate digging)		
8							
9							
10				10	Grey CLAY and SILT (wet, easy digging)		
11					Bottom of Test Pit @ 10.5'		
12							
13							
14							
15							
16							
Remarks:							
1. See Test Pit Photographs, attached.							
2. Test Pit excavated by a subcontractor to CME utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.							
3. Groundwater noted to seep from the sides starting from the depth referenced. Less than inch of water collected at the bottom of the Test Pit.							

 CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522	SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID	TP-9		
			Page No.	1 of 1		
			Report No.	28111B-01-1023		
Project Name:	Micron Healthcare and Childcare Facilities, Clay, New York			Date Started	09/27/23	
Client:	Ramboll			Date Finished	09/27/23	
Location:	See Exploration Location Plan			Surface Elev.	380.8'	
METHOD OF INVESTIGATION			GROUNDWATER OBSERVATIONS			
Operator:	Daryl Sherman		Date	Time	Depth (Ft.)	Comment
Inspector:	Astitwa Sharma, EIT		9/27/2023	10:55	3	See Remark 3
Equipment:	Link Belt Model LNK 27					
Type:	Toothed Bucket					
Bucket Width:	24"					
VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%
0				1	Topsoil and Organic Material (moist, easy digging)	
1					Brown SILT, some mf SAND, trace CLAY (moist, easy digging)	
2				3	Grey/Brown SILT, some CLAY, trace fine SAND (wet, easy digging)	
3						
4				6	Brown/Reddish mottled SILT and CLAY, trace fine SAND (wet, moderate digging)	
5						
6						
7						
8						
9						
10					Bottom of Test Pit @ 9.5'	
11						
12						
13						
14						
15						
16						
Remarks: 1. See Test Pit Photographs, attached. 2. Test Pit excavated by a subcontractor to CME utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth. 3. Groundwater noted to seep from the sides starting from the depth referenced. Less than 1-inch of water collected at the bottom of the Test Pit.						

 CME Associates, Inc.	6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID	TP-10
					Page No.	1 of 1
					Report No.	28111B-01-1023
Project Name:			Micron Healthcare and Childcare Facilities, Clay, New York		Date Started	09/27/23
Client:			Ramboll		Date Finished	09/27/23
Location:			See Exploration Location Plan		Surface Elev.	381.2'
METHOD OF INVESTIGATION				GROUNDWATER OBSERVATIONS		
Operator: Daryl Sherman				Date	Time	Depth (Ft.)
Inspector: Astitwa Sharma, EIT				9/27/2023	11:30	4
Equipment: Link Belt Model LNK 27						
Type: Toothed Bucket						
Bucket Width: 24"						
VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%
0				1	Topsoil and Organic Material (moist, easy digging)	
1					Brown SILT, some CLAY, trace fine SAND (moist, easy digging)	
2						
3				3	Brown/Grey mottled SILT and CLAY, trace fine SAND (wet, moderate digging)	
4						
5						
6						
7						
8						
9						
10					Bottom of Test Pit @ 9.5'	
11						
12						
13						
14						
15						
16						
Remarks:						
1. See Test Pit Photographs, attached.						
2. Test Pit excavated by a subcontractor to CME utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.						
3. Groundwater noted to seep from the sides starting from the depth referenced. Less than 1-inch of water collected at the bottom of the Test Pit.						

	6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST PIT LOG		Test Pit ID	TP-11	
					Page No.	1 of 1	
					Report No.	28111B-01-1023	
Project Name:			Micron Healthcare and Childcare Facilities, Clay, New York		Date Started	09/27/23	
Client:			Ramboll		Date Finished	09/27/23	
Location:			See Exploration Location Plan		Surface Elev.	384.2'	
METHOD OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
Operator: Daryl Sherman				Date	Time	Depth (Ft.)	Comment
Inspector: Astitwa Sharma, EIT				9/27/2023	10:10	4	See Remark 3
Equipment: Link Belt Model LNK 27							
Type: Toothed Bucket							
Bucket Width: 24"							
VISUAL CLASSIFICATION OF MATERIAL							
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
0				0.5	Topsoil and Organic Material (moist, easy digging)		
1					Brown SILT, little fine SAND, little CLAY (moist, easy digging)		
2				2.5	Brown mottled SILT, some CLAY, trace fine SAND (moist, easy digging)		
3				4	Brown/Grey mottled SILT and CLAY, trace fine SAND (wet, easy digging)		
4							
5				6	Brown/Reddish CLAY and SILT, trace fine SAND (wet, moderate digging)		
6							
7							
8							
9					Bottom of Test Pit @ 8.5'		
10							
11							
12							
13							
14							
15							
16							
Remarks:							
1. See Test Pit Photographs, attached.							
2. Test Pit excavated by a subcontractor to CME utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.							
3. Groundwater noted to seep from the sides starting from the depth referenced. Less than 1-inch of water collected at the bottom of the Test Pit.							

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Test Pit Photographs

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Figure 1: Test Pit TP-1



Figure 2: Materials Excavated from Test Pit TP-1

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Test Pit Photographs

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Figure 3: Test Pit TP- 2



Figure 4: Material Excavated from Test Pit TP-2

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Test Pit Photographs

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Figure 5: Test Pit TP-3



Figure 6: Materials Excavated from Test Pit TP-3

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Test Pit Photographs

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Figure 7: Test Pit TP-4



Figure 8: Materials Excavated from Test Pit -4

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Test Pit Photographs

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Figure 9: Test Pit TP-5



Figure 10: Materials Excavated from Test Pit TP-5

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Test Pit Photographs

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Figure 11: Test Pit TP-6



Figure 12: Materials Excavated from Test Pit TP-6

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Test Pit Photographs

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Figure 13: Test Pit TP-7



Figure 14: Materials Excavated from Test Pit TP-7

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Test Pit Photographs

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Figure 15: Test Pit TP-8



Figure 16: Materials Excavated from Test Pit -8

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Test Pit Photographs

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Figure 17: Test Pit TP-9



Figure 18: Materials Excavated from Test Pit TP-9

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Test Pit Photographs

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Figure 19: Test Pit TP-10



Figure 20: Materials Excavated from Test Pit TP-10

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Test Pit Photographs

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Figure 21: Test Pit TP-11



Figure 22: Materials Excavated from Test Pit TP-11



GENERAL INFORMATION & KEY TO TEST BORING LOGS

The **Subsurface Exploration – Test Boring Logs** produced by **CME Associates, Inc.** (CME) present observations and mechanical data collected by the CME Drill Crew while at the site, supplemented, at times, by classification of the materials removed from the borings determined through visual identification by technicians in the laboratory. It is cautioned that the materials removed from the borings represent only a fraction of the total volume of the deposits at the site and may not necessarily be representative of the subsurface conditions between adjacent borings or between the sampled intervals. The data presented on the Exploration Logs together with the recovered samples will provide a basis for evaluating the character of the subsurface conditions relative to the proposed construction. The evaluation must consider all the recorded details and their significance relative to each other. Often, analyses of standard boring data indicate the need for additional testing and sampling procedures to more accurately evaluate the subsurface conditions. Any evaluations of the contents of CME's report and the recovered samples must be performed by Licensed Professionals having experience in Soil Mechanics, Geological Sciences and Geotechnical Engineering. The information presented in this Key defines some of the methods, procedures and terms used on the CME Exploration Logs to describe the conditions encountered. Refer to the Log on page 4 for key number.

Key No.

Description

1. The figures in the **DEPTH SCALE** column define the vertical scale of the Boring Log.
2. The **SAMPLE NO.** is used for identification on the sample containers and in the Laboratory Test Report or Summary.
3. The **SAMPLE DEPTH** column gives the depth range from which a sample was recovered.
4. The **TYPE / SAMPLE RECOVERY** column is used to signify the various types of samples. "SS is Split Spoon, "U" is Undisturbed Tube, and "C" is Rock Core. For soil and rock samples, the recovered length of the sample is recorded in inches.
5. **BLOWS ON SAMPLER** – This column shows the results of the "Standard Penetration Test (SPT) ASTM D1586", recording the number of blows required to drive a 2-inch outside diameter (O.D.) split spoon sampler into the ground beneath the casing. The number of blows required for each six inches of penetration is recorded. The total number of blows required for the 6-inch to 18-inch interval is summarized in the **SPT "N"** column and represents the "Standard Penetration Number". The outside diameter of the sampler, the hammer weight and the length of drop are noted in the **Methods of Investigation** portion of the log. A "WH" or "WR" in this column indicates that the sample spoon advanced a 6-inch interval under the **Weight of Hammer + Rod** or **Weight of Rod**, respectively. If a rock core sample is taken, the core bit size designation is given here.
6. The **DEPTH OF CHANGE** column designates the depth (in feet) that the driller noted a compactness or stratum change. In soft materials or soil strata exhibiting a consistent relative density, it is difficult for the driller to determine the exact change from one stratum to the next. In addition, a grading or gradual change may exist. In such cases the depth noted is approximate or estimated only and may be represented by a dashed line. When continuous split spoon sampling is not employed, or an interval of several feet exists between samplings, the Depth of Change may not be indicated at all.
7. **VISUAL CLASSIFICATION OF MATERIAL** – Soil materials sampled and recovered are described by the Driller or Geotechnical Representative on the original field log. Notes of the Drillers observations are also placed in this column. Recovered samples may also be visually classified by a Geologist, Engineer, or Soil Technician. Visual soil classifications are made using a modified Burmister System as practiced by CME and as generally described in this Key and abbreviated on the Test Boring Log. This modified Burmister System is a type of visual-manual textural classification estimated by the Driller, Geologist, Engineer, or Technician on the basis of weight-fraction of the recovered material and estimated plasticity, among other characteristics. See Table 1 "**Classification of Materials**". The description of the relative compactness or consistency is based upon the standard penetration number as defined in Table 2. The description of the recovered sample moisture condition is described as dry, moist, wet, or saturated. Water used to advance the boring may affect the moisture content of the recovered sample. Special terms may be used to describe recovered materials in greater detail, such terms are listed in ASTM D653. When sampling gravelly soils with a standard two-inch O.D. Split Spoon, the true percentage of gravel is often not recovered due to the relatively small sampler diameter. The presence of boulders, cobbles, and large gravel is sometimes, but not necessarily, detected by observation of the casing advancement and sampler blows and/or through the "action" of the drill rig, sampler and/or casing as reported by the Driller.

The description of **Rock** is based upon the recovered rock core. Terms frequently used in the description are included in Tables 3, 4 and 5. The length of core run is defined as length of penetration between retrievals of the core barrel from the bore hole, expressed in inches. The core recovery expresses the length of core recovered from the core barrel per core run, in percent. The size core barrel used is noted in Column 5. An "N" size core, being larger in diameter than "A" size core, often produces better recovery, and is frequently utilized where accurate information regarding the geologic conditions and engineering properties is needed. An estimate of in-situ rock quality is provided by a modified core recovery ratio known as the "**Rock Quality Designation**" (**RQD**). This ratio is determined by considering only pieces of core that are at least 4 inches long and are hard and sound. Breaks obviously caused by drilling are ignored. The percentage ratio between the total length of such core recovered and the length of core drilled on a given run is the RQD. Table 4 indicates in-situ rock quality as related to the **RQD**.



8. The **SPT "N"** or **RQD** is given in this column as applicable to the specific sample taken. In Very Compact coarse-grained soils and in Hard fine-grained soils the N-value may be indicated as 50+ or 100+. This typically means that the blow count was achieved prior to driving the sampler the entire 6-inch interval or the sampler refused further penetration. For an "N" size rock core, the RQD is reported here, expressed in percent (%).
9. **GROUNDWATER OBSERVATIONS** and timing noted by the Drill Crew are shown in this section. It is important to realize that the reliability of the water level observations depend upon the soil type (e.g. water does not readily stabilize in a hole through fine grained soils), and that drill water used to advance the boring may have influenced the observations. Groundwater levels typically fluctuate seasonally so those noted on the log are only representative of that exhibited during the period of time noted on the log. One or more perched or trapped water levels may exist in the ground seasonally. All the available resources and data should be evaluated. If definite conclusions cannot be made, it is often prudent to examine the conditions more thoroughly through test pit excavations or through groundwater observation well installations.
10. **METHODS of INVESTIGATION** provides pertinent information regarding the identity of the Drill Crew members, inspector (if any), drill rig make and model, drill rig mount vehicle, casing and type of advancement, soil and rock sampling tools and appurtenances used in the installation of the Test Boring.

TABLE 1 - CLASSIFICATION OF MATERIALS	
GROUP	COARSE GRAINED SOILS TEXTURAL SIZES
BOULDERS	larger than 12" diameter
COBBLES	12" diameter to 3" sieve
GRAVEL	3" - coarse - 1" - medium - 1/2" - fine - #4 sieve
SAND	#4 - coarse - #10 - medium - #40 - fine - #200 sieve
GROUP	FINE GRAINED SOILS SIZE (PLASTICITY*)
SILT	#200 sieve (0.074mm) to 0.005mm size (see below *)
CLAY	0.005mm size to 0.001 mm size (see below *)
GROUP	ORGANIC SOILS, PEAT, MUCK, MARL
ORGANIC	Based on smell, visual-manual and laboratory testing

ABBREVIATIONS	TERM	ESTIMATED PERCENT OF TOTAL SAMPLE BY WEIGHT
f - fine	and	35 to 50%
m - medium	some	20 to 35%
c - coarse	little	10 to 20%
	trace	0 to 10%

*PLASTICITY DESCRIPTIONS and INDICATOR FIELD TESTS			
TERM	PLASTICITY INDEX	DRY STRENGTH TEST	
		INDICATION	FIELD TEST RESULT
non-plastic	0 - 3	Very low	falls apart easily
slightly plastic	4 - 15	Slight	easily crushed by fingers
plastic	15 - 30	Medium	difficult to crush
highly plastic	31 or more	High	impossible to crush with fingers
Other Field Tests include: Dilatancy, Thread and Shine Testing			

**TABLE 2 - DESCRIPTION OF SOIL COMPACTNESS OR CONSISTENCY based on SPT "N"***

Primary Soil Type	Descriptive Term of Compactness	Range of Standard Penetration Resistance (N)
COARSE GRAINED SOILS	Very Loose	less than 4 blows per foot
(More than half of Material is larger than No. 200 sieve size)	Loose	4 to 10
	Medium Compact	10 to 30
	Compact	30 to 50
	Very Compact	Greater than 50
FINE GRAINED SOILS	Descriptive Term of Consistency	Range of Standard Penetration Resistance (N)
(More than half of material is smaller than No. 200 sieve size)	Very Soft	less than 2 blows per foot
	Soft	2 to 4
	Medium Stiff	4 to 8
	Stiff	8 to 15
	Very Stiff	15 to 30
	Hard	Greater than 30
*The number of blows of 140-pound weight falling 30 inches to drive a 2-inch O.D., 1-3/8 inch I.D. sampler 12 inches is defined as the Standard Penetration Resistance, designated "N".		

TABLE 3 - ROCK CLASSIFICATION TERMS

Rock Classification Terms		Field Test or Meaning of Term
Hardness	Soft	Scratched by fingernail. Crumbles under firm blows with a geologic pick.
	Medium Soft	Shallow indentations (1 to 3 mm) can be made by firm blows of a geologic pick. Can be peeled with a pocketknife with difficulty.
	Medium Hard	Scratched distinctly by penknife or steel nail. Can't be peeled or scraped with knife.
	Hard	Scratched with difficulty by penknife or steel nail. Requires more than one blow with a geologic hammer to break it
	Very Hard	Cannot be scratched by penknife or steel nail. Breaks only by repeated heavy blows with a geologic hammer.
Bedding (Divisional planes and/or surfaces separating it from layers above and below)	Thinly Laminated Laminated Thinly Bedded Medium Bedded Thickly Bedded Massive	less than 1/8 th inch 1/8 th to 1 inch 1 inch to 4 inches 4 inches to 12 inches 12 inches to 48 inches greater than 48 inches

**TABLE 4
Relation of Rock Quality Designation (RQD) and in-situ Rock Quality**

RQD %	Rock Quality Term Used
90 to 100	Excellent
75 to 90	Good
50 to 75	Fair
25 to 50	Poor
0 to 25	Very Poor

**TABLE 5 – BEDROCK WEATHERING CLASSIFICATION**

Classification	Diagnostic Features
Fresh	No visible sign of decomposition or discoloration. Rings under hammer impact.
Slightly Weathered	Slight discoloration inwards from open fractures, otherwise similar to Fresh.
Moderately Weathered	Discoloration throughout. Strength somewhat less than fresh rock but cores cannot be broken by hand or scraped with knife. Texture observed.
Highly Weathered	Most minerals somewhat decomposed. Specimens can be broken by hand with effort or shaved with knife. Core stones present in rock mass. Texture becoming indistinct but fabric preserved.
Completely Weathered	Minerals decomposed to soil, but fabric and structure preserved (e.g. Saprolite). Specimens easily crumbled or penetrated.
Residual Soil	Advanced state of decomposition resulting in plastic soils. Rock fabric and structure completely destroyed. Large volume change.

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		SUBSURFACE EXPLORATION TEST BORING LOG		Boring No. B-2				
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				Report No. 				
Project Name:				Date Started				
Client:				Date Finished				
Location:				Surface Elev.				
METHODS OF INVESTIGATION			GROUNDWATER OBSERVATIONS					
Driller: 10 Driller: Inspector: Drill Rig: Type: Rod Size:	Casing: 10 Casing Hammer: Other: Soil Sampler: Hammer Wt: Hammer Fall:	Date Time While Drilling Before Casing Removed After Casing Removed After Casing Removed	Depth (Ft.) 9 	Casing At (Ft.) 9 				
LOG OF BORING SAMPLES			VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
1	2	3 3	4	5	6	7		8

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: