BORING LOG

Geosyntec consultants

Boring ID	B3504	Geologist	SP
Project No.	MNOS 326-109102	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/13/21
Driller/helper(s)	Blake + Rich	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.1	1600	0-10" Light brown silty fine sand. Moist. Dense 10-20" Brown sandy gravel with silt. Fill. Dry, Poorly sorted. Medium dense. Sub angular.	24	23	5	
2	0.2	1605	0-24" Light brown to brown clay with gravel and sand. Stiff. Moist. Fill. Poorly sorted. Subangular.	24	24	5 (Hold)	2
4			EOB @ 4'				4
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID	B3510	Geologist	SP
Project No.	MN06326/69/02	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/13/21
Driller/helper(s)	Blake + Rich	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	1.5	1620	0-14" Orange red medium sand, Medium dense, well sorted, Moist 14-24" Dark brown to black angular gravel with fine to coarse sand. Fill. Poorly sorted, Dense.	24	24	S	
2	0.6	1625	0-24" SAA	24	24	S (Hold)	2
4							4
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3511
Project No.: MN08326 109103
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Blake + Rich
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/13/20
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	1.2	1640	0-14" Brown silt w/ fine sand. Dense. Moist. 14-18" Dark brown sandy gravel w/ silt. Fill. Moist. Poorly sorted. Dense. Sub rounded.	24	18	M	
2							2
	0.8	1645	0-22" SAA	24	22	M (Hold)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B3512
Project No.: MN08326/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Blatie + Rich
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/13/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.7	1450	0-15" Light brown silty fine sand. Dense. Moist. 15-24" Dark brown and grey sandy gravel with silt. Fill. Dense. Poorly sorted. Moist. Sub rounded to sub angular. Fine to coarse sand	24	24	M	
2							2
	0.7	1455	0-12" Crushed grey stone. 12-24" Dark brown clay with sand and gravel. Fill. Fine to coarse sand. Stiff. Moist. Sub angular	24	24	M (Hold)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID	B3513	Geologist	SP
Project No.	MN08326109102	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/13/21
Driller/helper(s)	Blake + Rich	MS/MSD	
Rig type	Geoprobe 7822 DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.5	1500	0-14" Light brown silty fine sand. Dense. Moist. 14-24" Dark brown silty fine to medium sand with crushed grey rock. Dense. Angular. Fill. Poorly sorted.	24	24	M	
2							2
	0.4	1505	0-5" SAA 5-15" Brown fine sand with angular gravel. Fill. Medium dense. Moist. Poorly sorted.	24	15	M (Hold)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B3514
Project No.: MN08326/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Blake + Rich
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/13/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.0	1440	0-15" Light brown silt, Fine sand, Dense. Moist. 15-19" Crushed grey rock	24	19	M	
2	0.5	1445	0-10" Crushed grey rock 10-24" Dark brown and grey sand, gravel with silt. Fill. Dense. Moist. Poorly sorted. Sub angular to angular	24	24	M (Hold)	2
4			EOB @ 4'				4
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3515
Project No.: MN0832G/09102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Blake + Rich
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/13/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.3	1430	~~0-15"~~ Light brown silty fine sand, Dense, Moist. 0-15" 15-24" Brown sandy gravel with silt. Fill. Dense, Poorly sorted. Sub angular. Moist.	24	24	M	
2	0.4	1435	0-5" SAA 5-16" Light brown to brown sandy gravel with silt. Fill. Poorly sorted. Angular to sub angular. Moist.	24	16	M Ctlold	2
4			FOB @ 4'				4
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3520
Project No.: MN083261 09102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Blake + Rich
Rig type: Geoprobe 7822 DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/13/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
		SP ~~1650~~					
2							2
	0.2	~~1655~~ 1650	0-24" Dark brown to dark grey sandy gravel w/ silt. Fill. Moist. Medium dense. Poorly sorted. Sub angular	24	24	M	
4							4
	0.3	1655	0-23' SAA	24	23	M (Hold)	
6							6
			EOB @ 6'				
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3508
Project No.: MN08326-10410n
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Blake + Rich
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/13/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.4	1610	0-7" Light brown silty fine sand. Moist. Dense 7-24" Dark brown to black fine to coarse sand with gravel. Fill. Sub rounded. Medium dense.	24	24	5	
2							2
	0.4	1615	0-24" Brown clay with gravel ~~sub~~ and sand. Fill. Poorly sorted. Stiff. Subrounded.	24	24	5 (Hold)	
4							4
6							6
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B3517
Project No.: MN0832G109/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Blake + Rich
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/14/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2	0.2	1200	0-19" Brown to light brown sandy gravel w/ silt. Dry. Fill. Poorly sorted. Dense. Fine to coarse sand. Sub angular	24	19	S, M	2
4	0.2	1205	0-24" SAA	24	24	S (Mdd)	4
6			EOB @ 6'				6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3499
Project No.: MN0832G1 09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Blake & Rich
Rig type: Geoprobe 7822DT

Geologist: SD
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/14/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.0	1140 1145	0-18" Dark brown silt w/ sand & gravel. Loose, Moist. Poorly sorted. Sub angular. Fine to coarse sand.	24	18	S (Hold)	
2	0.2	1150	0-17" Brown sandy gravel w/ silt. Fill. Poorly sorted. Moist. Sub angular. Dense. Fine to coarse sand,	24	17	S (Hold)	2
4	0.2	1155	0-24" SAA	24	24	S (Hold	4
6			EOB @ 6'				6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3498
Project No.: MN0632G109102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Blake
Rig type: Geoprobe 7822DT

Geologist: SD
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/14/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.2	1120 1125	0-19" Dark grey to black clay w/ sand + gravel. Fill. Moist. Poorly sorted. Medium dense. Fine to coarse sand. Sub angular	24	19	S (Hold)	
2	0.0	1130	0-17" Brown sandy gravel with silt. Fill. Moist. Sub rounded. Fine to coarse sand. Medium dense.	24	17	S (Hold)	2
4	0.0	1135	0-24" SAA	24	24	S (Hold)	4
6			EOB @ 6'				6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID	B3497	Geologist	SP
Project No.	MN08326/09162	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/14/21
Driller/helper(s)	Blake + Rich	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.1	1100 1105	0-17" Dark brown silt w/ sand + gravel. Moist. Dense. Poorly sorted, Subrounded. Fine to coarse sand 17-20" Brown clay, Plastic. Moist. Stiff.	24	20	Hdd S S(Hdd)	
2	0.2	1110	0-17" Brown + grey angular gravel with silt and sand. Medium dense. Fine to coarse sand. Fill. Dry. Poorly sorted.	24	17	S (Hdd)	2
4	0.3	1115	0-20" SAA	24	20	S (Hdd)	4
6			EOB @ 6'				6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID	B3496	Geologist	SP
Project No.	MN08326/09/02	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/14/21
Driller/helper(s)	Blake + Rich	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
		1040 ~~1045~~	0-10" Light brown silt with sand and trace gravel. Fine to coarse sand. Poorly sorted. Dense. Sub angular	24	22	P, ~~M~~ S (Hold)	
	0.1	1045	10-22" Dark brown gravel with silt + sand. Fill. Dry. Poorly sorted. Subrounded. Fine to coarse sand. Dense.				
2							2
	0.0	1050	0-23" SAA	24	23	P, S (Hold)	
4							4
	0.0	1055	0-17" Grey and brown angular gravel w/ silt and sand. Fill. Dry. Poorly sorted. Loose. Fine to coarse sand.	24	17	P, S (Hold)	
6							6
			EOB @ 6'				
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B3495
Project No.: MN05326-109102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Blake + Rich
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/14/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.2	1015 1020	0-20" Light brown to brown sandy gravel w/ clay. Poorly sorted. Moist. Sub rounded. Fine to coarse sand.	24	20	P (Hold) P (Hold)	
2							2
	0.0	1025	0-19" Dark brown and black sandy gravel with silt. Moist. Fill. Medium dense. Poorly sorted. Subangular. Fine to coarse sand.	24	19	P (Hold)	
4							4
	0.2	1030	0-16" Light grey to tan gravel with silt + sand. Poorly sorted. Loose. Sub angular. Fine to coarse sand.	24	16	P (Hold)	
6							6
			EoB @ 6'				
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID	B3494	Geologist	SP
Project No.	MN08326-109107	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/14/21
Driller/helper(s)	Blake + Rich	MS/MSD	
Rig type	Geoprobe 7822 DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
		955	0-9" Light brown silt. Dense. Moist.			P (Hold)	
	0.0	1000	9-21" Dark brown silt, sand w/ gravel. Fill. Poorly Sorted, Fine sand. Moist. Dense.	24	21	P (Hold)	
2							2
	0.0	1005	0-11" Dark grey to black coarse sand w/ gravel. Moist. Fill. Poorly sorted. Sub angular 11-20" Brown sandy silt w/ gravel. Fill. Dense, Moist. Poorly sorted. Sub rounded to sub angular	24	20	P (Hold)	
4							4
	0.0	1010	0-15" SAA	24	15	P (Hold)	
6							6
			EOB @ 6'		SP	P/(Hold)	
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID	B3523	Geologist	SP
Project No.	MN08326-109102	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/14/21
Driller/helper(s)	Blake + Rich	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8	0.0	945	0-6" Fine Sand, Moist, well sorted, Dense, Brown. 6-20" Dark brown sandy gravel, Fine to coarse sand. Fill. Dry. Sub angular. Poorly sorted.	24	20	M	8
10							10

BORING LOG

Project No. MN0832

B3523

Geosyntec consultants

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
10							10
	0.2	950	0-24" SAA	24	24	M (1+old)	
12							12
			EOB @ 12'				
14							14
16							16
18							18
20							20
22							22
24							24

BORING LOG

Geosyntec consultants

Boring ID: B3522

Project No.: MN08326-109162

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Blake + Rich

Rig type: Geoprobe 7822DT

Geologist: SP

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 1/14/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8	0.8	925	0-21'' Fine to coarse sand with gravel. Very dense. Angular to sub angular. Dry. Poorly sorted.	24	21	M	8
10							10

BORING LOG

Project No. MN0832

B3522

Geosyntec consultants

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
10	0.7	930	0-24" Fine to medium sand. Dense. Dry. Sub rounded. well sorted.	24	24	M (Hold)	10
12			EOB @ 12'				12
14							14
16							16
18							18
20							20
22							22
24							24

Geosyntec consultants

BORING LOG

Boring ID: B3554
Project No.: MN06326/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Royer + Rich
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water: 15'
Date: 1/20/21
MS/MSD: 05 10-12 (P,S)(M)
Duplicate: 12 8-10 (P,S)

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.5	920	0-2" Light brown well sorted fine sand. Dense. Moist. 2-7" Brown clay with silt. Very stiff. plastic 7-20" Black silty fine to coarse sand. Dense. Poorly sorted. Sub angular. Moist. Fill	24	20	P	
2	0.7	925	0-10" SAA 10-16" Brown sand, gravel with silt. Fill. Moist. Poorly sorted. Dense. Sub angular to subranded. Fine to coarse sand.	24	16	P	2
4	1.2	930	0-20" SAA	24	20	P	4
6	0.7	935	0-24" Light brown to brown gravel with sand. Fine to coarse sand. Sub angular. Poorly sorted. Medium dense. Moist.	24	24	P	6
8	0.1	940	0-24" SAA	24	24	P, V S, M EC	8
10							10

BORING LOG

Project No. MN0832

Geosyntec consultants

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
10	0.0	1110	0-21" Brown fine sand with well rounded gravel. Medium dense. Moist. Poorly sorted.	24	21	P, S V, M EC	10
12	0.0	1115	0-19" Light brown to brown fine to coarse sand with gravel. Sub angular. Moist. Poorly sorted.	24	19	P, S V, M EC	12
14	0.7	1120	0-12" Brown and light grey gravel with fine to coarse sand. Poorly sorted. Sub angular. Dense. Dry. 12-24" Brown sandy gravel. Fine to coarse sand. Poorly sorted. Sub angular to sub rounded. Dense. Wet.	24	24	P, S, M	14
16	0.3	1125	0-10" Brown subrounded gravel with fine to coarse sand and silt. Wet. Dense. Poorly sorted. 10-17" Brown fine sand with trace well rounded gravel. Saturated. Well sorted. Medium dense.	24	17	P, S V, M EC	16
18	0.8	1130	0-15" Grey well rounded gravel with coarse sand in brown mud. Loose. Well sorted. Wet.	24	15	P	18
20	0.8	1135	0-20" SAA.	24	20	P	20
22	1.6	1140	0-12" Brown fine sand w/ trace well rounded gravel. Wet. Well sorted. Dense. 12-24" Stiff grey clay. Plastic.	24	24	P (Hold)	22
24							24

EOB @ 24'
Clay aquitard encountered at 23' bgs. Final sample collected from 22-23 ft.

BORING LOG

Geosyntec consultants

Boring ID	B3264A	Geologist	SP
Project No.	MN08326/09/02	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/21/20
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7822 DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Project No. MN0832G B3264A

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
10							10
12							12
14							14
16	44.8	1140	0-12" Greyish brown well rounded gravel with fine to coarse sand. Wet. Loose. Moderately well sorted.	24	12	P V	16
18	0.9	1205	0-14" Brown well rounded gravel with fine to coarse sand. Wet. Very loose. Moderately well sorted.	24	14	P	18
20	1.4	1215	0-21" Brown well rounded gravel with coarse sand. wet. Very loose. Well sorted.	24	21	P	20
22	1.0	1225	0-21" Brown well rounded gravel with coarse sand and trace cobbles. Very loose. wet. Moderately well sorted.	24	21	P (Hold)	22
24							24

EOB @ 24'

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Geosyntec consultants

BORING LOG

Boring ID: B3503
Project No.: MN08326/09102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Roger + Rich
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/21/20
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.9	1020	0-11" Light brown silt with fine sand. Roots from 0-2". Dense. Moist. 11-17" crushed red brick. Fill. 17-23" crushed grey concrete and black silty fine sand. Fill. Dense. Angular. Poorly sorted.	24	23	S	
2	0.3	1025	0-15" Crushed red brick and crushed concrete with fine to medium black sand. Fill. Poorly sorted. Dry. Angular. 15-24" Light brown silty sand with gravel. Fill. Very dense. Dry. Sub angular. Fine to coarse sand. Poorly sorted.	24	24	S (Hold)	2
4			EOB @ 4'				4
6							6
8							8
10							10

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Attorney-Client Work Product

BORING LOG

Geosyntec consultants

Boring ID: B3266A

Project No.: MN0832G/09102

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Roger + Rich

Rig type: Geoprobe 7822DT

Geologist: SP

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water: 14'

Date: 1/21/20

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8							8
10							10

BORING LOG

B3266A

Project No. MN0832G

Geosyntec consultants

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
10	0.7	815	0-17" Brown and grey sandy gravel with silt. Fill. Moist. Poorly sorted. Loose. Fine to coarse sand. Sub angular.	24	17	P	10
12	0.0	—	0-17" SAA	24	17	-	12
14	0.0	—	0-12" Grey well rounded gravel with coarse and medium sand. Wet. Moderately well sorted. Loose.	24	12	WC	14
16	0.8	850	0-17" Brown and grey gravel with fine to coarse sand and trace cobbles. Poorly sorted. Wet. Loose. Sub rounded to rounded.	24	17	P WC	16
18	0.9	910	0-4" SAA 4-17" Brown fine sand. Saturated. Medium dense. well sorted.	24	17	P	18
20	0.0	935	0-19" Brown fine sand with well rounded trace gravel. Saturated. Medium dense. Moderately well sorted.	24	19	P	20
22	1.1	940	0-12" SAA 12-13" Stiff grey clay. Plastic.	24	13	P (Hold)	22
24							24

EOB @ 24'

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Attorney-Client Work Product

BORING LOG

Geosyntec consultants

Boring ID: B3454

Project No.: MN0832G/09/02

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Roger + Rich

Rig type: Geoprobe 7822DT

Geologist: SP

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 1/22/21 P,S,M

MS/MSD: 3 12-14

Duplicate: 8 10-12 P,S,M

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8							8
10							10

BORING LOG

Project No. MN0832G B3454

Geosyntec consultants

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
10	0.0	1220	0-13" Grey and light brown sand w/ gravel. Dry. Dense. Fine to coarse sand. Poorly sorted. Subangular.	24	13	P,S V,M EC	10
12	0.1	1245	0-13" Brown to dark brown fine to coarse sand w/ gravel. Dry. Poorly sorted. Sub rounded to sub angular. Medium dense.	24	13	P,S V,M EC	12
14	0.9	~~1446~~ SP 1445	0-14" Brown sand with gravel. Dry. Fine to Coarse sand. Loose. Sub rounded.	24	14	P,S M	14
16	22.0	1455	0-13" Brown gravel with coarse sand. Wet. Loose. Sub rounded. well sorted. Odor.	24	13	P,S V,M EC	16
18	108.1	1515	0-22" Grey well rounded gravel with coarse sand. well sorted. very loose. wet. Odor.	24	22	P V	18
20	13.7	1540	0-17" Brown fine sand with trace well rounded gravel, Saturated. Medium dense. well sorted.	24	17	P V	20
22	392.0	1555	0-8" Dark grey fine sand with trace well rounded gravel. Saturated, Medium dense. well sorted. Odor. 8-18" Grey clay. Plastic - Stiff	24	18	P (Hold) V	22
24							24

Final sample collected from 22-23 ft due to clay at ~~24'~~ 23' SP

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BORING LOG

Geosyntec consultants

Boring ID: B3265A
Project No.: MN08326/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Roger & Rich
Rig type: Geoprobe 7822 DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water: 14'
Date: 1/22/21
MS/MSD: 2 10-12 P, V, S, M, EC
Duplicate: 7 8-10 P, S, M

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.9	1000	0-11" Light brown to brown silt w/ fine sand. Dense. Moist. 11-24" Dark brown to black sand w/ trace gravel. Fine to coarse sand. Medium dense. Moist. Poorly sorted, sub rounded. Fill.	24	24	P	
2							2
	1.3	1005	0-16" Brown gravel w/ sand. Medium dense. Fill. Poorly sorted. Angular to sub angular. Fine to coarse sand. Dry. Black fine sand from 6-9".	24	16	P	
4							4
	1.6	1030	0-16" Brown and grey silty sand with gravel. Fill. Poorly sorted. Angular. Moist. Fine to coarse sand. Dense.	24	16	P	
6							6
	1.9	1035	0-21" SAA	24	21	P	
8							8
	0.0	1040	0-21" SAA	24	21	P, S V, M EC	
10							10

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BORING LOG

Project No. MN0832G B3265A

Geosyntec consultants

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
10	0.1	1045	0-22" Light brown sand with silt and gravel. Fill. Moist. Poorly sorted. Sub angular. Fine to coarse Sand.	24	22	P, V S, M EC	10
12	0.6	–	0-24" Light brown to brown gravel with silt and sand. Dry. Poorly sorted. Sub angular. Dense.	24	24	WC	12
14	0.0	1110	0-12" Brown gravel with medium to coarse sand. wet. Loose. Sub rounded, Moderately well sorted.	24	12	–	14
16	0.2	1205 ~~1120~~ SP	0-13" SAA.	24	13	P, S V, M EC	16
18	0.1	1125	0-12" Brown well rounded gravel with medium to Coarse sand. wet. Medium dense. Moderately well Sorted.	24	12	P, S V, M EC	18
20	0.9	1130	0-17" SAA	24	17	P	20
22	0.9	1135	0-16" SAA	24	16	P (Hold)	22
24							24

EOB @ 24'

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Attorney-Client Work Product

BORING LOG

Geosyntec consultants

Boring ID: B3493

Project No.: MN08326109102

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Roger + Rich

Rig type: Geoprobe 7822DT

Geologist: SP

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water: 14.5'

Date: 1/21/20

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8							8
10							10

BORING LOG

Project No. MN0832G

B3493

Geosyntec consultants

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
10	1.3	1615	0-21" Brown fine sand with gravel and coarse sand. Moist. Poorly sorted. Sub rounded.	24	21	P	10
12	0.4	1620	0-14" Brown and grey gravel with sand. Dense. Poorly sorted. Sub rounded. Fine to coarse sand. Moist.	24	14	P	12
14	0.6	1640	0-12" SAA. Wet at 6".	24	12	P	14
16	0.8	1645	0-13" Brown sub rounded to rounded gravel with medium to coarse sand. wet. Moderately well sorted, Loose.	24	13	P	16
18	0.1	(SP) ~~1650~~ 0820	0-12" Brown fine sand with well rounded gravel. Medium dense. wet. Moderately well sorted.	24	12	P	18
20	1.0	0840	0-18" SAA	24	18	P	20
22	0.5	0855	0-12" SAA	24	12	P (Hold)	22
24							24

EOB @ 24'

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Attorney-Client Work Product

Geosyntec consultants

BORING LOG

Boring ID: B3505

Project No.: MN0832G/09/02

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Roger + Rich

Rig type: Geoprobe 7822DT

Geologist: SP

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 1/23/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.1	855	0-9" Light brown silt with clay. Stiff. Moist. Roots 0-2" 9-21" Brown to dark brown sandy gravel with silt. Fill. Moist. Poorly sorted. Sub angular.	24	21	S	
2							2
	0.5	900	0-12" SAA	24	12	S (Hold)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3504
Project No.: MN08326/09102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Zach
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/23/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.3	905	0-8" Brown silt with clay. Dense. Moist. 8-16" Dark brown to black sand with silt and gravel. Dense. Moist. Fill. Poorly sorted. Sub angular.	24	(SP) 16 ~~2~~	S	
2	0.3	910	0-24" Brown and grey gravel with silt and sand. Fill. Dense. Sub angular. Poorly sorted. Moist. Crushed concrete at 5-6" and 15-21"	24	24	S (Hold)	2
4							4
6							6
8							8
10							10

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Geosyntec consultants

BORING LOG

Boring ID: B3625
Project No.: MN0632G109/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Zach
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/23/21
MS/MSD:
Duplicate: 17 (0.17-2) S

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.7	940	0-10" Dark brown silt w/ clay. Moist. Roots 0-2" 10-24" Dark brown to black sand w/ gravel and silt. Fine to coarse sand. Poorly sorted. Moist. Fill. Subangular.	24	24	S	
2							2
	1.3	945	0-24" Brown and grey clay with fine sand, very stiff. Moist. Odor.	24	24	S (Hold)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3057A
Project No.: MN0632G109102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Zach
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/23/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2	0.2	1000	0-16" Light brown to brown silt with clay and trace sand and gravel. Fill, Medium dense. Moist. Poorly sorted. Sub angular	24	16	S	2
4	0.2	1005	0-15" SAA	21	15	S (Hold)	4
6			EOB @ 6'				6
8							8
10							10

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Geosyntec consultants

BORING LOG

Boring ID: B13A
Project No.: MN0632G109 102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Zach
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/23/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2	0.2	1030	0-23" Brown to dark brown silty sand w/ trace gravel. Fill. Moist. Poorly sorted. sub angular. Fine to coarse sand.	24	23	S	2
4	0.1	1035	0-12" SAA	24	12	S (Hold)	4
6			EOB @ 6'				6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3628
Project No.: MN06326/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Zach
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/23/22
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.4	1040	0-9" Light brown silt w/ clay. Dense. Moist. Roots 0-2". 9-24" Dark brown and black sand with silt and gravel. Fill. Moist. Very dense. Poorly sorted. Sub angular. Fine to coarse sand.	24	24	S	
2	0.1	1045	0-14" Black to dark brown and brown fine to medium sand w/ silt. Dense. Poorly sorted. Fill. Moist.	24	14	S (Hdd)	2
4			EOB @ 4'				4
6							6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3071A

Project No.: MN0832G/09/02

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Rich + Zach

Rig type: Geoprobe 7822DT

Geologist: SP

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 1/23/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2	0.9	1055	0-13" Dark Brown to black gravel with sand. Dense Poorly Sorted. Sub angular. Fine to coarse Sand. Crushed brick at 9-10". Dry. 13-20" Brown clay with trace gravel. Stiff, Plastic, Moist.	24	20	S	2
4	0.3	1100	0-15" Brown clay with black sand from 4-8". Fine Sand. Stiff clay, plastic moist.	24	15	S (Hdd)	4
6			EOB @ 6'				6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3624
Project No.: MN0832G/09102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Zach
Rig type: Geoprobe 7822DT

Geologist: SD
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/23/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.1	1110	0-9" Brown silt with clay. Moist. Dense. 9-22" Dark brown and black sand with silt and gravel. Fill. Poorly sorted. Moist. Dense. Sub angular. Fine to coarse Sand.	24	22	P	
2	0.2	1115	0-21" Brown to light brown clay with sand and trace gravel. Stiff. Moist. Plastic Fill. Poorly sorted. Sub angular gravel Fine to medium sand.	24	21	P (Hold)	2
4			EOB @ 4'				4
6							6
8							8
10							10

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Attorney-Client Work Product

BORING LOG

Geosyntec consultants

Boring ID: B3455

Project No.: MN0832G/09/02

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Rich + Zach

Rig type: Geoprobe 7822DT

Geologist: SP

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water: 16'

Date: 1/23/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8							8
10							10

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BORING LOG

Project No. MN0832G B3455

Geosyntec consultants

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
10	0.6	1130	0-18" Brown sandy gravel. Dry. Loose. Fine to coarse Sand. Poorly sorted. Sub rounded to sub angular.	24	18	P	10
12	0.6	1145	0-12" SAA	24	12	P	12
14	0.5	1200	0-12" SAA	24	12	P	14
16	0.8	1220	0-7" Brown fine sand. wet. Medium dense. well sorted. 7-23" Brown well rounded gravel with medium and coarse sand. wet. Moderately well sorted. Loose.	24	23	P	16
18	0.4	1240	0-16" SAA	24	16	P	18
20	0.2	1440	0-16" SAA	24	16	P	20
22	0.0	1445	0-21" SAA	24	21	P (Hold)	22
24							24

EOB @ 24'

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BORING LOG

Geosyntec consultants

Boring ID: B3623
Project No.: MN08326/109107
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Zach
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/23/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.3	1120	0-9" Brown silt w/ clay. Moist. Dense. Roots 0-2". 9-22" Brown silt w/ clay, sand, and gravel. Fill. Poorly Sorted. Dense. Moist. Fine to coarse sand, Subangular	24	22	P	
2	0.2	1125	0-15" Light brown to brown silt with fine sand and trace gravel. Medium dense. Moist. Fill. Poorly sorted. Sub rounded.	24	15	P (Hold)	2
4			EOB @ 4'				4
6							6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3015A

Project No.: MN08326-109/02

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Rich + Zach

Rig type: Geoprobe 7822DT

Geologist: SP

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water: 16'

Date: 1/23/21

MS/MSD: 1 12-14 P,S,M,N,EC

Duplicate: 3 10-12 P,S,M,V,EC

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8							8
10							10

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BORING LOG

Project No. MN0832G B3015A

Geosyntec consultants

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
10	0.1	1500	0-24" light brown and grey sandy gravel with silt. Fill. Dry. Poorly sorted. Sub angular. Medium dense. Fine to coarse sand.	24	24	P, S V, M EC	10
12	0.0	1505	0-14" SAA	24	19	P, S V, M EC	12
14	0.6	1530	0-13" Brownie fine to coarse sand with gravel. Moist. Dense. Poorly sorted. Fill. Sub angular to sub rounded.	24	13	P	14
16	0.1	1535	0-13" Grey well rounded gravel with coarse sand. Wet. Loose. Well sorted.	24	13	P, S V, M EC	16
18	0.2	1540	0-14" Brown fine sand with trace well rounded gravel. Saturated. Well sorted. Medium dense.	24	14	P	18
20	0.5	1555	0-16" SAA	24	16	P	20
22	0.1	1615	0-17" Grey well rounded gravel with coarse sand. Wet. Loose. Well sorted.	24	17	P (Hold)	22
24							24

EOB @ 24'

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BORING LOG

Geosyntec consultants

Boring ID	B3501	Geologist	SP
Project No.	MN083261 09102	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/25/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.0	920	0-10" Light brown silt with clay. Stiff. Roots 0-2" 10-15" Brown to dark brown silty sand with trace gravel. Fill. Poorly sorted. Moist. Sub rounded. Fine to coarse sand. Dense.	24	15	P	
2							2
	0.0	925	0-21" Light brown to brown silty sand with gravel. Fill. Moist. Poorly sorted. Sub angular. Fine to coarse sand. Dense.	24	21	P (Hold)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID	B3605	Geologist	SP
Project No.	MN08326/09102	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/25/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.0	940	0-9" Light brown silt with clay. Dense. Moist. Roots 0-2" 9-20' Brown silt with gravel and sand. Moist. Fill. Poorly sorted. Sub angular. Medium dense. Fine to coarse sand.	24	20	P	
2	0.2	945	0-12" Brown clay with subrounded trace gravel. Fill. Moist. Plastic. Medium stiff. Poorly sorted.	24	12	P (Hold)	2
4			EOB @ 4'				4
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID	B3500	Geologist	SP
Project No.	MN08326109103	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/25/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7822 DT	Duplicate	10 0.17-2 P

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.0	950	0-9" Light brown silt with clay. Dense. Moist. Roots 0-2" 9-22" Dark brown clay with gravel. Fill. Moist. Medium Stiff. Plastic. Sub rounded.	24	22	P	
2							2
	0.0	955	0-22" SAA. Light to dark brown	24	22	P (Hold)	
4							4
			EOD @ 4'				
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3604
Project No.: MN08326/09102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/25/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.1	1000	0-9" Light brown silt with clay. Dense. Moist. Roots 0-2" 9-16" Brown clay with gravel. Fill. Poorly sorted. Dense. Sub rounded. Moist.	24	16	P	
2							2
	0.2	1005	0-16" Brown and grey silty sand with gravel. Fill. Medium dense. Poorly sorted. Moist. Sub angular. Fine to coarse sand.	24	16	P (Hold)	
4			EOB @ 4'				4
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3037A
Project No.: MN0832G-109102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/25/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2	0.0	1020	0-19" Brown to black silty sand with gravel. Fill. Moist. Poorly sorted, sub angular. Fine to coarse sand.	24	19	P	2
4	0.2	1025	0-8" SAA 8-18" Light grey crushed concrete sampled as fine sand and gravel. Dry.	24	18	P (Hold)	4
6			EOB @ 6'				6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID	B3521	Geologist	SP
Project No.	MN08326 / 09102	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/25/21
Driller/helper(s)	Rich & Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
2							2
4							4
6	0.3	1040	0-12" Brown to light brown clay, moist. Plastic, medium stiff. Trace rounded gravel. Poorly sorted. Fill	24	12	P	6
8	0.3	1045	0-15" SAA	24	15	P (Hold)	8
10							10

EOB @ 10'

BORING LOG

Geosyntec consultants

Boring ID	B3603	Geologist	SP
Project No.	MN08326/09102	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/25/21
Driller/helper(s)	Rich + Roger	MS/MSD	6 0.17 - 2
Rig type	Geoprobe 7822	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.2	1100	0-9" Light brown silt with clay. Moist. Dense. Roots 0-2" 9-20" Brown gravel with silt and sand. Fill. Poorly Sorted. Sub angular. Moist. Dense. Fine to course sand.	24	20	P	
2							2
	0.2	1105	0-20" Light brown clay with trace gravel. Fill. Plastic. Moist. Medium stiff. Poorly sorted. well rounded gravel.	24	20	P (HOLD)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3608
Project No.: MN0832G 109102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/25/21
MS/MSD: 7 0.17-2
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.3	1110	0-9" Light brown silt with clay. Dense. Moist. Roots 0-2" 9-21" Brown to black silty fine sand with gravel. Fill. Poorly sorted. Medium dense. Moist. Fine to coarse sand. Crushed concrete 13-15".	24	21	P	
2	0.1	1115	0-21" Brown to light brown clay with trace well rounded gravel. Fill. Poorly sorted. Plastic. Medium stiff. Moist.	24	21	P (Hold)	2
4							4
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID	B3606	Geologist	SP
Project No.	MN0832G / 09/02	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/25/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	14 0.17-2

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.4	1130	0-6" Brown silt with clay. Dense. Moist. Roots 0-2" 6-20" Dark brown silty clay with sand and gravel. Fill. Moist. Poorly sorted. Stiff. Sub angular. Fine to coarse sand.	24	20	P	
2	0.3	1135	0-23" Light brown clay with trace well rounded gravel. Medium stiff. Moist. Fill. Poorly sorted. Plastic.	24	23	P (12add)	2
4			EOB @ 4'				4
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID	B3607	Geologist	SP
Project No.	MN0832 G109103	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/25/21
Driller/helper(s)	Rich & Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.6	1150	0-11" Light brown silt with clay, Dense. Moist. Roots 0-2" 11-21" Brown clay with silt and trace well rounded gravel, Fill. Poorly sorted. Moist. Medium stiff.	24	21	P	
2							2
	0.3	1155	0-22" SAA	24	22	P (Hold)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B3609
Project No.: MN0832G109102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/25/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.4	1200	0-12" Light brown silt with clay. Dense. Moist. Roots 0-2". 12-23" Brown silty sand with gravel. Fill. Moist. Poorly Sorted. Dense. Fine to coarse sand. Sub angular.	24	23	P	
2							2
	0.5	1205	0-24" Brown clay with trace well rounded gravel. Fill. Poorly sorted. Medium stiff. Moist.	24	24	P (Hold)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3611
Project No.: MN08326 / 09102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822 DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/25/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.7	1215	0-13" Light brown silt with clay. Dense. Moist. Roots 0-2" 13-24" Brown silt with fine to coarse sand and trace gravel. Fill. Poorly sorted. Moist. Medium dense. Subangular.	24	24	P	
2							2
	0.2	1220	0-16" SAA	24	16	P (Hold)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3617
Project No.: MN08326/09102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/25/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.3	1240	0-9" Light brown silt with clay. Roots 0-2". Dense. Moist. 9-23" Brown silty gravel with sand. Dense. Fill. Moist. Poorly sorted. Sub angular. Fine to coarse sand.	24	23	P	
2							2
	0.1	1245	0-20" SAA	24	20	P (Hold)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B3610
Project No.: MN0832G109102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/25/21
MS/MSD:
Duplicate: 15 0.17-2

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.1	1250	0-10" Light brown silt with clay. Moist. Dense. Roots 0-2" 10-21" Dark brown silt with sand and gravel. Fill. Moist. Poorly sorted. Dense. Sub angular. Fine to coarse sand.	24	21	P	
2							2
	0.0	1255	0-8" SAA 8-19" Brown clay with trace well rounded gravel. Moist. Plastic. Medium stiff. Fill. Poorly sorted.	24	19	P (Hold)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3516
Project No.: MN0832 G109/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/25/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
		1					
2	0.2	1300	0-17" Brown and black sand with silt. Fine to coarse Sand. Dry. Medium dense, Fill. Poorly sorted. Subangular.	24	17	M	2
4	0.3	1305	0-18" Brown fine sand with silt. Loose, well sorted. Moist. Fill.	24	18	M (Hold)	4
6			EOB @ 6'				6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3618
Project No.: MN08326/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SD
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/25/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.1	1310	0-9" Light brown silt with clay. Dense. Moist. Roots 0-2" 9-20" Brown silty sand with gravel. Fill. Moist. Poorly Sorted. Sub angular. Dense. Fine to coarse sand.	24	20	P	
2							2
	0.3	1315	0-5" Black fine to coarse sand. Dry. Very loose. Sub rand. well sorted 5-17" Brown clay with trace well rounded gravel. Moist. Plastic. Medium stiff. Fill. Poorly sorted.	24	17	P (Hold)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

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Attorney-Client Work Product

Geosyntec consultants

BORING LOG

Boring ID: B3502
Project No.: MN08326-109102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SD
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/25/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.2	1350	0-8" Light brown silt with clay, Moist. Dense. Roots 0-2" 8-20" Brown silty sand with gravel, Fill. Poorly sorted, Dense. Moist. Sub angular. Fine to course sand	24	20	P, M	
2							2
	0.4	1355	0-17" SAA	24	17	P, M (Hold)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

Privilaged and Confidential
Attorney-Client Work Product

BORING LOG

Geosyntec consultants

Boring ID	B3619	Geologist	SP
Project No.	MN0832G 109103	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/25/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.4	1400	0-17" Brown silt with clay. Dense. Moist. Roots 0-2" 17-24" Brown silty sand with gravel. Fill. Poorly sorted. Moist. Sub angular. Medium dense. Fine to coarse sand.	24	24	P	
2							2
	0.2	1405	0-20" SAA	24	20	P (HOLD)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

Privilaged and Confidential
Attorney-Client Work Product

Geosyntec consultants

BORING LOG

Boring ID: B3631

Project No.: MN0832G/09162

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Rich + Roger

Rig type: Geoprobe 7822DT

Geologist: SP

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 1/25/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
2	0.4	1410	0-23" Brown and black medium sand with silt and trace gravel. Fill. Poorly sorted. Dry. Loose. Sub rounded.	24	23	M	2
4	0.4	1415	0-20" Brown clay with trace well rounded gravel. Moist. Medium stiff. Fill. Poorly sorted. Plastic	24	20	M (Hold)	4
6			EOB @ 6'				6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID	B3620	Geologist	SP
Project No.	MN0832G/09/02	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/25/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	16 0.17-2

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.3	1450	0-10" Light brown silt with clay. Dense. Moist. Roots 0-2" 10-24" Black fine to medium sand. Dry. Fill. Well sorted. Loose. Sub angular.	24	24	P, S	
2	0.7	1455	0-9" Dark brown to black clay. Medium stiff. Moist. Fill. Plastic 9-15" Brown and grey gravel with silt and sand. Dry. Fill. Poorly sorted. Fine to coarse sand. Dense. Subrounded.	24	15	P, S (Hold)	2
4			EOB @ 4				4
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID	B3622	Geologist	SP
Project No.	MN0832G/09103	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/25/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.2	1500	0-12" Light brown silt with clay. Dense. Moist. Roots 0-2". 12-21" Dark brown to black silty sand with gravel. Fill. Dense. Poorly sorted. Moist. Sub rounded. Fine to Coarse sand.	24	21	P	
2							2
	0.1	1505	0-9" SAA. 9-22" Brown clay. Moist. Plastic. Medium stiff.	24	22	P (Hold)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B3612
Project No.: MN08326/09162
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/25/21
MS/MSD: ~~B-0.17-2~~
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.3	1510	0-9" Light brown silt with clay. Moist. Dense. Roots 0-2" 9-19" Brown clay with angular gravel. Fill. Poorly sorted. Stiff. Plastic. Moist.	24	19	P	
2							2
	0.0	1515	0-17" Brown and grey silty gravel with sand. Fill. Poorly sorted. Moist. Sub angular. Fine to coarse sand, very dense.	24	17	P (Hold)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B3621
Project No.: MN0832G / 09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/25/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.4	1520	0-7" Light brown silt with clay. Moist. Dense. Roots 0-2" 7-17" Brown silt with sand and gravel. Fill. Dry. Poorly sorted. Fine to coarse sand. Dense. Sub angular. 17-24" Black fine to coarse sand with gravel. Fill. Dry. Poorly sorted. Fine to coarse sand. Medium dense. Sub angular	24	24	P	
2							2
	0.2	1525	0-4" SAA 4-12" Light brown silty sand with gravel. Fill. Poorly sorted. Moist. Fine to coarse sand. Sub rounded. Medium dense. 12-24" Brown clay. Stiff. Plastic. Moist.	24	24	P (Hold)	
4			EOB @ 4'				4
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID	B3261A	Geologist	SP
Project No.	MN08326/09102	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/25/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
						-	
2	0.9	1530	0-9" Black Fine sand. Medium dense. Moist. Fill. Well sorted 9-20" Brown clay with well rounded gravel. Fill. Poorly sorted, Moist. Stiff. Plastic.	24	20	S	2
4	0.4	1535	0-20" Brown silty gravel with sand, Fill. Poorly sorted, Medium dense. Sub rounded to sub angular. Fine to Coarse sand, Moist.	24	20	S (Hold)	4
6			EOB @ 6'				6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3615
Project No.: MN0832 G/09 107
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/25/21
MS/MSD: 9 0.17-2
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.7	1605	0-9" Light brown silt with clay. Dense, Moist. Roots 0-2" 0-19" Brown clay with trace gravel. Fill. Poorly sorted, Moist. Stiff. Plastic. Angular.	24	19	S	
2	0.0	1610	0-14" Brown sandy gravel. Dry. Fill. Loose. Poorly Sorted. Sub angular.	24	14	S (1-1old)	2
4			EOB @ 4'				4
6							6
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B3616
Project No.: MN08326/09/03
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/25/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.0	1615	0-9" Light brown silt with clay. Dense. Moist. Roots 0-2" 9-21" Brown to black sand with silt and trace gravel. Fill. Poorly sorted. Medium dense. Sub angular. Moist. Fine to coarse sand.	24	21	S	
2							2
	0.1	1620	0-15" SAA	24	15	S (Hold)	
4			EOB @ 4'				4
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID	B3614	Geologist	SP
Project No.	MN0832G/09/02	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/25/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.1	1625	0-9" Light brown silt with clay. Moist. Dense. Roots 0-2" 9-24" Brown to dark brown clay with sand and gravel. Fill. Poorly sorted. Stiff. Plastic. Sub angular. Fine to Coarse sand.	24	24	S	
2							2
	0.0	1630	0-16" SAA.	24	16	S (Hdd)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3001A
Project No.: MN0832G 109 102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich & Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/25/12
MS/MSD:
Duplicate: 2 2-4

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2	1.6	1640	0-17" Dark brown clay with sand and trace gravel. Fill. Poorly sorted. Medium stiff. Moist. Plastic. Subangular gravel, Fine to coarse sand.	24	17	P, S M, V EC	2
4	0.0	1645	0-24" Brown fine sand with gravel. Dry. Fill. Poorly sorted. Medium dense. Sub angular.	24	24	S (Hdd)	4
6			EOB @ 6'				6
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B3067A
Project No.: MN08326/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/25/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
2	0.2	1650	0-20" Brown to black sand with silt and gravel. Fill. Moist. Poorly sorted. Sub angular. Fine to coarse sand. Dense.	24	20	S	2
4	0.0	1655	0-20" SAA	24	20	S (Hdd)	4
6			EOB @ 6'				6
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B3613
Project No.: MN0832G/09102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/25/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.0	1700	0-9" Brown silt with clay. Moist. Dense. Roots 0-2" 9-21" Brown silty sand with gravel. Fill. Poorly Sorted. Moist. Fine to ~~sand,~~ Coarse sand. Subangular	24	21	S	
2			0-18" SAA				2
	0.2	1705		24	18	S (Hold)	
4			EOB @ 4'				4
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID	B3635	Geologist	SP
Project No.	MN08326/09102	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/26/21
Driller/helper(s)	Rich & Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
4							4
6	0.1	815	0-17" Brown silty sand with gravel. Fill. Poorly sorted. Moist. Medium dense. Fine to coarse sand. Sub angular.	24	17	M	6
8	0.3	820	0-22" SAA	24	22	M (Hold)	8
10							10

EOB @ 10'

BORING LOG

Geosyntec consultants

Boring ID: B3634
Project No.: MN0832G/09102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/26/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
2							2
4							4
6	0.1	835	0-17" Brown silty sand with gravel. Fill. Poorly sorted moist. Dense. Sub angular. Fine to coarse sand. Crushed concrete 4-5".	24	17	M	6
8	0.4	840	0-21" SAA	24	21	M (Hold)	8
10							10

EOB @ 10'

BORING LOG

Geosyntec consultants

Boring ID	B3636	Geologist	SP
Project No.	MN08326/09102	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/26/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
2							2
4							4
6	0.0	900	0-5" Crushed grey concrete 5-17" Brown silty sand with gravel. Fill. Poorly sorted. Moist. Dense. Fine to coarse sand. Subangular.	24	17	M	6
8	0.6	905	0-22" SAA	24	22	M (Hold)	8
10							10

EOB @ 10'

BORING LOG

Geosyntec consultants

Boring ID: B3638
Project No.: MN0832G109102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SD
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/26/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8	0.2	920	0-22" Brown silty sand with gravel. Fill. Poorly sorted, Dry. Fine to coarse sand, Medium dense. Sub angular to angular.	24	22	M	8
10							10

BORING LOG

Geosyntec consultants

Project No. MN0832 B3638

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
10			0-23' SAA				10
	0.4	925		24	23	M (Hold)	
12							12
			EOB @ 12'				
14							14
16							16
18							18
20							20
22							22
24							24

BORING LOG

Geosyntec consultants

Boring ID	B3247A	Geologist	SP
Project No.	MN06326/09/02	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/26/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8							8
10							10

BORING LOG

Project No. MN0832 B3247A

Geosyntec consultants

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
10	0.1	950	0-24" Brown silty sand with gravel. Fill. Poorly sorted, subangular. Very dense. Fine to coarse sand.	24	24	M	10
12	0.2	955	0-24" SAA	24	24	M (Hold)	12
14			EOB @ 14'				14
16							16
18							18
20							20
22							22
24							24

BORING LOG

Geosyntec consultants

Boring ID: B3181A
Project No.: MN0632G1 09102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822 DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/26/21
MS/MSD:
Duplicate: 5 2.4 P,S,M

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2	0.0	1045	0-24" Dark brown silt with sand and gravel. Moist. Fill. Poorly sorted. Fine to coarse sand. Dense. Subangular.	24	24	P, S M, V EC	2
4	0.2	1050	0-18" Brown sandy gravel with silt. Fill. Dense. Poorly sorted. Fine to coarse sand. Sub angular	24	18	S (Hold)	4
6			EOB @ 6'				6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3637
Project No.: MN08326/09102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/26/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8	0.1	1115	0-21" Brown silty sand with gravel. Fill. Poorly sorted. Dry. Fine to coarse sand. Subangular.	24	21	M	8
10							10

BORING LOG

Project No. MN0832

B3637

Geosyntec consultants

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
10	0.1	1120	0-24" SAA	24	24	M (Hold)	10
12			EOB @ 12'				12
14							14
16							16
18							18
20							20
22							22
24							24

Geosyntec consultants

BORING LOG

Boring ID: B3484A
Project No.: MN08326-109/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/26/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
2	0.0	1130	0-15" Dark brown to brown clay with sand. Fill. Poorly sorted. Stiff. Plastic. Moist. Fine to coarse sand.	24	15	S	2
4	0.2	1135	0-19" Brown fine sand with coarse sand and gravel. Moist. Fill. Poorly sorted. Dense. Sub rounded.	24	19	S (HCBD)	4
6			EOB @ 6'				6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3224A
Project No.: MN0832G109102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/26/21
MS/MSD:
Duplicate: 6 2-4

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
2	0.2	1150	0-20" Dark brown to black Sand with silt and gravel. Fill. Poorly sorted. Dry. Sub angular. Fine to coarse sand.	24	20	S,T	2
4	0.0	1155	0-8" SAA 8-24" Brown silty sand with gravel. Fill. Moist. Poorly sorted. Fine to coarse sand. Dense. Banded to ~~coarse~~ subbanded (SP)	24	24	S,T (Hold)	4
6			EOB @ 6'				6
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B3491A
Project No.: MN08326/09102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SD
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/26/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.0	1210	0-8" Light brown silt with clay, Moist. Dense Roots 0-2" 8-17" Brown and grey sandy gravel with silt. Fill. Poorly Sorted, Angular to sub angular. Moist. Fine to coarse Sand. Dense.	24	17	P	
2							2
	0.0	1215	0-17" SAA	24	17	P (Hold)	
4							4
	0.0	1220	0-19" Brown silty sand with gravel. Fill. Poorly sorted. Dry. Dense. Fine to coarse sand, Subangular.	24	19	P (Hold)	
6							6
			EOB @ 6'				
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B3496
Project No.: MN08326/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/26/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.1	1250	0-16" Light brown silt with clay. Dense. Moist 16-23" Dark brown silty sand. Fill. Fine to coarse sand. Poorly sorted. Dense. Sub rounded.	24	23	P, S V, M EC, T	
2	0.2	1300	0-18" Dark brown to black silty sand with gravel. Moist. Fill. Poorly sorted. Medium dense. Fine to coarse sand.	(8) ~~15~~ 24	18	P, S V, M EC (Hold)	2
4			EOB @ 4'				4
6							6
8							8
10							10

Note: B3496 0-0.1' and 4-6 previously collected.

BORING LOG

Geosyntec consultants

Boring ID: B3495
Project No.: MN0832G/09/03
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/26/21
MS/MSD: 11 0.17-2
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.0	1325	0-16" Light brown silt with clay. Dense. Moist. 16-20" Brown sandy gravel. Fill. Dry. Poorly sorted. Sub angular. Fine to coarse sand. Dense	24	20	PT	
2			EOB @ 2				2
4							4
6							6
8							8
10							10

Note: 2-4 and 4-6 previously collected.

BORING LOG

Geosyntec consultants

Boring ID: B3494
Project No.: MN0832G/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/25/21
MS/MSD:
Duplicate: 19 017-2 P, V, M, EC

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.0	1350	0-16" Brown silt with clay. Dense. Moist	24	16	P, S V, M EC	
2	0.1	1355	0-21" Brown silty sand with gravel. Fill. Poorly sorted, Fine to coarse sand, Dense. Subangular. Moist.	24	21	P, S V, M EC (Hold)	2
4			EOB @ 4'				4
6							6
8							8
10							10

Note: 0-0.17 and 4-6 previously collected.

BORING LOG

Geosyntec consultants

Boring ID: B3260A
Project No.: MN08326/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/26/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
4	0.3	1410	0-14" Brown silty sand with gravel. Fill. Moist. Poorly sorted. Sub rounded. Dense. Fine to coarse sand.	24	14	S	4
6	0.1	1415	0-14" SAA	24	19	S (Hold)	6
8			EOB @ 8'				8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3490A
Project No.: MN08326/09163
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SD
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/26/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
2	0.0	1430	0-18" Black to dark brown silty sand with gravel. Fill. Poorly sorted. Moist. Dense. Sub rounded. Fine to coarse Sand.	24	18	5	2
4	0.1	1435	0-17" SAA	24	17	5 (Hold)	4
6			EOB @ 6'				6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID	B3497	Geologist	SP
Project No.	MN0832G109/07	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/26/21
Driller/helper(s)	Rich & Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.1	1450	0-19" Dark brown to black silt with sand. Moist. Fine to medium sand. Medium dense. Subrounded.	24	19	P,S V,M EC,T	
2	0.0	1455	0-17" Brown silty sand with gravel. Fill. Dry. Poorly sorted. Dense. Fine to coarse sand. Subrounded.	21	17	P,S V,M EC	2
4	0.1	SP ~~1450~~ 1500	0-15" SAA	24	15	P,S V,M EC (Hold)	4
6			EOB @ 6'				6
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B3499
Project No.: MN0832G/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/26/21
MS/MSD: 4 0-2 S,T
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.0	1520	0-18" Dark brown silt with clay. Medium dense, Moist.	24	18	S,T	
2							2
	0.0	1525	0-21" Brown silt with sand. Wet. Fill. Poorly sorted, Fine to medium sand. Medium dense.	24	21	S,T	
4							4
	0.0	1530	0-15" SAA	24	15	S,T (Hold)	
6			EOB @ 6'				6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3498
Project No.: MN0832G/ 04107
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/26/25
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.1	1540	0-22" Dark brown silt with clay. Moist. Dense.	24	22	S,T	
2	0.0	1545	0-19" Brown silty sand with gravel. Dense. Moist. Fill. Poorly sorted. Sub rounded. Fine to coarse sand.	24	19	S,T	2
4	0.0	1550	0-16" SAA	24	16	S,T (Hold)	4
6			EOB @ 6				6
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B3507
Project No.: MN053261 04107
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/26/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.0	1615	0-10" Light brown silt with clay. Moist. Dense. Roots 0-2". 10-20" Brown silty sand with gravel. Fill. Poorly sorted. Subrounded. Fine to coarse sand. Dense. Moist.	24	20	S	
2	0.0	1620	0-23" Brown and black sand with silt and trace gravel. Fill. Poorly sorted. Dense. Subrounded. Fine to coarse Sand.	24	23	S (Hdd)	2
4			EOB @ 4'				4
6							6
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B3544
Project No.: MN08326/09/03
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/26/21
MS/MSD:
Duplicate: 13 0.17-2 P,S

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.0	1635	0-3" Light brown silt with clay. Dense. Moist 3-15" Brown silty sand with gravel. Fill. Poorly sorted, Moist. Dense. Fine to coarse sand. Sub rounded,	24	15	P,S V,M EC	
2							2
	0.1	1640	0-15" SAA	24	15	P,S V,M EC	
4							4
	0.0	1645	0-20" Brown and grey gravel with sand. Fill, Dry. Poorly sorted. ~~St~~ Fine to coarse sand. Subrounded.	24	20	P,S V,M EC (Hold)	
6			EOB @ 6'				6
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B3518
Project No.: MN08326109107
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: Sp
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/26/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
2	0.0	1700	0-24" Brown silty sand with gravel. Fill. Poorly sorted. Dense. Fine to coarse sand. Subrounded.	24	24	S	2
4	0.0	1705	0-16" SAA	24	16	S (Hold)	4
6							6
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B34S1A
Project No.: MN08326/09162
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich & Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date:
MS/MSD:
Duplicate: 9 2-4 P,S

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
2	0.0	1710	0-19" Brown silty sand with gravel. Fill. Poorly sorted, moist. Sub rounded fine to coarse sand. Dense.	24	19	P,S M,V EC	2
4	0.0	1715	0-20" SAA	24	20	S (Hold)	4
6			EOB @ 6'				6
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B3182A

Project No.: MN08326/09102

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Rich + Roger

Rig type: Geoprobe 7822DT

Geologist: SP

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 1/26/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
	0.0	1720	0-16" Brown silty sand with gravel. Fill. Poorly sorted. Moist. Dense. Fine to coarse sand. Subangular	24	16	S	
4							4
	0.0	1725	0-18" SAA	24	18	S (Hold)	
6							6
			EOB @ 6'				
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3098A
Project No.: MN08326-109102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich & Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/27/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
2	0.1	815	0-19" Brown to dark brown silty sand with gravel. Fill. Poorly sorted. Moist. Dense. Fine to coarse sand. Sub rounded to sub angular.	24	19	S	2
4	0.0	820	0-16" Brown to dark brown clay with sand and gravel. Fill. Poorly sorted. Stiff. Plastic. Fine to coarse sand. Subrounded.	24	16	S (field)	4
6			EOB @ 6'				6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID	B3633	Geologist	SP
Project No.	MN08320-109102	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/27/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2	0.0	825	0-19" Brown to dark brown silt with well rounded gravel. Fill. Poorly sorted. Very dense, moist.	24	19	M	2
4	0.1	830	0-14" SAA 14-23" Brown clay. Stiff. Plastic. Moist.	24	23	M (Hold)	4
6			EOB @ 6'				6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3632
Project No.: MN0832 6109 102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/27/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2	0.0	835	0-18" Brown silt with sand and gravel. Fill. Poorly sorted. Very dense. Fine to coarse sand. Sub angular.	24	18	M	2
4	0.0	840	0-20" Brown clay with well rounded gravel. Fill. Poorly sorted. Stiff. Plastic. Moist.	24	20	M (Hold)	4
6			EOB @ 6'				6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID	B3630	Geologist	SP
Project No.	MN0832G/09/07	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/27/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (Inches)	Analytes	Depth (ft)
2	0.0	915	0-23" Brown to black silty sand with gravel. FM. Poorly Sorted. Dry to moist. Dense. Subrounded. Fine to coarse Sand.	24	23	S	2
4	0.0	920	0-12" SAA 12-21" Black silt with fine sand, very dense. Moist.	24	21	S (Hold)	4
6			EOB @ 6'				6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID	B3304A	Geologist	SP
Project No.	MN0832G109/02	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/27/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
4	0.0	930	0-17" Dark brown to brown clay with silt and fine sand, stiff. Semi plastic moist.	24	17	S	4
6	0.5	935	0-23" Brown silty sand with gravel. Fill. Poorly sorted. Dense. Fine to coarse sand, sub rounded.	24	23	S (Hold)	6
8			EOB @ 8				8
10							10

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BORING LOG

Geosyntec consultants

Boring ID	B3643	Geologist	SP
Project No.	MN06326/09102	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/27/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.5	955	0-13" Light brown silt with fine sand, Dense. Moist. 13-20" Dark brown silty sand with gravel. Fill. Poorly sorted, Very dense. Fine to coarse sand, Sub rounded.	24	20	S	
2							2
	0.7	1000	0-18" SAA	24	18	S (Hold)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3073A
Project No.: MN08326/09102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SD
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/27/21
MS/MSD:
Duplicate: 4 2-4 P,S,M

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2	0.0	1015	0-24" Brown to dark brown and black silty sand with gravel. Fill. Poorly sorted. Moist. Fine to coarse sand. Dense. Sub rounded.	24	24	P,S M,V EC	2
4	1.0	1020	0-18" SAA	24	18	S (Hold)	4
6			EOB @ 6'				6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID	B3061A	Geologist	SD
Project No.	MN08326 109102	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/27/21
Driller/helper(s)	Rich & Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2	0.3	1040	0-22" Dark brown to brown silt with sand and trace gravel. Fill. Poorly Sorted. very Dense Moist. Fine to coarse sand. Crushed grey stone 6-11"	24	22	5	2
4	0.9	1045	0-12" SAA 12-24" Brown clay with silt. Stiff. Plastic. Moist.	24	24	5 (Hold)	4
6			EOB @ 6'				6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3639

Project No.: MN08326-109162

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Rich + Roger

Rig type: Geoprobe 7822DT

Geologist: SP

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 1/27/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	1.1	1050	0-9" Grey gravel. Fill. Angular. Very loose. 9-15" Brown silt and clay. Dense. Moist. 15-24" Brown silty sand with gravel. Fill. Poorly sorted. Fine to coarse sand. Subrounded. Dense. Moist.	24	24	5	
2	0.0	1055	0-10" SAA 10-22" Brown clay. Stiff. Plastic. Moist.	24	22	5 (Add)	2
4			EOB @ 4'				4
6							6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3519
Project No.: MN0832G1 09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/27/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2	0.7	1115	0-21" Brown silty sand with gravel. Fill. Poorly sorted, Moist. Medium dense. Subangular. Fine to coarse sand.	24	21	S	2
4	1.9	1125	0-19" Brown clay with sand and gravel. Fill. Poorly sorted. Moist. Stiff. Fine to coarse sand, Subangular.	24	19	S (Hold)	4
6			EOB @ 6'				6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3626

Project No.: MW08326-/09162

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Rich + Roger

Rig type: Geoprobe 7822DT

Geologist: SD

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 1/27/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.7	1125	0-7" Light brown silt with clay. Dense. Moist. Roots 0-1" 7-20" Brown to dark brown silty sand with gravel. Fill. Poorly sorted. Moist. Dense. Fine to coarse sand. Subangular.	24	20	S	
2							2
	0.8	1130	0-18" SAA	24	18	S (Hold)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3286A
Project No.: MN08326-109/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/27/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
2							2
4	0.9	1140	0-18" Brown silty sand with gravel. Fill. Poorly sorted. Dense, Sub angular. Fine to coarse sand. Moist.	24	18	S	4
6	0.8	1145	0-23" SAA	24	23	S (Hold)	6
8			EOB @ 8'				8
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3268A
Project No.: MN0832G/09102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/27/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.4	1545	0-12" Light brown silt with clay. Dense. Moist. Roots 0-1" 12-24" Brown sandy gravel with silt. Fill. Poorly sorted. Moist. Fine to coarse sand. Dense. Sub rounded crushed brick 12-17"	24	24	T	
2							2
	0.3	1550	0-17" SAA	24	17	T (Hdd)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3651
Project No.: MN08326-109109
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/27/21
MS/MSD:
Duplicate: 21 0.17-2

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.7	1600	0-15" Light brown silt with clay. Moist. Dense. Roots 0-1" 15-22" Brown silty sand with gravel. Fill. Moist. Poorly sorted. Fine to coarse sand. Dense. Sub rounded.	24	22	T	
2							2
	0.7	1605	0-17" Brown clay with silt and trace sand and gravel. Fill. Poorly sorted. Stiff. Plastic Moist. Subrounded. Fine to coarse sand.	24	17"	T (Held)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3650
Project No.: MN08326/02/09
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/27/21
MS/MSD:
Duplicate: 20 017-2

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	1.2	1615	0-10" Light brown clay with silt. Dense, Moist. Roots 0-2". 10-19" Brown silt with fine sand and trace gravel. Fill. Poorly sorted. Moist. Dense, Sub rounded.	24	19	T	
2							2
	0.9	1620	0-15" SAA	24	15	T (Hold)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID	B3042A	Geologist	SD
Project No.	MN08326/09102	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/27/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2	0.9	1630	0-20" Brown silt with fine to medium sand. Dense, moist.	24	20	T	2
4			EOB @ 4'				4
6							6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID	B3517	Geologist	SP
Project No.	MN08326/09/02	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/27/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	11 0.17-2

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.3	1640	0-8" Light brown silt with clay. Dense. Moist. 8-21" Brown silty sand with gravel. Fill. Poorly Sorted. Dense. Fine to coarse sand. Moist. Subrounded	24	21	T	
2			EOB @ 2'				2
4							4
6							6
8							8
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3618
Project No.: MN08326/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7822DT

Geologist: SD
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/25/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.1	1310	0-9" Light brown silt with clay. Dense. Moist. Roots 0-2" 9-20" Brown silty sand with gravel. Fill. Moist. Poorly Sorted, Sub angular. Dense. Fine to coarse sand.	24	20	P	
2							2
	0.3	1315	0-5" Black fine to coarse sand. Dry. Very loose. Subraind. well sorted 5-17" Brown clay with trace well rounded gravel. Moist. Plastic. Medium stiff. Fill. Poorly sorted.	24	17	P (Hold)	
4							4
			EOB @ 4'				
6							6
8							8
10							10

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Geosyntec consultants

BORING LOG

Boring ID: B3049A
Project No.: MN0832G/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7220DT

Geologist: CB
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/28/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
		~~FTB~~		~~24~~	~~24~~		
2							2
	2.3	1715	0-20" Grey, Sandy Gravel. Dry. Dense Fine to Coarse gravel, sub-rounded. Poorly sorted 20-24" Brown, Gravelly Sand. Moist, Dense, f. to med. Sand. Poorly graded.	24	24	T	
4			EOB @ 4'				4
6							6
8							8
10							10

Geosyntec consultants

BORING LOG

Boring ID: B3657

Project No.: MN ~~8003~~ 0832G109102

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Rich + Roger

Rig type: Geoprobe 7220DT

Geologist: CB

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 1/28/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	2.4	1705	0-18" Brown, Silty Sand, Moist, Dense, fine to coarse Sand. Poorly Sorted. 18-24" Dark gray. Gravelly Sand. Moist. Dense. Medium to Coarse Sand, Poorly Sorted.	24	24	T	
2	2.7	1710	0-4" Same as above 4-21" Brown, Gravelly Sand. Moist. Dense, fine to coarse Sand. Poorly Sorted.	24	21	T (Hold)	2
4			EOB @ 4'				4
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID	B3322A	Geologist	CB
Project No.	MN0832G109002	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/28/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7320DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	3.1	1655	0-12" Brown, Silty Sand, with trace fine gravel. f. to med. Sand. Moist. Dense. Moderately well sorted. 12-16" Concrete fragments 16-24" Brown. Gravelly Sand. moist. dense. f. to med. Sand. Poorly graded	24	24	T	
2	2.4	1700	0-24" Brown, Gravelly Sand. Moist. Dense fine to coarse Sand. Poorly Sorted.	24	24	T (Hold)	2
4			EOB @ 4'				4
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Boring ID: B 3658
Project No.: MN0832G109102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: GeoProbe 7220DT

Geologist: CB
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/28/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	1.1	1620	0-24" Brown to dark brown, Silty Sand with trace gravel. Dense, fine to medium grained Sand. Dry. Well sorted.	24	24	T	
2							2
	1.9	1625	0-16" Brown, gravelly Sand. Dry. Dense. fine to med. Sand. Well sorted. 16-~~18~~" Concrete fragments 18-24" Brown, gravelly Sand. Dry. Dense, f. to med. Sand. Well sorted.	24	24"	T (Hold)	
4			EOB @ 4'				4
6							6
8							8
10							10

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BORING LOG

Boring ID: B3667
Project No.: MN0832G109102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7720DT

Geologist: CB
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 11/28/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
		1555	~~0-14" Brown, Gravelly Sand. Moist. Dense, fine to coarse Sand. Well rounded gravel, poorly sorted.~~	~~24~~	~~18~~		
2							2
4							4
6							6
8							8
10							10

BORING LOG

Project No. MN0832G

B3667

Geosyntec consultants

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
10	2.7	1555	0-14" Brown. Gravelly Sand. Moist. Dense. Fine to Coarse ~~Ground~~. Well rounded gravel. Poorly sorted 14-18" Concrete fragments.	24	18	T(Hold)	10
12	2.3	1600	0-16" Brown, sandy gravel. Dry. Loose. well rounded, Medium to Coarse gravel. Poorly Sorted.	24	16	T	12
14	3.0	1605	0-14" Concrete fragments 14-24" Brown to grey, gravelly Sand, wet, Dense, well rounded, medium to coarse Sand. Poorly sorted	24	24	T(Hold)	14
16			EOB @ 16'				16
18							18
20							20
22							22
24							24

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Geosyntec consultants

BORING LOG

Boring ID: B 3669

Project No.: MN08326 109/02

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Rich + Roger

Rig type: Geoprobe 7220DT

Geologist: CB

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 1/28/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8							8
10							10

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BORING LOG

Geosyntec consultants

Project No. MN0832G B3669

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
10	1.5	1520	~~0-1~~ 0-12" Brown, Sandy Gravel, Dense, dry, well rounded. Poorly Sorted	24	12"	T(Hold)	10
12	2.0	1525	0-16" Concrete fragments.	24	16	T	12
14	2.8	1530	0-7" Brown, Sandy Gravel, Dense, wet, sub-rounded. well sorted. 7-15" Concrete fragments	24	15	T(Hold)	14
16							16
18							18
20							20
22							22
24							24

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BORING LOG

Geosyntec consultants

Boring ID: B572A

Project No.: MN0832G 109102

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Rich + Roger

Rig type: Geoprobe 7220DT

Geologist: CB

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 1/28/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8							8
10							10

BORING LOG

Project No. MN0832G

BS72A

Geosyntec consultants

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
10							10
12							12
14							14
16	2.6	1510	0-13" Grey. Sandy Gravel. Wet. Dense, Well rounded. Well sorted.	24	13	P	16
18	3.3	1515	0-13" Same as above.	24	13	P(Hold)	18
20							20
22							22
24							24

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BORING LOG

Geosyntec consultants

Boring ID	B3600	Geologist	CB
Project No.	MN0832G109102	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/28/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Project No. MN0832G B3600

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
10			~~0-14" Grey. Sandy Gravel. Wet. Dense, Well~~				10
		~~1455~~	~~rounded. Poorly sorted~~ (CB)				
12							12
14							14
16							16
	5.7	1455	0-14" Grey. Sandy Gravel, Wet. Dense, Well rounded. Poorly Sorted.	24	14"	P	
18							18
	3.2	1500	0-8" Grey. Sandy Gravel, wet. Dense, sub angular. Poorly sorted. 8-19" Brown. Sandy Gravel, wet. Dense, well rounded. Poorly sorted.	24	19	P(Hold)	
20							20
22							22
24							24

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Geosyntec consultants

BORING LOG

Boring ID: B3668

Project No.: MN0832G109102

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Rich • Roger

Rig type: Geoprobe 7822DT

Geologist: CB

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 1/28/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8							8
10							10

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BORING LOG

Project No. MN0832G

B3668

Geosyntec consultants

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
10	2.0	1425	0-12" Brown, Gravelly Sand, moist, medium dense. Medium to coarse Sand, poorly sorted.	24	12	T(Hold)	10
12	4.4	1430	0-8" Brown Gravelly SAnd, moist, Dense, Medium to Coarse Sand, poorly sorted. 8-10" white, crushed concrete. 10-24" Brown to grey. Sandy Gravel. moist. Medium to coarse gravel. Sub rounded. Well sorted.	24	24	T	12
14	5.4	1435	0-16" Grey. Sandy Gravel, wet, Dense. Well rounded. Well sorted.	24	16	T(Hold)	14
16			EOB @ 16'				16
18							18
20							20
22							22
24							24

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Geosyntec consultants

BORING LOG

Boring ID: B3601

Project No.: MN08326109102

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Rich + Roger

Rig type: Geoprobe 7822DT

Geologist: SP

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 1/28/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8							8
10							10

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BORING LOG

Project No. MN0832G

B3601

Geosyntec consultants

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
10							10
12							12
14							14
16	40	1350	0-17" Grey sandy Gravel. wet. Moderately well sorted. Medium to coarse sand. Sub rounded. Dense.	24	17	P	16
18	3.4	1355	0-15" Grey Sandy Gravel. wet. Poorly sorted. Medium to coarse sand. Well rounded. Dense. With some Cobbles.	24	15	P (Hold)	18
20							20
22							22
24							24

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Geosyntec consultants

BORING LOG

Boring ID: B3595

Project No.: WN0832G/09/02

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Rich + Roger

Rig type: Geoprobe 7200DT

Geologist: CB

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 2/4/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (Inches)	Analytes	Depth (ft)
	00	1635	0-6" Asphalt 6-16" Brown. Gravelly Sand. Dense. Dry. Fine sand and gravel. Well sorted 16-17" Concrete fragments 17"-22" Brown. Gravelly Sand. Dense. Dry. Fine Sand. Poorly Sorted.	24	22		
10							10

BORING LOG

Geosyntec consultants

Boring ID: B3661
Project No.: MN08326/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7220DT

Geologist: CB
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 2/4/21
MS/MSD: MS/MSD -14
Duplicate: (12-14)T

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
10	0.6	1700	0-2" Brown. Gravelly Sand. Moist. Dense. Fine to medium sand. Poorly sorted. 2-18" Sandy Gravel. Moist. Loose. Medium to coarse gravel. Well rounded. Poorly sorted	24	18	T	
12	1.1	MS/MSD ~~1705~~	0-18" Same as above with cobbles	24	18	T	
14	0.9	1710	0-10" Brown. Clay. ~~Dense~~ Soft. Wet. 10-14 Brown. Sandy Gravel. Wet. Medium dense. Medium well rounded gravel. Well sorted.	24	14	T	
16			EOB @ 16'				
18							
20							

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BORING LOG

Geosyntec consultants

Boring ID: B3629
Project No.: MN0832G/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7200DT

Geologist: CB
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 2/2/21
MS/MSD: ~~MS/MSD-18~~ ~~(4-6) S~~
Duplicate:
MS/MSD - 18 (4-6) S

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	5.4	MS/MSD 1355	0-8" Brown. Sandy Gravel. Dry. Dense. Well rounded Fine to Coarse Gravel. Poorly sorted. 8-16" Brown. Silty Clay. Very stiff. Moist. 16-24" Brown. Gravelly Sand. Dry. Medium dense. Medium to coarse sand. Poorly sorted. Staining	24	24	S	
	3.8	~~1400~~ 1400	0-16" Same as above. No Staining. 16-20" Same as above. With Staining	24	20	S (Hold)	
			0-16" SAA. No Staining	24	16	S	
10							10

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BORING LOG

Geosyntec consultants

Boring ID	B 3640	Geologist	CB
Project No.	MN0832G/09/02	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	2/2/21
Driller/helper(s)	Rich + Roger	MS/MSD	[redacted]
Rig type	Geoprobe 7220DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	3.5	1120	0-4" Brown. Gravelly Sand. Dense. Dry. Medium to coarse sand. Poorly sorted. 4-14" Brown. Sandy Clay: Hard. Dry. 14-21" Brown. Gravelly Sand. Dense. Dry fine to Coarse Sand. Poorly sorted. Staining.	24	21	S	
	3.2	1135	0-4" Same as above.	24	24	S(Hold)	
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3274A

Project No.: MN08326/09/02

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Rich + Roger

Rig type: Geoprobe 7220DT

Geologist: CB

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 2/2/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	2.3	1035	0-6" Brown. Silty Sand. Dense. Moist. Fine Sand. Well sorted. 6-8" Dark Brown. Gravelly Sand. Dense. Dry. Fine Sand Well sorted. 8-11" Concrete fragments 11-21" Brown to Black. Gravelly Sand. Moist. fine Sand. Well sorted. Staining	24	21	T	
	2.5	1050	0-6" Same as above. 6-11" Same as above. No Staining 11-18" Grayish Brown. Silt. Hard. Moist. trace Sand. 18-24 Brown. Sandy Silt. Wet. Soft.	24	24	T(Add)	
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3645
Project No.: MN08B2/6/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7220DT

Geologist: CB
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 2/2/21
MS/MSD:
Duplicate: Dup-1 (0.17-2) P,S,M,V,EC

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.6	1510	0-23" Brown. Gravelly Sand. Loose. Dry. Fine to Coarse Sand. Well rounded gravel. Poorly sorted	24	23	P,S,M V,EC	
	2.8	1540	0-22" Same as above.	24	22	M(Hold)	
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3664
Project No.: MN0832G/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7220 DT

Geologist: CB
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 2/2/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
10	5.0	1430	0-5" Sandy Gravel. Wet. Medium Dense. Fine to coarse gravel. Well rounded. Poorly sorted. 5-12" Concrete fragments 12-20" Sandy Gravel. Dry. Medium Dense. Fine to Coarse gravel. well rounded. Poorly sorted.	24	20	T(Hold)	
12	1.4	1440	0-15" Same as above	24	15	T	
14	1.9	1450	0-14" Same as above. Moist	24	14	T(Hold)	
16			EOB @ 16'				
18							
20							10

BORING LOG

Geosyntec consultants

Boring ID: B3575
Project No.: MN08326/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7220DT

Geologist: CB
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 2/2/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	2.0	1550	0-5" Brown. Sandy Silt. Stiff. Dry 5-12" Brown. Gravelly Sand. Dense. Dry. Fine to Coarse Sand. Poorly ~~Graded~~ Sorted. 12-19" Same as above with Staining	24	19	V	
	2.1	1600	0-4" Same as above 4-10" Brown. Sandy Gravel. Dense. ~~Wet~~ Moist. Well rounded. Poorly Sorted. 10-21" Brown, Clayey Sand with gravel. Stiff. Wet.	24	21	V	
	1.4	1610	0-12" Same as above 12-18" Brown. ~~Sandy Gravel~~. Dense, ~~Wet~~ Moist. Well rounded. ~~Poorly~~ graded.	24	18	V	
	1.6	1620	0-15" Same as above.	24	15	V	
	1.8	1630	0-14" Same as above	24	14	V	

10 10

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BORING LOG

Project No. MN0832G B3575

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Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	1.1	1640	0-15" Same as above	24	15	V	
	2.1	1650	0-24" Same as above	24	24	V	
	1.7	1700	0-15" Same as above. Wet	24	15	V	

Geosyntec consultants

BORING LOG

Boring ID: G 3666
Project No.: MN08326/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Robert Roger
Rig type: Geoprobe 7720DT

Geologist: CB
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 2/1/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
10	0.7	1350	0-13" Brown, Gravelly sand with some clay. Dense. wet. Med. to Coarse Sand. Poorly sorted.	24	13	T (Hold)	
12	1.1	1400	0-15" Same as above.	24	15	T	
14	2.0	1410	0-13" Brown, Sandy Gravel. Loose, Wet. Med. to Coarse gravel. Well rounded. Poorly sorted.	24	13	T (Hold)	
16			EOB @ 16'				
20							10

BORING LOG

Geosyntec consultants

Boring ID	B3659	Geologist	CB
Project No.	MN0832G/09/02	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/29/21
Driller/helper(s)	Rich & Roger	MS/MSD	
Rig type	Geoprobe 7720DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8							8
10							10

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BORING LOG

Project No. MN0832G B3659

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Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
10	1.3	1110	0-16" Brown, Gravelly Sand. Moist. Dense. fine to med. Sand. Poorly sorted.	24	16	T(Hold)	10
12	1.9	1120	0-17" Same as above, wet.	24	17	T	12
14	1.6	1140	0-13" Same as above.	24	13	T(Hold)	14
16			EOB @ 16'				16
18							18
20							20
22							22
24							24

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Geosyntec consultants

BORING LOG

Boring ID: B3662

Project No.: MN0832G/09/02

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Rich + Roger

Rig type: Geoprobe 7220DT

Geologist: CB

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 1/29/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8							8
10							10

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BORING LOG

Project No. MN0832G B3662

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Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
10	1.4	1155	0-8" Brown, Sandy Gravel. Moist. Dense. Well rounded. Poorly sorted. 8-14" Same as above, wet.	24	14	T (Hold)	10
12	0.6	1205	0-24" Brown, Gravelly Sand with cobbles. Medium Dense Medium to Coarse Sand. Poorly sorted.	24	24	T	12
14	0.9	1330	0-12" Brown. Sandy Gravel. Moist. Medium Dense. well rounded. Poorly sorted. 12-22" Brown. Sand with gravel. Moist. Medium Dense. Medium Sand. Well sorted	24	22	T (Hold)	14
16							16
18							18
20							20
22							22
24							24

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BORING LOG

Boring ID: B-3648
Project No.: MN08326/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Richie Roger
Rig type: Geoprobe 7220DT

Geologist: CB
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/29/21
MS/MSD:
Duplicate: MS/MSD-08 (017-2) P

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	1.5	1420	0.17 - 8" Concrete/Asphalt 8-22 Brown. Gravelly Sand. Moist. Dense, Medium Sand. Poorly Sorted 22-24" Black and Brown Sand with coarse gravel fine Sand. Well sorted.	24	24	P	
		1430	0 - 16" Concrete fragments with sand and gravel 16-24" Brown Gravelly Sand. Dry. Dense. f. to med. Sand. Poorly sorted.	24	24	P (Hold)	
			EOB @ 4'				
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3C49
Project No.: MN08326/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7220DT

Geologist: CB
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/29/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.5	1450	0-5" Asphalt 5-22" Brown. Gravelly Sand. Dry. Dense. Med. to Coarse Sand. Medium Gravel. Poorly sorted. 22-24" Black Sand with gravel. Dry. Dense. fine to medium Sand. Well sorted.	24	24	P	
	1.0	1500	0-8" Asphalt/Concrete fragments 8-17" Brown. Gravelly Sand. Moist. Dense. Fine sand and gravel. Well sorted. 17-24" Brown. Silty Sand. Moist to wet. Dense. Fine Sand. Well sorted.	24	24	P (HCl)	
10							10

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BORING LOG

Geosyntec consultants

Boring ID: NE Sidewall S1A
Project No.: MW08B2G/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rich + Roger
Rig type: Geoprobe 7220 DT

Geologist: CB
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/29/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	1.3	1520	0-6" Concrete fragments 6-10" Brown. Gravelly Sand. Moist. V. dense. f. to med. Sand Poorly sorted. 10-12" White Concrete fragments 12-18" Brown. Gravelly Sand. wet. V. dense. f to m. Sand. Well sorted	24	18	P, S, M, V, EC	
	0.3	1530	0-8" Brown Sandy Gravel. Dry. Loose Fine to med. gravel, rounded. Poorly sorted. 8-12": Black and Brown Sand with gravel. Loose Fine to coarse. Poorly sorted. 12-22" concrete fragments.	24	22	P(HOLD)	
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B 3646

Project No.: MN0832G/09/02

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Kirk Roger

Rig type: Geoprobe 7720DT

Geologist: CB

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 1/29/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	1.1	1555	0-22" Brown Gravelly Sand, Dry. Dense Fine to Coarse. Poorly sorted	24	22	M	
	1.4	1600	0-15" Same as above with cobbles	24	15	M (Add)	
			EOB @ 4'				
10							10

Geosyntec consultants

BORING LOG

Boring ID: B 3644
Project No.: MN0882G/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): A + R
Rig type: Geoprobe 7720DT

Geologist: CB
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 11-29/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	1635	1.2	0-8 Asphalt 8-14 Brown Sandy Gravel. Dry. Dense. Well rounded. Well sorted 14-18": Brown, Gravelly Sand. Dry. Dense. Fine. Poorly sorted.	24	18	M	
	1640	1.4	0-10". Concrete frags. 10-22" Brown, Gravelly Sand. Dry. Dense. Fine to coarse. Poorly sorted.	24	22	P, S M, V T, EC	
			EOB @ 4'				

10 10

BORING LOG

Geosyntec consultants

Boring ID	B36-0	Geologist	D
Project No.	MN0832G/09/02	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/29/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7720DT	Duplicate	DUP-26.(12-14)T

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8							8
10							10

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BORING LOG

Project No. MN0832G B 3660

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Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
10	1.2	1025	0-12" Brown, Gravelly Sand. Wet. Dense. Med. to coarse Sand. Sub Rounded gravel. Moderately well sorted.	24	12	T (Hold)	10
12	1.0	Pup-26 ↓ 1050	0-15" Same as above.	24	15	T	12
14	1.2	1040	0-17" Same as above	24	17	T (Hold)	14
16			EOB @ 16'				16
18							18
20							20
22							22
24							24

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BORING LOG

Geosyntec consultants

Boring ID: B3782-A
Project No.: MN0822G/09/02
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Rick Roger
Rig type: Geoprobe 7220DT

Geologist: CB
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 1/29/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
2							2
4	0.4	0950	0-12" Brown, Gravelly Sand. Moist. Dense. Medium to coarse Sand. Well rounded gravel. Poorly sorted. 12-20" Brown, Clayey Sand. Moist to wet, dense, fine Sand. Well sorted.	24	20	S	4
6	1.1	0955	0-14" Brown, Gravelly Sand. Moist. Dense, med to coarse Sand. Well rounded gravel. Poorly sorted.	24	14	S(Hole)	6
8			EOB @ 8'				8
10							10

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BORING LOG

Geosyntec consultants

Boring ID	B3670	Geologist	CB
Project No.	MN 08326/004/02	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	1/29/21
Driller/helper(s)	Rich + Roger	MS/MSD	
Rig type	Geoprobe 7220DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
2							2
4							4
6							6
8							8
10							10

BORING LOG

Geosyntec consultants

Project No. MN0832G

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
10	1.4	0905	0-16" Concrete fragments	24	16"	T (Hold)	10
12	1.2	0910	0-10" Concrete fragments 16-22" Brown, Gravelly Sand. Moist, Dense, Med. to Coarse Sand. Poorly sorted.	24	22	T (Hold)	12
14	1.5	0915	0-17" Same as above, wet	24	17	T (Hold)	14
16			EOB @ 16'				16
18							18
20							20
22							22
24							24

Geosyntec consultants

BORING LOG

Boring ID: B3647

Project No.: NN08326/69/02

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): R + R

Rig type: Geoprobe 7220DT

Geologist: CB

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 1/29/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.2	1655	0-8 Concrete fragments 8-14" Brown to dark Brown, Sand with medium Gravel. Medium to Coars Sand Poorly Sorted. 14-18 Same as above. Light Brown.	24	18"	M	
	0.0	1700	0-8 Concrete fragments 8-20" Brown, Gravelly Sand. Dry. Very Dense fine to med. Sand. Poorly Sorted	24	20	M(Hold)	
10							10

BORING LOG

MW-48

Geosyntec consultants

Boring ID	MW-~~52~~ 48 (KK)	Geologist	K Kimmey
Project No	MN0832G	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia	~~15~~ 6.5"
Location	Elmira, NY	Depth to Water	14.5
Drilling Co.	Cascade	Date	1/22-1/23
Driller/helper(s)	Frank and Marshall	MS/MSD	N/A
Rig type	Sonic	Duplicate	N/A

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0		dark brown silt with gravel and cobbles, loose more sand toward bottom of run. moist poorly sorted, loose	5	4		
5	0		dark brown sand and gravel, cobbles toward bottom of run, moist, loose, poorly sorted	~~10~~ 5	5		
10 ~~15~~	0		fine sand with gravel and cobbles, moist, poorly sorted w table at 14.5'	5	3		
15			dark brown wet sand				
~~5~~ 17.5	0		sand and subrounded gravel, mostly gravel at end of run	5	5		
20			SAA, auger clogging, limited recovery	~~10~~ 10	2		
30			last 1.5-2' fell out of the auger dark gray clay throughout run	5	2.5		
35		0	clay at ~~30~~ 28 KK				10

29
+ 2
31
(26)

set well at 31
+ 2
+ 1
35

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BORING LOG

Boring ID: MW-49
Project No.:
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Frank Marshall
Rig type: Sonic

Geologist: A. Jennings
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water: 16
Date: 2/5/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.0	815	High organics, sandy silt w/ rounded gravel and cobbles, crumbly texture poorly sorted	5	4		
5	0.0		Sandy silt w/ rounded gravel and cobbles transitions to silty sand w/ rounded gravel, loose, poorly sorted	5	5		2
10	0.0		Sandy silt w/ rounded gravel and cobbles poorly sorted	5	2.5		4
15	0.0		Water table at 16 ft bgs Sandy silt w/ rounded gravel transitions to silty sand with rounded cobbles at WT	5	5		6
20	0.0		Silty sand with rounded gravel, silty clay at end of run	5	3.5		8
25							10

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BORING LOG

Project No. MN0832G

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Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
10	0.0		Clay aquitard @ 2.6 ft Sandy gravel transitions to gray high plasticity clay	5	6		10
30	0.0		Stiff gray high plasticity clay	5	6		12
35							14
16							16
18							18
20							20
22							22
24							24

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BORING LOG MW-50

addl notes: lost recovery in 20-25' push. changed drill bit and will push to 30' (1040)

Geosyntec consultants

Boring ID	MW-50
Project No.	MN08526
Project Name	Former Sperry Remington-North
Location	Elmira, NY
Drilling Co.	Cascade
Driller/helper(s)	Frank + Marshall
Rig type	Sonic
Geologist	K. Kimmelly
Drilling Method	Direct Push
Borehole Dia	~~1.5"~~ 6.5
Depth to Water	18
Date	1/21/21
MS/MSD	N/A
Duplicate	N/A

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
2	0		dark brown silty sand with organics, moist, loose, ~~poo~~ well sorted	5	2.5		
	0		sand, dark brown with gravel, loose, poorly sorted				
5	0		sand with silt and gravel, dark brown, moist, loose, becoming more gravelly at end of run, cobbles present	5	2.5		
10	0		dark brown sand with some silt and ~~sand~~ gravel, cobbles. Fine sand near end of run, moist	10	5		
			water near end of run, est. 17-18' bgs				
20	0		dark brown fine sand, saturated, cobbles above transition to clay, rounded	10	5		
30			gray stiff clay at ~ 28' bgs				
35			same clay as above	5	5		

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BORING LOG

Geosyntec consultants

Boring ID	MW-51
Project No	MN0832G
Project Name	Former Sperry Remington North
Location	Elmira, NY
Drilling Co	Cascade
Driller/helper(s)	Frank + Marshall
Rig type	sonic

Geologist	K. Kimmey
Drilling Method	Direct Push
Borehole Dia	6.5"
Depth to Water	15
Date	1/20/21
MS/MSD	N/A
Duplicate	N/A

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analysis	Depth (ft)
25	0		dark brown to black silt with gravel and trace sand and organics, some cobbles, moist, loose to medium dense, poorly sorted	60	30		
5							
5-6	0.4		Clay with gravel and sand. dark brown gravelly sand, loose, fine to coarse, dry to moist. Poorly ~~graded~~ sorted.	4.5 5	4.5		
10			concrete				
15	0		dark brown sandy gravel with silt. Rounded and subrounded gravel, loose with some cobbles	10	8		
			g.w. at 15				
			SAA				
20							
25	0		dark gray clay, high plasticity, medium stiff	5	4.5		
30	0		SAA, layer sand with gravel clay at 23'	5	4.5		
10							10

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BORING LOG

Reference adjacent boring B3554 for lithology from 0-24 feet bgs

Geosyntec consultants

Boring ID	MW-52	Geologist	SP
Project No.	MN06326 109102	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	15'
Drilling Co.	Cascade	Date	1/20/21
Driller/helper(s)	Roger + Rich	MS/MSD	
Rig type	Geoprobe 7822DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
24			0-48" Grey stiff clay, Plastic.	60	48		
24			Setting MW-52 from 15-25 ft bgs.				
10							10

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BORING LOG

Geosyntec consultants

Boring ID: B3554
Project No.: MN08326/04102
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Royer + Rich
Rig type: Geoprobe 7822DT

Geologist: SP
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water: 15'
Date: 1/20/21
MS/MSD: 05 10-12 (P,S,M)
Duplicate: 12 8-10 (P,S)

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.5	920	0-2" Light brown well sorted fine sand. Dense. Moist. 2-7" Brown clay with silt. Very stiff. plastic 7-20" Black silty fine to coarse sand, Dense. Poorly sorted. Sub angular. Moist. Fill	24	20	P	
2							2
	0.7	925	0-10" SAA 10-16" Brown sand, gravel with silt. Fill. Moist. Poorly sorted. Dense. Sub angular to subrounded, Fine to coarse sand,	24	16	P	
4							4
	1.2	930	0-20" SAA	24	20	P	
6							6
	0.7	935	0-24" Light brown to brown gravel with sand. Fine to coarse sand. Sub angular. Poorly sorted, Medium dense. Moist.	24	24	P	
8							8
	0.1	940	0-24" SAA	24	24	P, V S, M EC	
10							10

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BORING LOG

Project No. MN0832

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Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
10	0.0	1110	0-21" Brown fine sand with well rounded gravel. Medium dense. Moist. Poorly sorted.	24	21	P, S V, M EC	10
12	0.0	1115	0-19" Light brown to brown fine to coarse sand with gravel. Sub angular. Moist. Poorly sorted.	24	19	P, S V, M EC	12
14	0.7	1120	0-12" Brown and light grey gravel with fine to coarse sand. Poorly sorted. Sub angular. Dense. Dry. 12-24" Brown sandy gravel. Fine to coarse sand. Poorly sorted. Sub angular to sub rounded. Dense. Wet.	24	24	P, S, M	14
16	0.3	1125	0-10" Brown subrounded gravel with fine to coarse sand and silt. Wet. Dense. Poorly sorted. 10-17" Brown fine sand with trace well rounded gravel. Saturated. Well sorted. Medium dense.	24	17	P, S V, M EC	16
18	0.8	1130	0-16" Grey well rounded gravel with coarse sand in brown mud. Loose. Well sorted. Wet.	24	15	P	18
20	0.8	1135	0-20" SAA.	24	20	P	20
22	1.6	1140	0-12" Brown fine sand w/ trace well rounded gravel. Wet. Well sorted. Dense. 12-24" Stiff grey clay. Plastic.	24	24	P (Hold)	22
24							24

EOB @ 24'
Clay aquitard encountered at 23' bgs. Final sample collected from 22-23 ft.

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Geosyntec consultants

BORING LOG

Boring ID: MW-53

Project No.:

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Frank, Marshall

Rig type: Sonic

Geologist: A. Jennings

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water: 15

Date: 2/5/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.0		High organics sandy silt w/ rounded cobbles, fragments of coal. silt w/ clay at end of run. Poorly sorted	5	3		
5	0.0		Silt w/ clay transitions to sandy silt w/ rounded gravel and cobbles. Loose, poorly sorted. Concrete at end of run	5	5		2
10	0.0		Silty sand w/ rounded gravel, poorly sorted. Rounded cobbles @ end of run	5	5		4
15	0.0		Water table @ 15ft bgs Silty sand w/ rounded gravel and cobbles	5	2.5		6
20	0.0		Coarse sand w/ rounded gravel and cobbles, well sorted, High plasticity clay @ end of run. Clay @ 24ft bgs	5	5		8
25							10

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BORING LOG

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Project No. MN0832G

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
10	0.0		Stiff gray high plasticity clay	5	6		10
30							12
14							14
16							16
18							18
20							20
22							22
24							24

Geosyntec consultants

BORING LOG

Boring ID: MW-54

Project No.:

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Frank, Marshal

Rig type: Sonic

Geologist: A. Jennings

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water: 15

Date: 2/4/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0	815	High organics, sandy silt w/ rounded gravel. Fragments of brick. poorly sorted	5	2.5		
5	0		Sandy silt w/ rounded cobbles and gravel Loose, poorly sorted, lense of clay at end of run	5	4		2
10	0		Silty sand w/ rounded gravel and cobbles Loose, poorly sorted. Angular gravel at end of run	5	5		4
15	0.0		Water table at 15 ft bgs Saturated silty sand w/ rounded gravel and cobbles, coarse sand w/ gravel at end of run	5	4		6
20	0		Rounded gravel and sand, transition to Sandy silt w/ rounded cobbles, coarse sand w/ rounded gravel at end of run, well sorted	5	4		8
25							10

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BORING LOG

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Project No. MN0832G

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
10							10
	0		Clay aquitard at 26 ft bgs Rounded gravel & course sand, Transition to gray high plasticity clay	5	6		
30							12
14							14
16							16
18							18
20							20
22							22
24							24

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BORING LOG

Boring ID	MW-55	Geologist	A. Jennings
Project No.		Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	16 ft bgs
Drilling Co.	Cascade	Date	2/3/21
Driller/helper(s)	Frank	MS/MSD	
Rig type	Sonic	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0		High organics, sandy silt w/ rounded gravel, crumbly texture, loose, poorly sorted	5	3		
5	0		1' silty clay transitions to silty sand w/ rounded gravel and cobbles poorly sorted, silt at end of run	5	4		2
10	0		Silt with rounded gravel and cobbles, Sandy silt at end of run, loose, poorly sorted	5	4		4
15	0		Water table @ 16 ft bgs Sandy silt transition to silty sand w/ rounded gravel and cobbles, well sorted	5	4		6
20	0		Saturated siltysand with rounded gravel and cobbles, poorly sorted coarse sand at end of run	5	5		8
25							10

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BORING LOG

Project No. MN0832G

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Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
10	0		Clay at 28 ft bgs Sandy silt w/ rounded gravel and cobbles High plasticity gray clay	5	4		10
30	0		High plasticity gray clay, stiff	5	6		12
35							14
16							16
18							18
20							20
22							22
24							24

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15 foot screen

13-28

BORING LOG

Geosyntec consultants

Boring ID	MW-56
Project No.	MN0832 G
Project Name	Former Sperry Remington-North
Location	Elmira, NY
Drilling Co.	Cascade
Driller/helper(s)	Rich + Fract
Rig type	Geoprobe 7720DT

Drill to 30
Bottom of screen at 28

Geologist	CB
Drilling Method	Direct Push
Borehole Dia.	1.5"
Depth to Water	~16.5
Date	2/4/21
MS/MSD	
Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (Inches)	Analytes	Depth (ft)
			0-8" Brown. Sandy Silt. Soft to stiff. Moist				
			8-22" Dark Brown. Gravelly Sand w/ cobbles. Loose. Dry. Poorly sorted.	60	47		
			22-32" Brown. Sandy silt. Stiff. Dry				
			32-47" Brown. Sandy Gravel. Dry. Dense. Fine. Poorly sorted.				
			0-36" Brown. Sandy Gravel. Dry Dense. Fine Sand. Fine to coarse gravel. Poorly sorted. Well rounded	60	36		

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BORING LOG

Project No. MN0832G

MW-56

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Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
10-15			0-40 SAA. Dry	60	40		
15-20			0-13" SAA 13"-31" Brown: Sandy Gravel. Saturated. Fine to Coarse, well-rounded gravel. Poorly sorted	60	31		
20-25			0-30" Same as above.	60	30		

BORING LOG

Geosyntec consultants

Boring ID	MW-56	Geologist	CB
Project No.	MN0832	Drilling Method	Direct Push
Project Name	Former Sperry Remington-North	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	2/4/21
Driller/helper(s)	Roger + Tracey	MS/MSD	
Rig type	Geoprobe 7220DT	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
25-30			0-8" Gravelly Sand. Dense. Saturated. Fine to coarse. Poorly sorted.	60	45		
			8-20" Gravel. Loose. Saturated. Well rounded. Poorly sorted.				
			20-28" Sandy gravel. Fine sand. Fine to medium gravel. Loose. Saturated.				
			28-45" Brown. Clay. Very stiff. Wet.				
10							10

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BORING LOG

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Boring ID: MW-57
Project No: MN0832G
Project Name: Former Sperry Remington North
Location: Elmira, NY
Drilling Co: Cascade
Driller/helper(s): Frank + Marshall
Rig type: Sonic

Geologist: K.K.
Drilling Method: ~~Direct Push~~ SONIC
Borehole Dia: 6.5"
Depth to Water: 16.5
Date: 2/6/21
MS/MSD: N/A
Duplicate: N/A

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (feet)	Recovery (inches)	Analytes	Depth (ft)
	0		0-12: fine sand w/ silt and organics, sub rounded gravel, loose, poorly sorted 12-24: black, gravelly silt, loose, poorly sorted, brick and fine sand	5	55		
5			24-55: light brown silt w/ subrounded gravel, dense				
	0		dark brown sand w/ subrounded to subangular gravel, concrete bits throughout, loose, poorly sorted, cobbles at end of run	5	48		
10			dark brown sand w/ subrounded to angular gravel, rounded cobbles, loose, poorly sorted. Silt and cobbles at end of run	10	60		
15	0		dark brown sand w/ gravel and cobbles, loose, poorly sorted				
20				10	71		
30			Clay at 27' dark gray, fat clay at 27'				

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BORING LOG

Boring ID: MW-58
Project No.: MN0832G
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Frank and Marshall
Rig type: Sonic

Geologist: K. Kimmey + A. Jarvis
Drilling Method: Direct Push
Borehole Dia: ~~1.5"~~ 6.5"
Depth to Water: 12' bgs
Date: 1/25/21
MS/MSD: N/A
Duplicate: N/A

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
5	0ppm		High organic silt, brown/Black silt with fragments of bricks and coal, loose, rounded gravel towards end of run, poorly sorted	5	4		
10	0ppm		Dark brown sandy silt with rounded cobbles, loose, poorly sorted	5	3		
15	0ppm		Water table at 12 ft bgs Sandy silt w/ angular gravel and some cobbles. Loose, poorly sorted	5	2.5		
20	0.8 ppm		Saturated ~~[illegible]~~ fine and coarse sand with rounded gravel and cobbles, oil sheen on cobbles. light grey, poorly sorted	5	2		
25	0 ppm		Clay at 21 ft bgs Angular gravel & sand, High Plasticity clay with gravel and cobbles	5	2.75		

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BORING LOG

Geosyntec consultants

Boring ID: MW-59
Project No.: MW-0832G
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Frank + Marshall
Rig type: Sonic

Geologist: KK
Drilling Method: ~~Direct Push~~ Sonic
Borehole Dia: ~~1.5"~~ 6.5"
Depth to Water: 16
Date: 2/9/21
MS/MSD: N/A
Duplicate: N/A

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (ft)	Recovery (inches)	Analytes	Depth (ft)
5	0		dark brown to light brown silt, and fine sand. Dense, well sorted. Observed concrete at 36" 0-35" 36"-45" Gravelly sand, subrounded to subangular gravel, loose, dark brown, poorly sorted	5	45"		2
15	0		same as 36"-45" above rounded to subrounded cobbles at end of run	10	60"		4
25	0		water at 16' Dark brown fine to course sand with subangular gravel, rounded to subrounded cobbles. Loose, poorly sorted, dark brown. Well sorted fine sand at end of run	10	63"		5
35			Clay at 32 (dark gray, fat clay) above clay: sandy gravel, dark brown, subangular to subrounded	10	59"		8
10							10

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BORING LOG

Boring ID: MW-60

Project No.:

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Frank

Rig type: Sonic

Geologist: A. Jennings

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water: 19' bgs

Date: 1/28/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
	0.0		High organics, large rounded cobbles at surface, changes to dark brown/Black Sandy silt with fragments of Brick. Thin layer of clay at end of run, poorly sorted	5	4		
5							2
	0.0		Dark silty clay w/ rounded gravel, changes to sandy silt with rounded cobbles at end of run, crumbly texture poorly sorted	5	4		
10							4
	0.0		light brown silt w/ rounded gravel, silty sand w/ rounded cobbles at end of run. Loose poorly sorted	5	2.5		
15							6
	0.0		Water table at 19 ft bgs Silty sand with rounded cobbles, Angular gravel beneath water table poorly sorted	5	4		
20							8
	0.0		Rounded gravel and coarse sand, 1.5' layer silty clay, rounded gravel, cobbles, and coarse sand at end of run	5	5		
25							10

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BORING LOG

Geosyntec consultants

Project No. MN0832G

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
10	0.0		Coarse sand w/ rounded gravel and cobbles 5" clay at end of run poorly sorted	5	3		10
30	0.0		Clay aquitard at 30ft bgs Grey, high plasticity clay, some rounded gravel	5	6		12
35							14
16							16
18							18
20							20
22							22
24							24

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BORING LOG

Geosyntec consultants

Boring ID: MW-61
Project No: MN0832G
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Frank and Marshall
Rig type: Sonic

Geologist: K. Kimmey
Drilling Method: Direct Push
Borehole Dia: ~~19~~ 6.5"
Depth to Water: 17.5
Date: 1/25/21
MS/MSD: N/A
Duplicate: N/A

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0		Silt with organics, dark brown, moist, well sorted. Silt with sand and cobbles. At end of run, rounded gravel, dark brown, moist	5	1.7		
5	0		Sand with silt and some gravel dark brown, moist, poorly sorted, cobbles. light brown, fine sand at end of run (to dry)	5 ~~10~~	5		
10	0		dark brown sand with rounded gravel and some cobbles. Poorly sorted, loose	5	~~5.5~~ 5		
15	0		[water @ 17.5' dark brown sand, cobbles, rounded gravel, moist. poorly sorted, loose	5	5		
20	0		Fine sand at top of run dark brown, wet, ^gravel with some sand, poorly sorted, coarse sand	5	1.7		
25							

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(2)

BORING LOG MW-101

Project No. MN0832G

Geosyntec consultants

Depth (ft)	PID (ppm)	Sample Type	Lithologic Description	Run (inches)	Recovery (inches)	Analyses	Depth (ft)
25	0		Clay at top of run Clay w/ gravel, cobble, wet, dense	5	6 (clay has stretched)		
30	0		Clay ~~w/ gravel~~, dark gray, crumbly, turns toward dry	5	5		
35							

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Geosyntec consultants

BORING LOG

Boring ID: MW-62

Project No.:

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Frank

Rig type: Sonic

Geologist: A. Jennings

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water: 16

Date: 2/4/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0	1300	High organics sandy silt w/ rounded gravel and cobbles, light brown sandy silt at end of run, loose, poorly sorted	5	4		
5	0		silty sand w/ angular gravel and cobbles loose, poorly sorted	5	4		2
10	0		Silty sand w/ rounded gravel and cobbles, 1' thick lense of clay, loose poorly sorted	5	5		4
15	0		Water table @ 16 ft bgs Coarse silty sand w/ large rounded cobbles, saturated, poorly sorted	5	4		6
20	0		~~coarse~~ Saturated coarse sand w/ rounded gravel, transitions to stiff gray clay w/ angular gravel (appears to be till) Till @ 23 ft bgs	5	5		8
25							10

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BORING LOG

Geosyntec consultants

Project No. MN0832G

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
10	0		Stiff gray Till w/ angular gravel	5	5		10
30	0		Stiff gray Till w/ angular gravel	5	5		12
35	0		Till transitioning to shale bedrock @ 36 ft, drilling stopped @ 38 ft bgs	3	3		14
40							16
18							18
20							20
22							22
24							24

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BORING LOG

Boring ID: MW-63

Project No.:

Project Name: Former Sperry Remington-North

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Frank Marshall

Rig type: Sonic

Geologist: A. Jennings

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water: 11ft bgs

Date: 1/29/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0.0		High organics, dark brown/black sandy silt, Rounded Cobbles and silty clay at end of run. Loose, poorly sorted	5	4.5		
5	0.0		Silty sand with rounded cobbles and gravel throughout, Loose, well graded	5	4		2
10	0.0		Water table at 11ft bgs. Saturated sandy silt w/ rounded gravel and cobbles, light brown w/ pockets of dark material	5	2.5		4
15	0.0		Saturated Coarse Sand with rounded gravel at end of run, well sorted	5	2		6
20	0.0		Coarse sand and rounded gravel at top of run, Transitions to large rounded cobbles and silty sand at end of run, well sorted	5	4		8
25							10

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BORING LOG

Geosyntec consultants

Project No. MN0832G

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
10			Clay Aquitard at ~~28~~ ft bgs 28ft				10
	0.0		Coarse sand with rounded gravel, large cobbles ~~and~~ transitioning to high plasticity grey clay.	5	3.5		
30							12
	0.0		High plasticity grey clay	5	6		
35							14
40							16
18							18
20							20
22							22
24							24

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BORING LOG

Geosyntec consultants

Boring ID	MW-64
Project No.	MN08236
Project Name	Former Sperry Remington North
Location	Elmira, NY
Drilling Co.	Cascade
Driller/helper(s)	Frank + Marshall
Rig type	Sonic

Geologist	A. Jennings / K. Kimmey
Drilling Method	Direct Push
Borehole Dia.	6.5"
Depth to Water	13
Date	1/26/21
MS/MSD	N/A
Duplicate	N/A

Depth ft	PID (ppm)	Sampling Time	Lithologic Description	Sp. Interval	Recovery (inches)	Analysis	Comments
	0		Moist silt with rounded gravel. Fine sand at end of run.	5	4		
5	0		Fine sand and gravel, loose, poorly sorted	5	4.5		
10			End A. Jennings log begin K. Kimmey log water level at 13' bgs				
15	0		Angular, cobbles (to subrounded) sand w/ rounded gravel Fine to coarse sand at end of run, moist, loose, poorly sorted	5	4		
20			Drillers state they missed this interval				
25			Fine, dark brown sand; sandy gravel with subangular to subrounded cobbles at end of run	5	2		

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BORING LOG

Project No. MN0832G

Geosyntec consultants

	0		Dark brown sandy gravel, rounded cobbles, wet, loose, poorly sorted fine, dense, well sorted sand at end of run	5			
30							
	0		Dark brown fine sand at top of run. Sandy gravel w/ cobbles, at end of run (rounded to subangular)	5			
35							
			Clay with some gravel at top of run. Fat, dark gray clay throughout run	5			
40			Clay at 35' bgs				

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BORING LOG

Boring ID: MW65
Project No.:
Project Name: Former Sperry Remington-North
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Frank
Rig type: Sonic

Geologist: A. Jennings
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water: 15 ft bgs
Date: 1/26/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
5	0 ppm		Dark brown gravel and sand, rounded cobbles, fragments of brick, silty sand at end of run	5	3.5		
10	0 ppm		Light Brown silty sand with rounded gravel. Changes to sandy silt at end of run, loose, poorly sorted.	5	5		
15	0 ppm		Fine silty sand with gravel at top of run and rounded cobbles at end of run. Poorly sorted	5	4		
20	0 ppm		Water table at 15 ft bgs Saturated silty sand with well rounded gravel and cobbles, coarse sand and gravel at end of run.	5	4		
25	0 ppm		Saturated gravel and silt at top of run, coarse sand and rounded cobbles at end of run	5	4		

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BORING LOG

Boring ID: MW 65

Project No:

Project Name: Former Sperry Remington North

Location: Elmira, NY

Drilling Co: Cascade

Driller/helper(s):

Rig type: Sonic

Geologist: A. Jennings

Drilling Method: Direct Push

Borehole Dia: 1.5"

Depth to Water:

Date:

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
30	0ppm		Clay at 28ft bgs Coarse sand at top of run followed by rounded gravel and cobbles on top of high plasticity clay. Well Sorted	5	5		
31			High plasticity clay	1	1		
10							10

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BORING LOG

Boring ID: MW-66
Project No: MN0882G
Project Name: Former Sperry Remington North
Location: Elmira, NY
Drilling Co: Cascade
Driller/helper(s): Frank + Marshall
Rig type: Sonic

Geologist: K. Kimmerly
Drilling Method: Direct Push
Borehole Dia: 6.5"
Depth to Water: 19
Date: 1/27/21
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
	0		Gravelly sand, dark brown, moist, loose, some silt, rounded to rounded gravel, some cobbles	5	4		
5	0		SAA lighter brown, fine sand w/ gravel at end of run, bits of concrete	5	5		
10	0		Gravelly sand, rounded gravel, loose, moist, cobble, at end of run	5	2		
15	0		SAA Light brown gravelly sand in middle of run, poorly sorted WL @ 19	5	3		
20	0		dark brown rounded to subrounded gravel with some fine sand, loose, poorly sorted. Gravel w/ coarse sand at end of run	5	5		
25							

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BORING LOG

Project No. MN08320

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25							
	O		dark brown gravel with coarse to fine sand, subrounded to subangular, loose, poorly sorted. Fine sand at end of run	5	3		
30							
	O		dark brown fine sand, well sorted. Sand with some gravel and cobbles at end of run	5	4		
35							
	O		dark brown sand with gravel and cobbles, loose, poorly sorted. Rounded to subrounded gravel w/ cobbles at end of run	5	4		
40							
	O		Clay, fat, dark gray with some gravel at top of run. Clay at 40'	10	0		
50							

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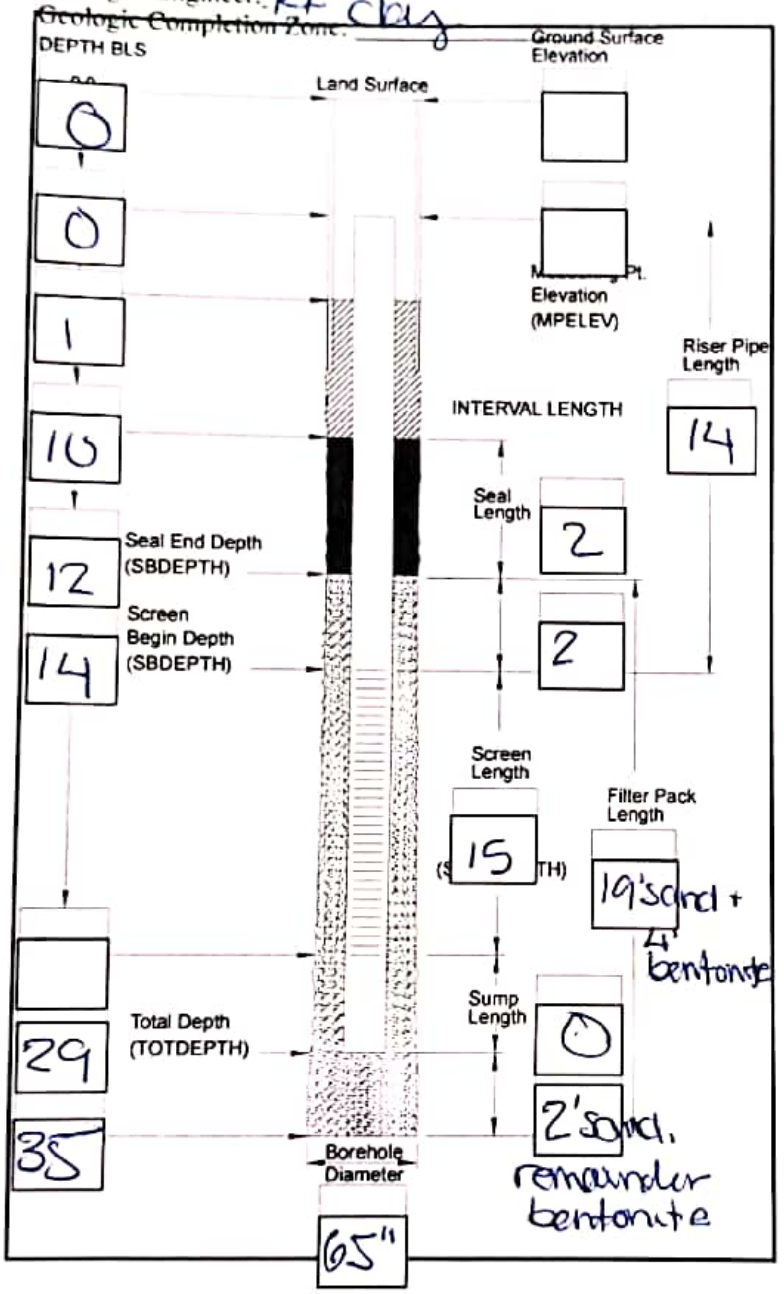
Geosyntec consultants

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21044

Well I.D.: MW-48
Drilling Company: Cascade
Driller: MN03320
Geologist/Engineer: KK Clay
~~Geologic Completion Zone:~~



Notes:
1. Drawing not to scale
2. Units are in feet

Site: Elmira, NY
Installation Method: Sonic KK
Casing Installation Date: ~~1/22/21~~ 1/22/21
Well Type: flush mount
Well Completion Method:

Well Completion
Guard Posts: ☐ Yes ☑ No Date: 1/22/21
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: 1/22/21
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/22/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco pure gold
Set-up/Hydration Time: 1335
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Hollister
Amount Used: 3.5 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Cody

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

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Geosyntec consultants

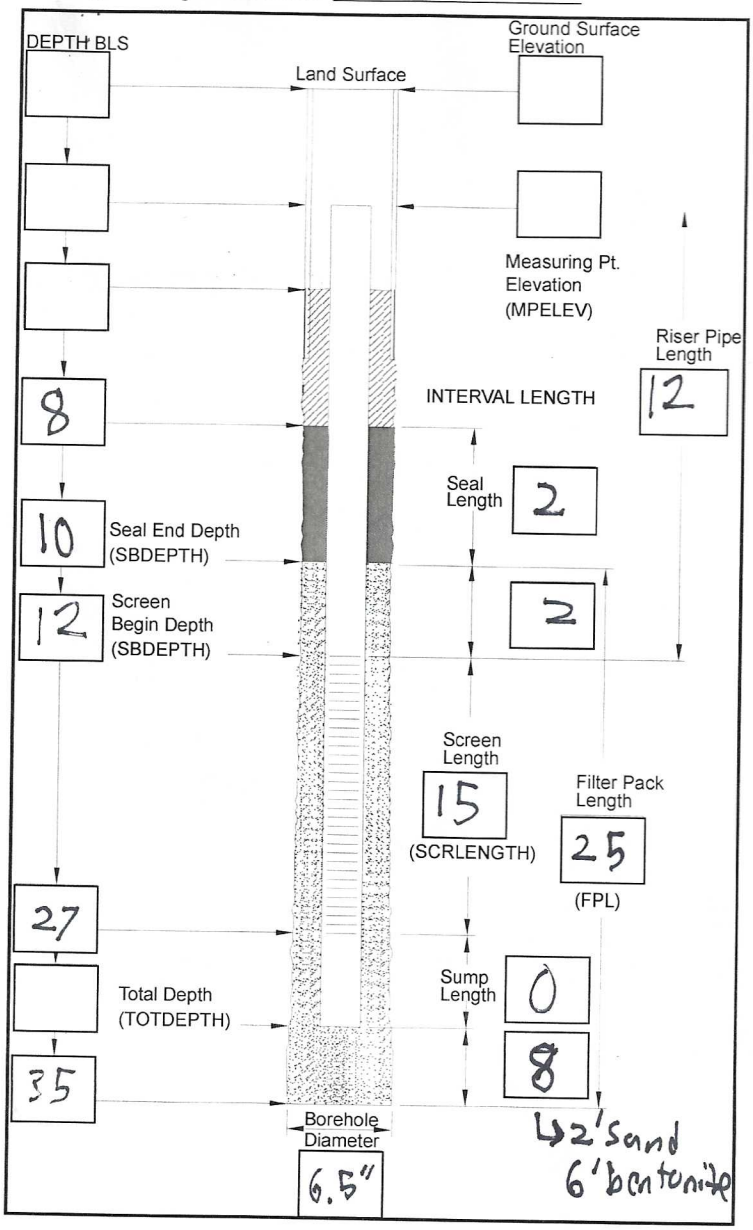
engineers | scientists | innovators

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-49
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: A. Jennings
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 2/5/21
Well Type: Flush Mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: _____
Surface Pad Size: _____ft x _____ft x _____ inches thick

Protective Casing or Cover - ☐ None
Diameter: _____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: _____ Weep Hole: ☐ Yes ☐ No

Grout – Date: _____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal - Date: 2/5/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: _____ ☐ Other: _____
Source/Brand: Ceto pure gold
Set-up/Hydration Time: _____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Vol. Fluid Added: 20 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: _____
Source/Brand: Hollistun
Amount Used: 4 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: _____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: _____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Vista

Backfill Plug ☐ Yes ☐ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____
Set-up/Hydration Time: _____

Total Water Volume During Construction
Introduced: _____gallons Recovered: _____ gallons

Comments:

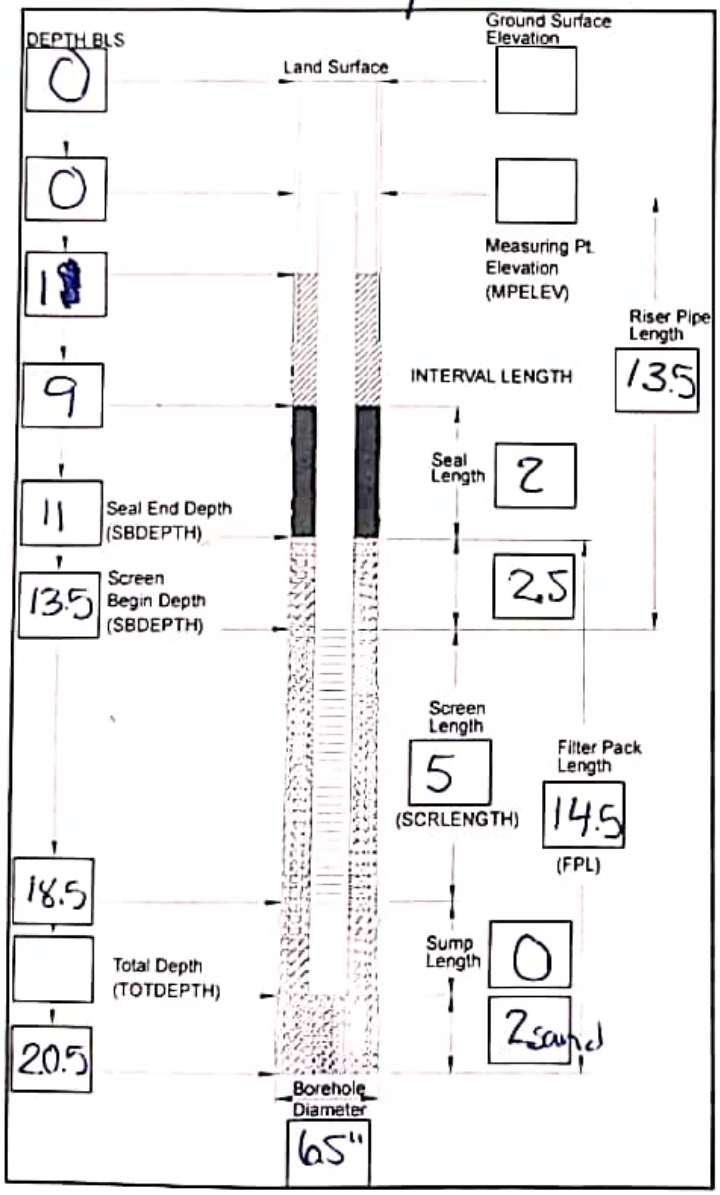
Geosyntec consultants

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-505
Drilling Company: Cascade
Driller: Mustrulle and Frank
Geologist/Engineer: K Kimmey
Geologic Completion Zone: Clay

Site: Elmira, NY
Installation Method: sonic
Casing Installation Date: 1/21/21
Well Type: flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: 1/22
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: 1/22
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco puregold
Set-up/Hydration Time: ~~1220~~ 1450
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Hanson
Amount Used: 3 ☑ bags ☐ pounds 50 lb bags
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

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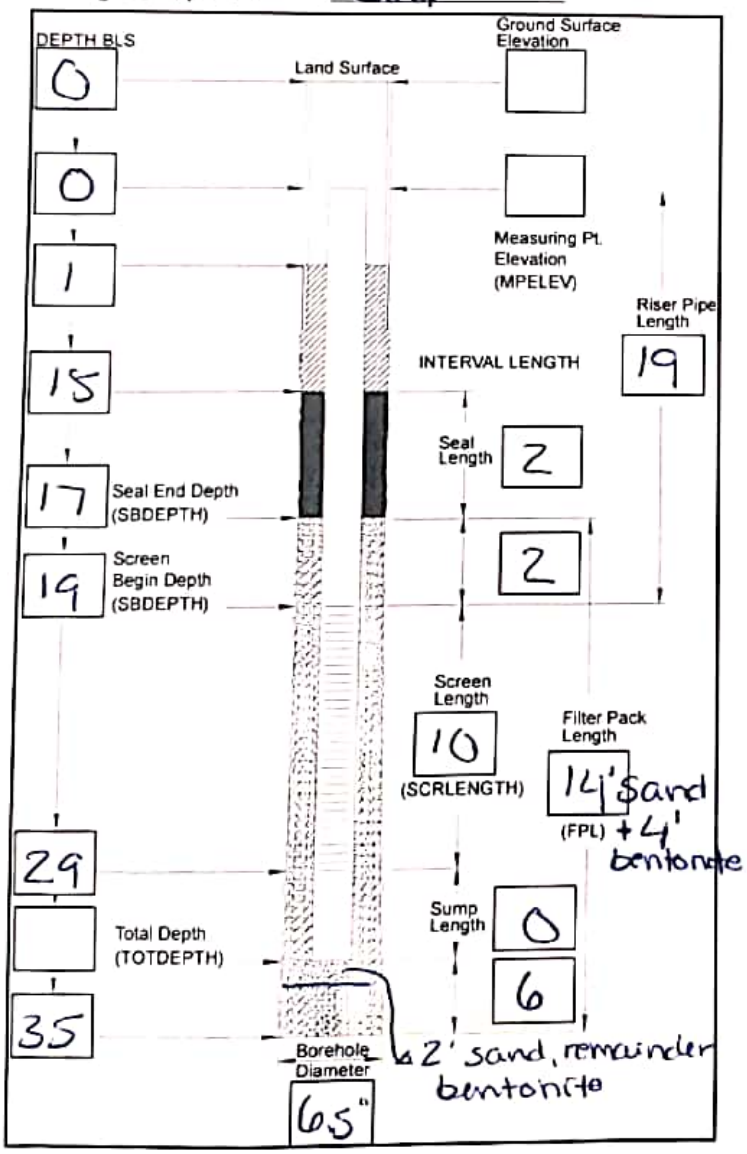
Geosyntec consultants

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-50I
Drilling Company: Cascade
Driller: Frank and Marshall
Geologist/Engineer: K Kimmey
Geologic Completion Zone: Clay

Site: Elmira, NY
Installation Method: sonic
Casing Installation Date: 1/21
Well Type: flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: 1/22
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: 1/22
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco pure gold
Set-up/Hydration Time: 1220
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Holliston
Amount Used: 3 ☑ bags ☐ pounds 50lb bags
Placement Method: ☐ Pressure Tremie ☐ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 5.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Set-up/Hydration Time: 1150

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

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Geosyntec consultants

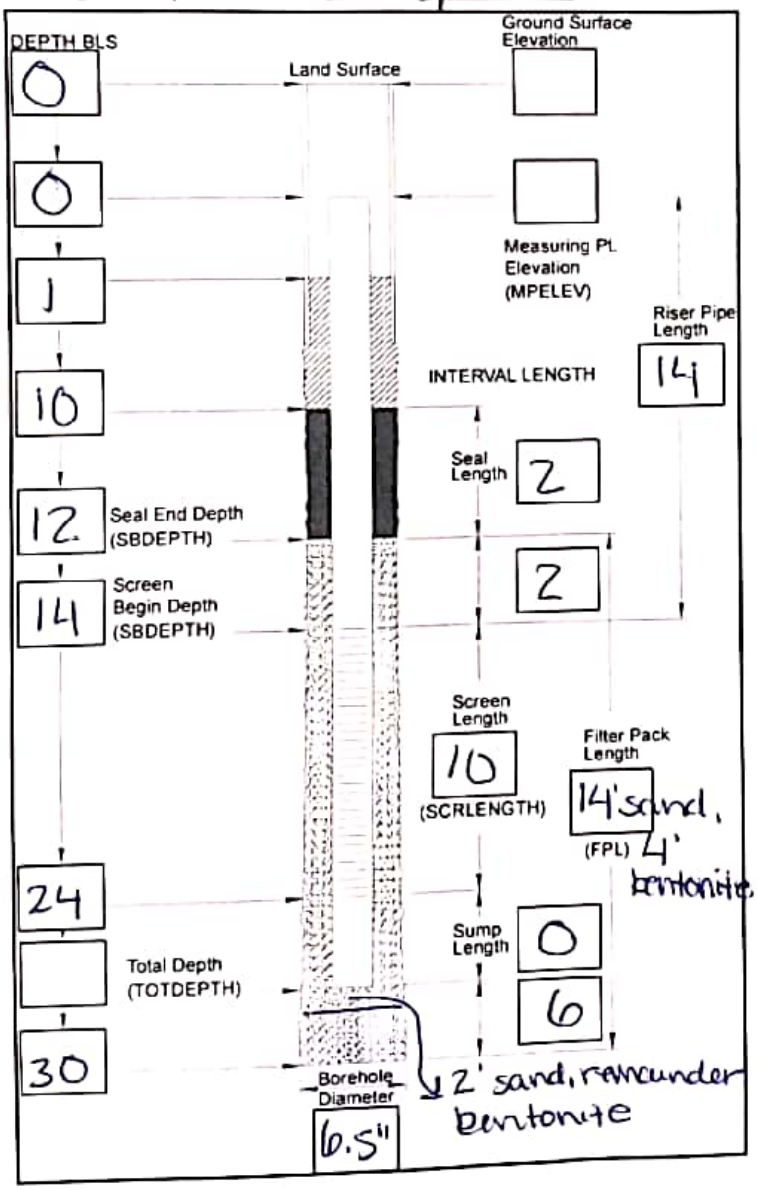
Engineers | Scientists | Innovators

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-51
Drilling Company: Cascade
Driller: Marshall + Frank
Geologist/Engineer: K. Kimmy
Geologic Completion Zone: Clay

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 1/21/21
Well Type: Flush Mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: ____
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: 1/22
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco pure gold
Set-up/Hydration Time: 0920 1/22
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Hollston
Amount Used: 4 ☑ bags ☐ pounds 50lb. bags
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Kosy

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Set-up/Hydration Time: 1550 1/21

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

Geosyntec consultants

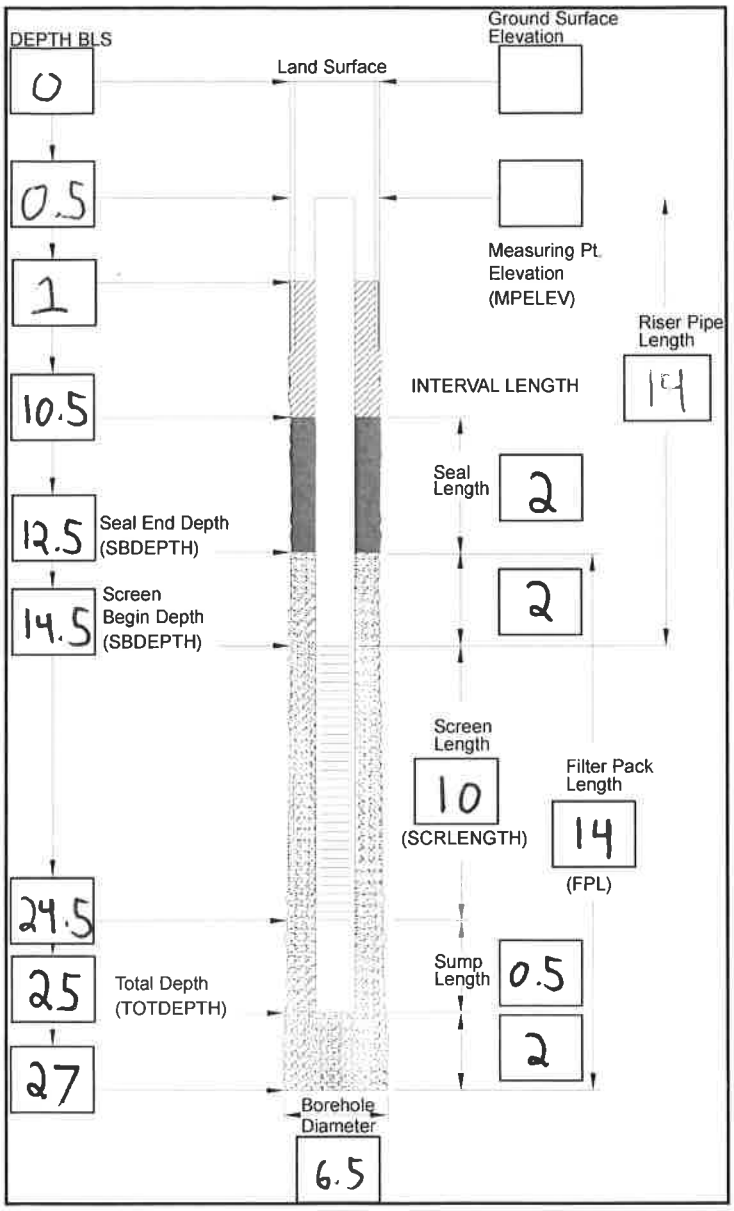
engineers | scientists | innovators

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-52
Drilling Company: Cascade
Driller: Rich + Roger
Geologist/Engineer:
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Geoprobe HSA
Casing Installation Date: _____
Well Type: Flush Mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: ____
Surface Pad Size: ____ft x ____ft x ____ inches thick

Protective Casing or Cover - ☐ None
Diameter: ____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: ____ Weep Hole: ☐ Yes ☐ No

Grout – Date: 1/21/20
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/20/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: ____
Set-up/Hydration Time: 1500 - Hydrated overnight
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 1 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: FilPro
Amount Used: ____ ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☐ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Hole Products

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____gallons Recovered: ____ gallons

Comments: Clay aquitard at 24' bgs
4.5" ID 6.5" OD HSA

Geosyntec consultants

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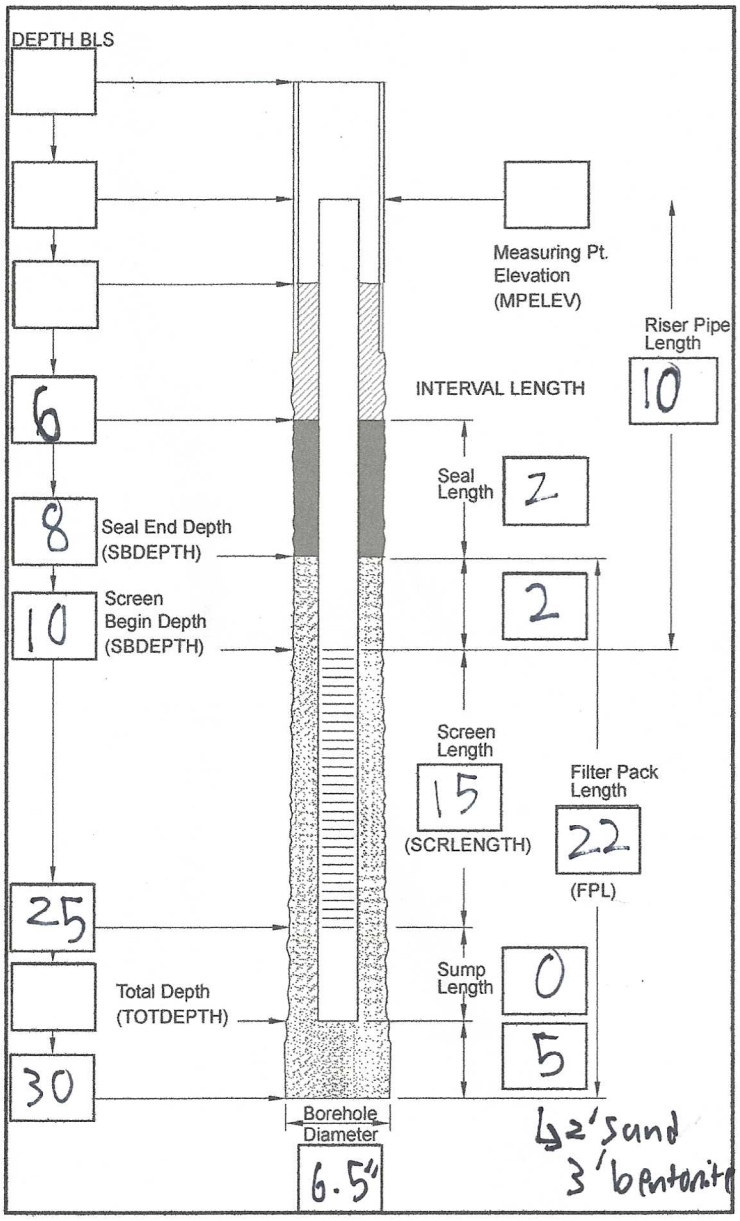
Well Construction Log – Stickup

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-53
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: A. Jennings
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 2/5/21
Well Type: Flush Mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: _____
Surface Pad Size: _____ft x _____ft x _____ inches thick

Protective Casing or Cover - ☐ None
Diameter: _____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: _____ Weep Hole: ☐ Yes ☐ No

Grout – Date: _____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal - Date: 2/5/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: _____ ☐ Other: _____
Source/Brand: Ceto pure gold
Set-up/Hydration Time: _____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Vol. Fluid Added: ≥0 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: _____
Source/Brand: Hollister
Amount Used: 4 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: _____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: _____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Kuby

Backfill Plug ☐ Yes ☐ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____
Set-up/Hydration Time: _____

Total Water Volume During Construction
Introduced: _____gallons Recovered: _____ gallons

Comments:

Geosyntec consultants

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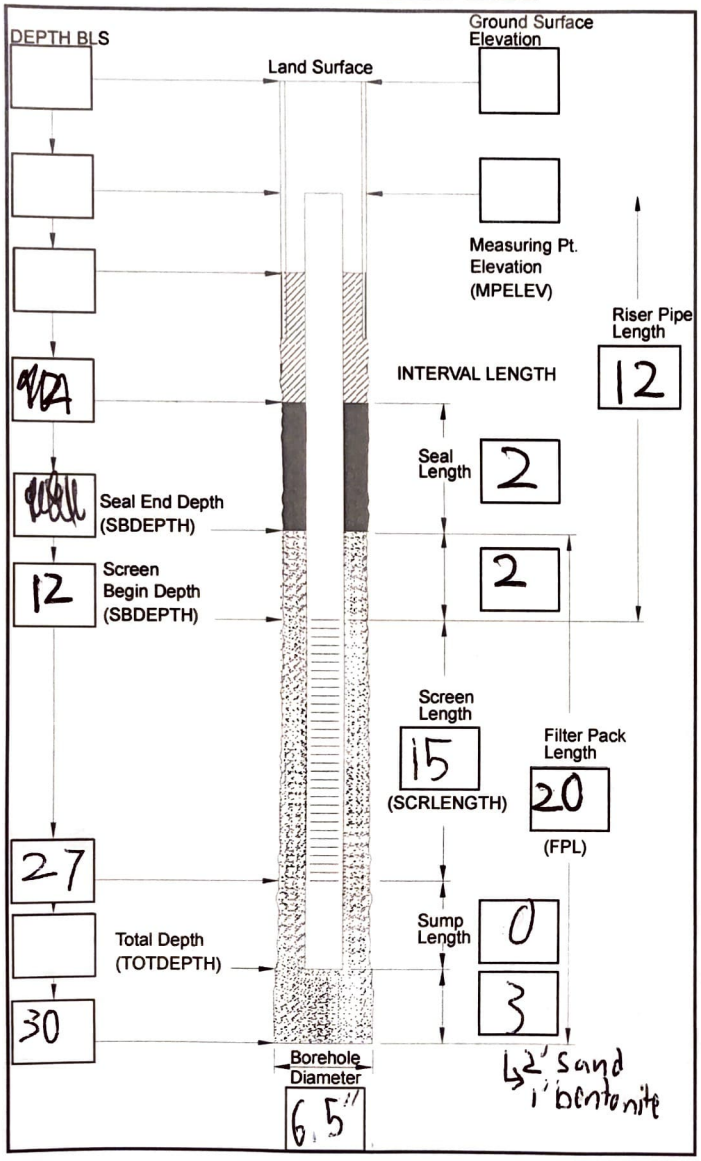
Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-54
Drilling Company: Cascade
Driller: Frank, Marshal
Geologist/Engineer:
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 2/4/21
Well Type: Flush Mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: _____
Surface Pad Size: _____ft x _____ft x _____ inches thick

Protective Casing or Cover - ☐ None
Diameter: _____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: _____ Weep Hole: ☐ Yes ☐ No

Grout – Date: _____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal - Date: 2/4/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: _____ ☐ Other: _____
Source/Brand: Cetco pure gold
Set-up/Hydration Time: _____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Vol. Fluid Added: 20 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: _____
Source/Brand: Hollister
Amount Used: 34 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☐ Gravity
☐ Other: _____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: _____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☐ Yes ☐ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____
Set-up/Hydration Time: _____

Total Water Volume During Construction
Introduced: _____gallons Recovered: _____ gallons

Comments:

Geosyntec consultants

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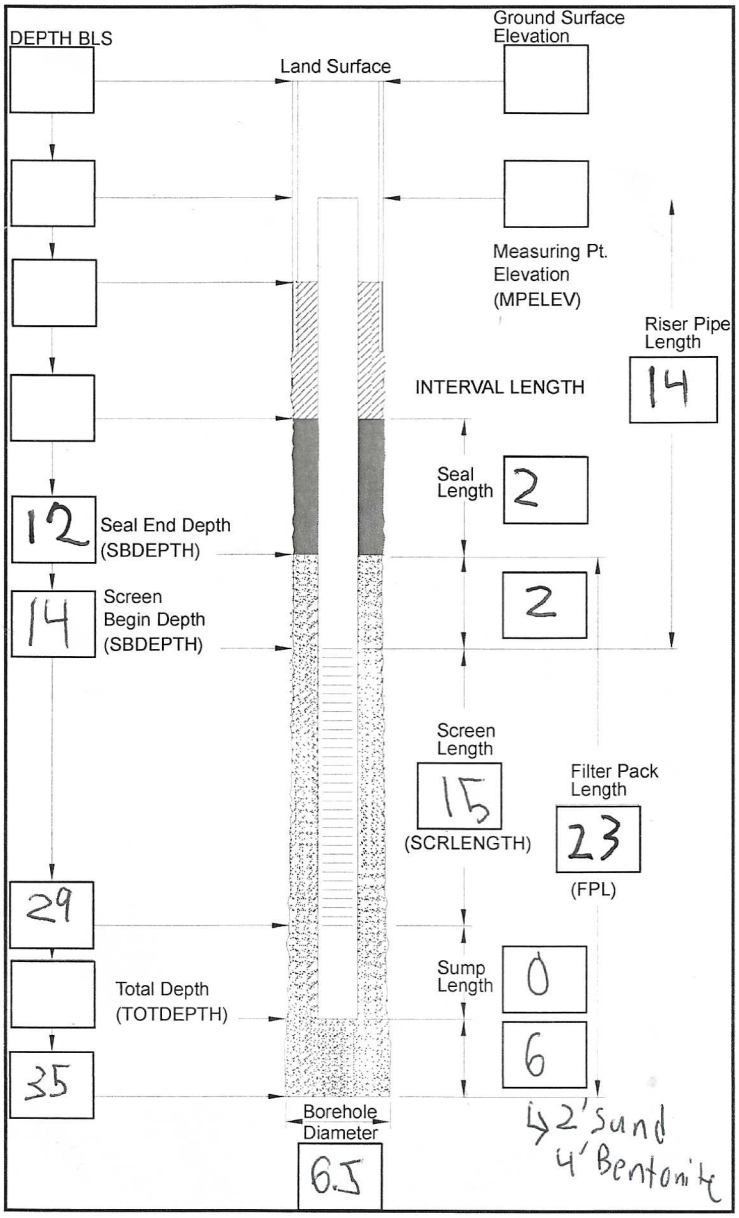
Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-55
Drilling Company: Cascade
Driller: _____
Geologist/Engineer: _____
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: _____
Casing Installation Date: _____
Well Type: _____
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: _____
Surface Pad Size: _____ft x _____ft x _____ inches thick

Protective Casing or Cover - ☐ None
Diameter: _____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: _____ Weep Hole: ☐ Yes ☐ No

Grout – Date: _____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal - Date: _____
Type: ☐ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: _____ ☐ Other: _____
Source/Brand: _____
Set-up/Hydration Time: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____
Vol. Fluid Added: _____ ☐ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: _____
Source/Brand: ~~[illegible]~~ Hollistor
Amount Used: 4 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: _____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: _____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Kelly

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Set-up/Hydration Time: _____

Total Water Volume During Construction
Introduced: _____gallons Recovered: _____ gallons

Comments:

Geosyntec consultants

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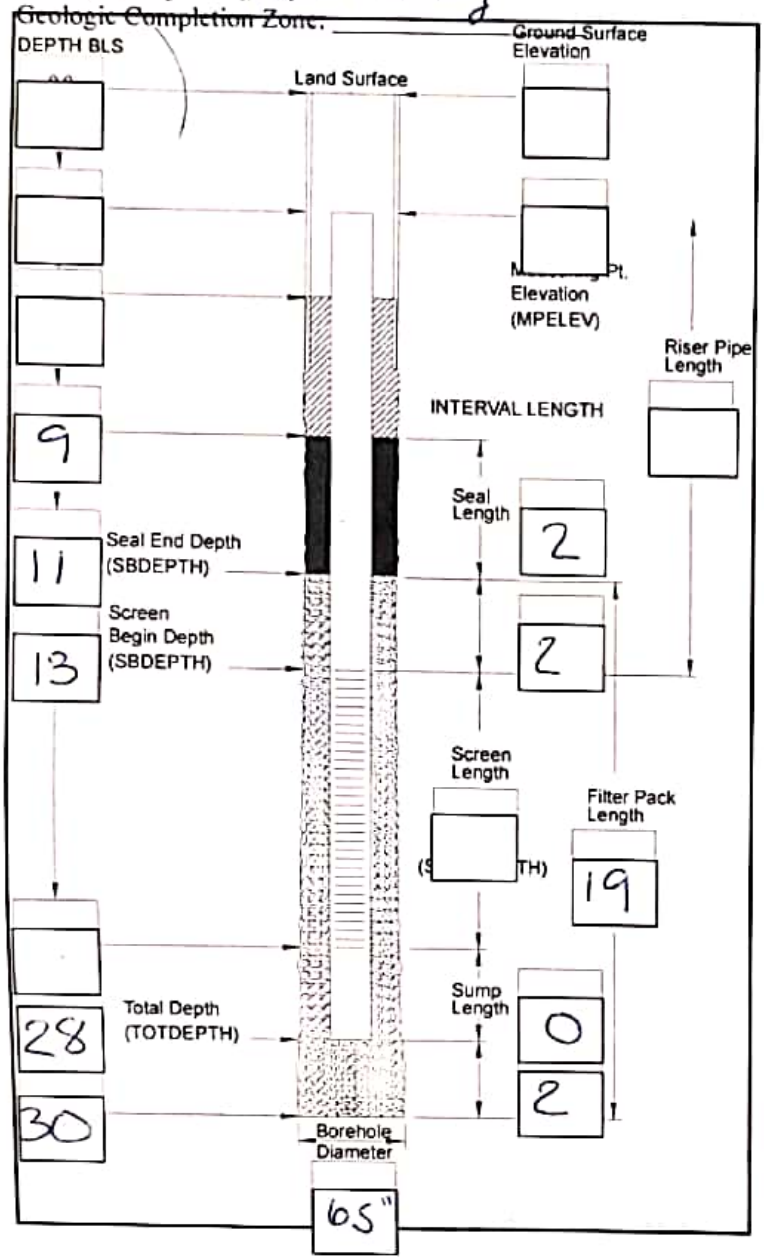
Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-56
Drilling Company: Cascade
Driller: Frank + Marshall
Geologist/Engineer: K. Kimmy
~~Geologic Completion Zone:~~

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 2/5/21
Well Type: Flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: ____
Surface Pad Size: ____ft x ____ft x ____ inches thick

Protective Casing or Cover - ☐ None
Diameter: ____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: ____ Weep Hole: ☐ Yes ☐ No

Grout – Date: ____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____

Seal - Date: 2/8/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco Pure gold
Set-up/Hydration Time: 1125
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Hallston
Amount Used: 3 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☐ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Kody

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

Geosyntec consultants

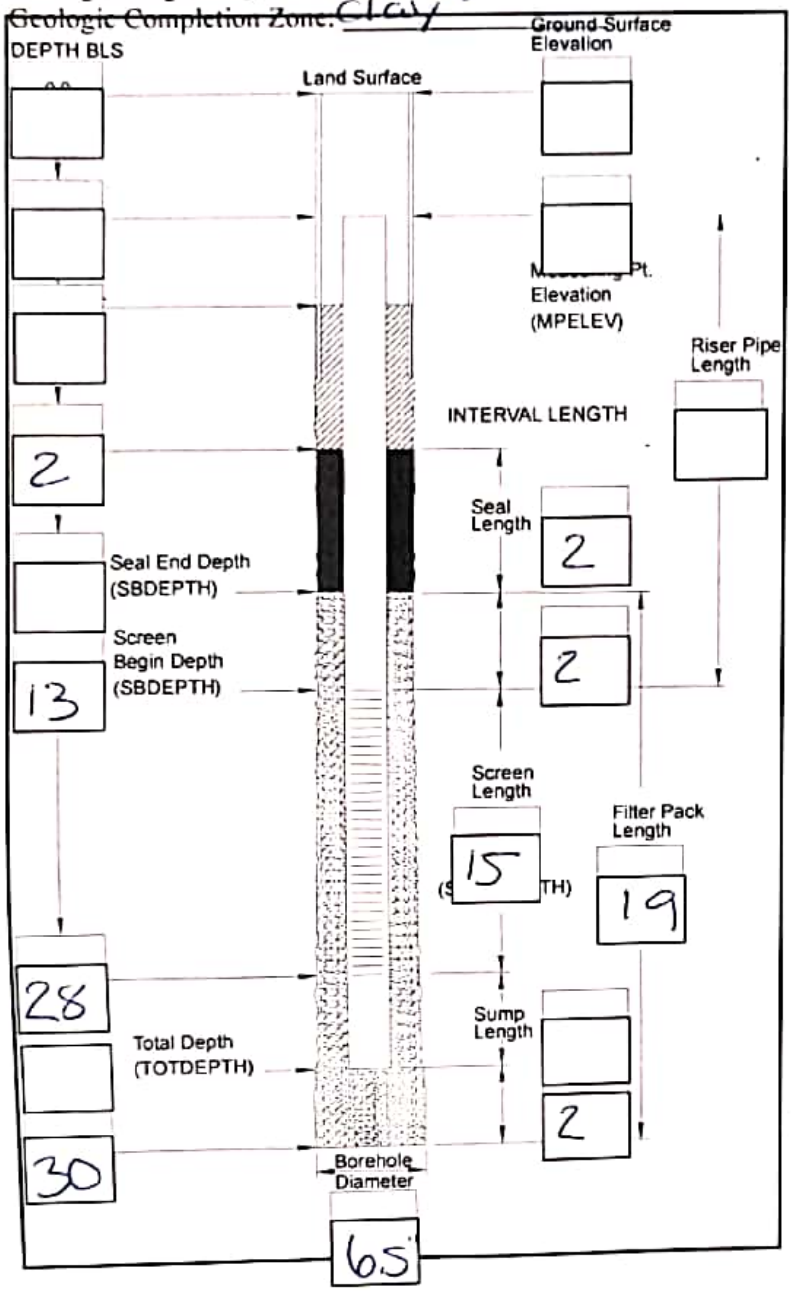
engineers | scientists | innovators

Well Construction Log – Flush Mount

10270 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-57
Drilling Company: Cascade
Driller: Frank + Marshall
Geologist/Engineer: K. Kimmey
Geologic Completion Zone: Clay

Site: Elmira, NY
Installation Method: 2/8/21 Sonic
Casing Installation Date: 2/8/21
Well Type: Flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: ____
Surface Pad Size: ____ft x ____ft x ____ inches thick

Protective Casing or Cover - ☐ None
Diameter: ____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: ____ Weep Hole: ☐ Yes ☐ No

Grout – Date: ____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____

Seal - Date: 2/8/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco Pureg old
Set-up/Hydration Time: 1600
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Hollston
Amount Used: 3 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____ KK
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

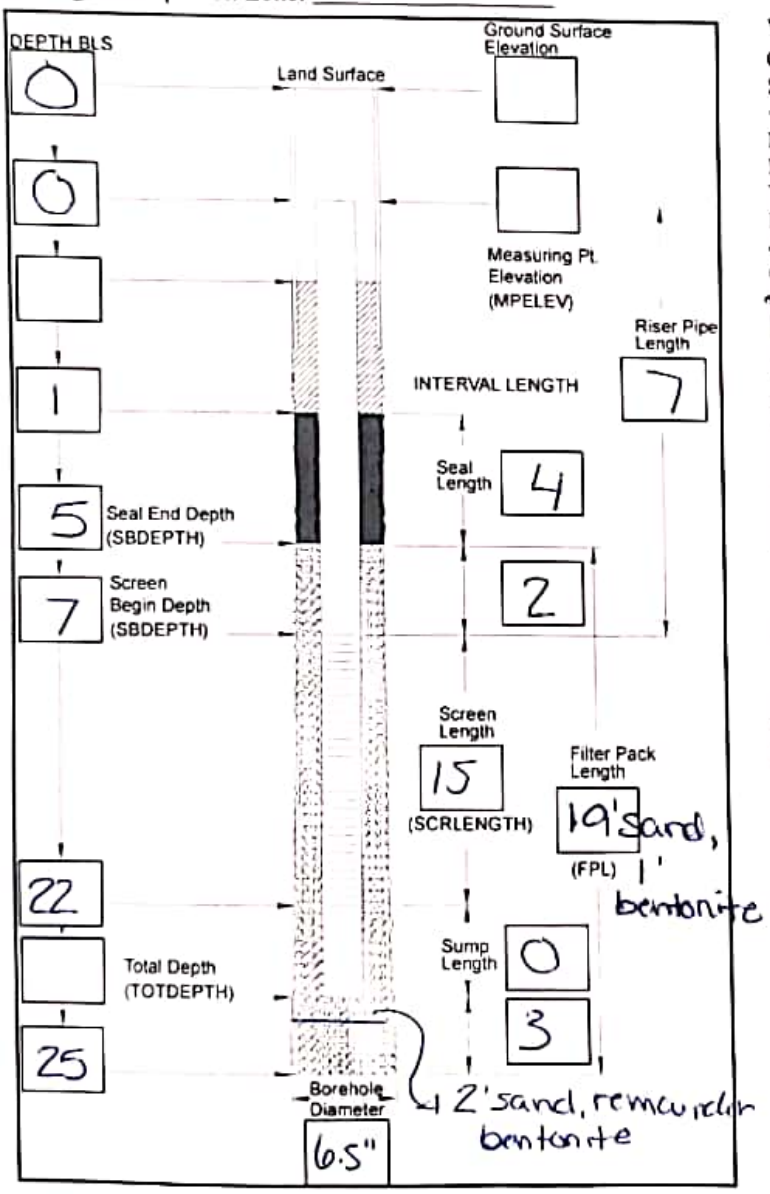
Geosyntec consultants

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-58
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: K. Kimmey
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 1/26
Well Type: Flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: 1/27
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: 1/27 this well was not grouted
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/26
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco aire gold
Set-up/Hydration Time: 1225
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Hollision
Amount Used: 3 ☑ bags ☐ pounds !!! 50 lb bags
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Set-up/Hydration Time: 0755

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

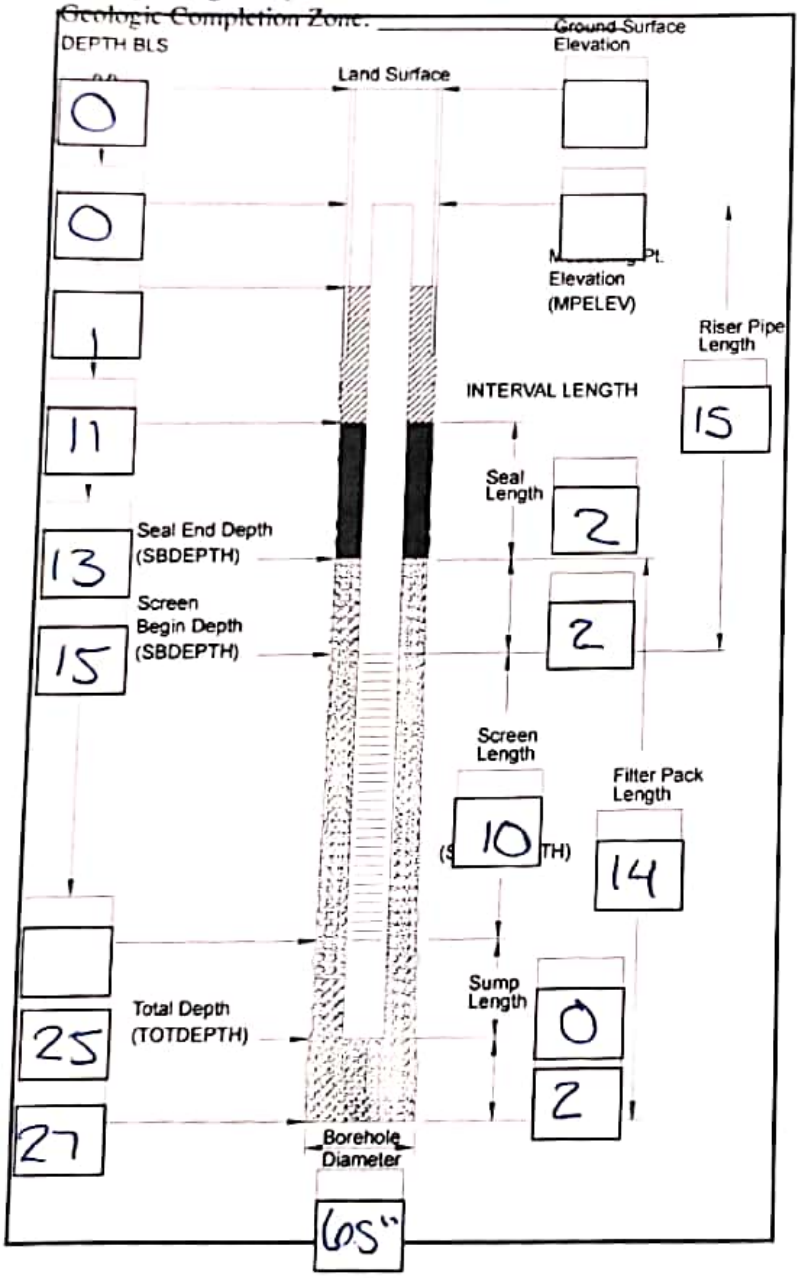
Scanned with CamScanner

Geosyntec consultants

Well Construction Log – Flush Mount

Well I.D.: MW-59S
Drilling Company: Cascade
Driller: Frank + Marshall
Geologist/Engineer: KK
~~Geologic Completion Zone:~~

Site: Elmira, NY
Installation Method: Sonic KK
Casing Installation Date: ~~2/10/21~~ 2/9/21
Well Type: flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: 2/9/21 2/10/21
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: ~~2/10/21~~ 2/9/21
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: ~~2/10/21~~ 2/9/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco Pureyield
Set-up/Hydration Time: 1345
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Vol. Fluid Added: ____ ☐ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Hollister
Amount Used: 3 ☑ bags ☐ pounds (est.)
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Kelly

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

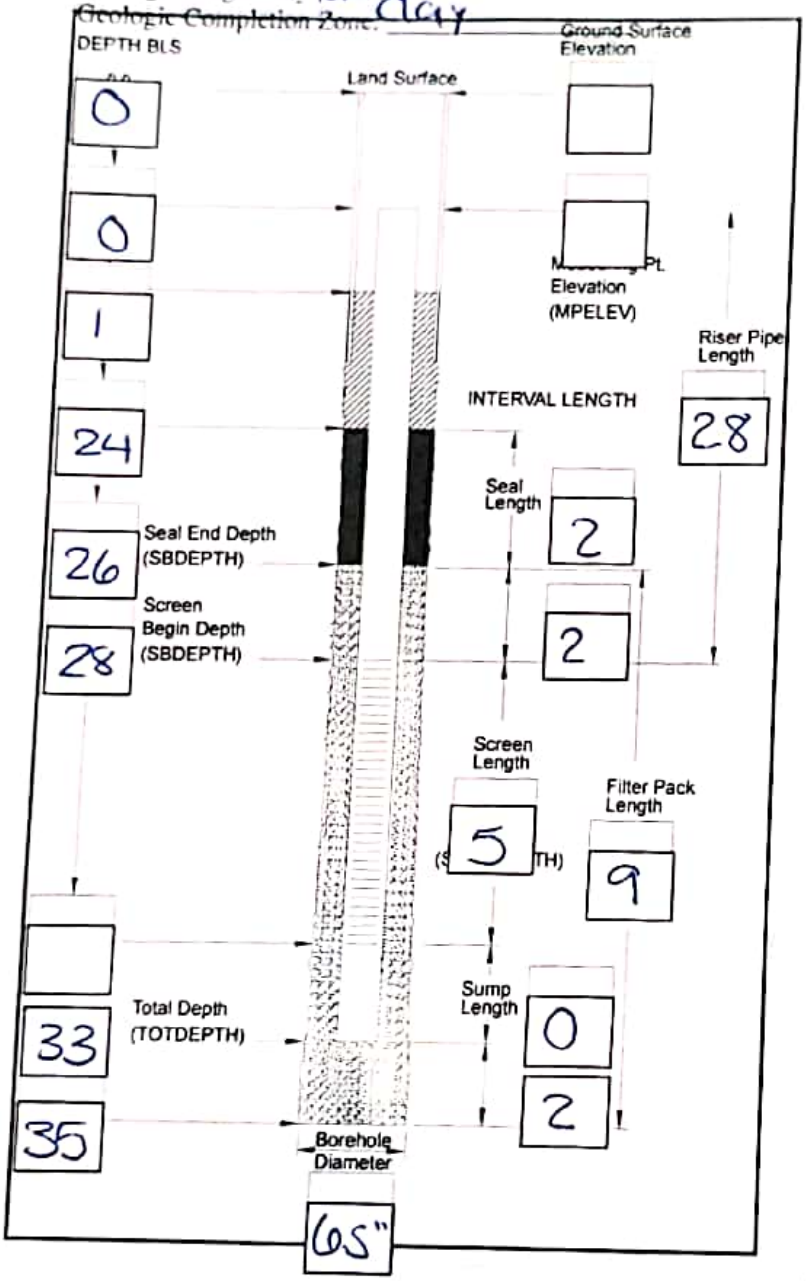
Scanned with CamScanner

Geosyntec consultants

Well Construction Log – Flush Mount

Well I.D.: MW-59I
Drilling Company: Cascade
Driller: Frank + Marshall
Geologist/Engineer: KK
Geologic Completion Zone: Clay

Site: Elmira, NY
Installation Method: Sonic KK
Casing Installation Date: 2/10/21-2/19/21
Well Type: Flushmount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date 2/19/21
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: 2/10/21-2/19/21
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 2/19/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Ceto Pyrogeld
Set-up/Hydration Time: 1 hr
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Holiston
Amount Used: 4 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 5.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

Geosyntec consultants

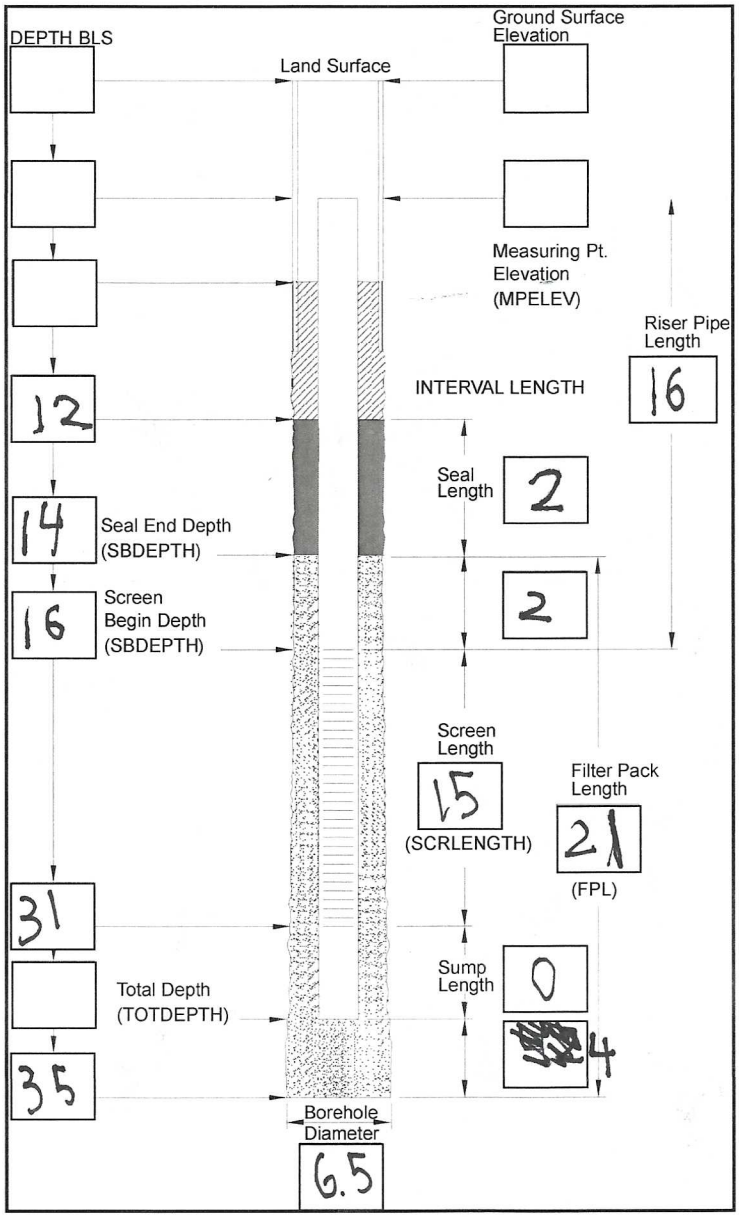
engineers | scientists | innovators

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-60
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: Austin Jennings
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 1/28/21
Well Type: Flush Mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: [redacted]
Surface Pad Size: [redacted] ft x _____ ft x _____ inches thick

Protective Casing or Cover - ☐ None
Diameter: _____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: _____ Weep Hole: ☐ Yes ☐ No

Grout – Date: _____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal - Date: 1/28
Type: ☐ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: _____ ☐ Other: _____
Source/Brand: _____
Set-up/Hydration Time: _____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: _____
Source/Brand: Hollston
Amount Used: 4 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: _____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: _____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Set-up/Hydration Time: 1600

Total Water Volume During Construction
Introduced: _____ gallons Recovered: _____ gallons

Comments:

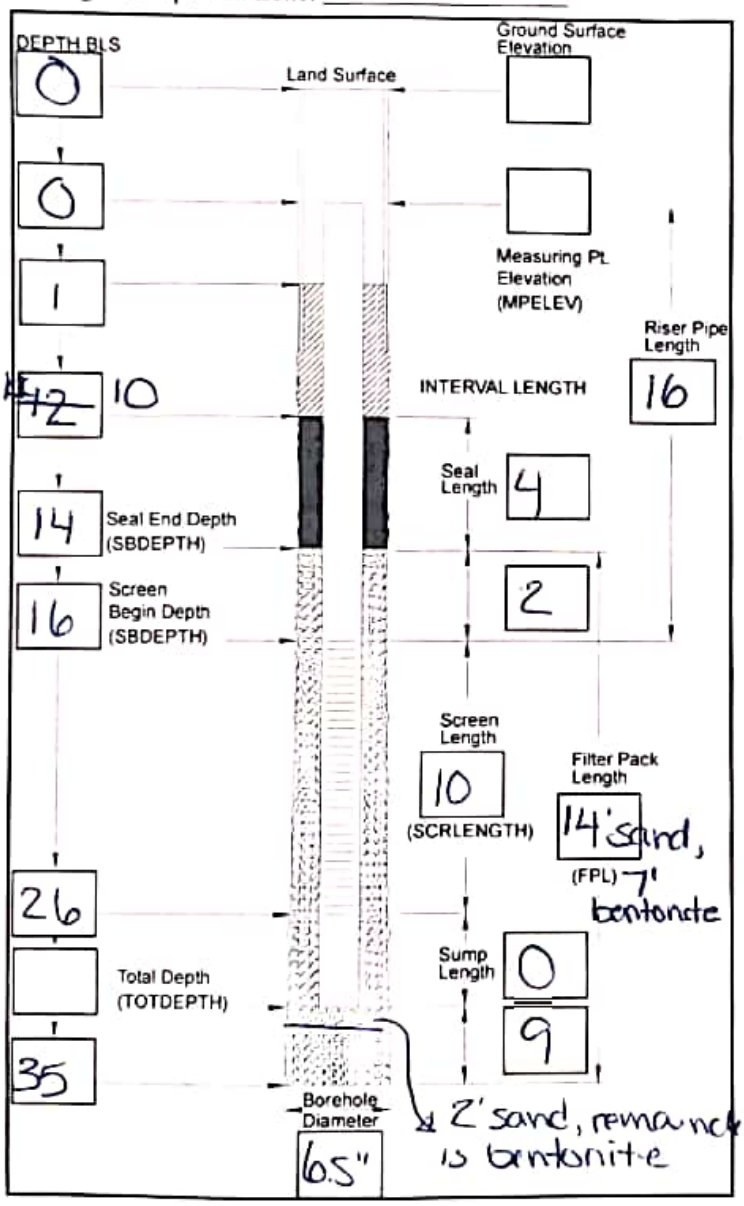
Geosyntec consultants

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-61
Drilling Company: Cascade
Driller: Frank and Marshall
Geologist/Engineer:
Geologic Completion Zone:

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 1/25
Well Type: Flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: 1/26
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☒ No

Grout – Date: 1/26
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/25
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco
Set-up/Hydration Time: 1400
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Hollister
Amount Used: 3 ☑ bags ☐ pounds 111.50 lb bags
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Set-up/Hydration Time: 1340

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

Geosyntec consultants

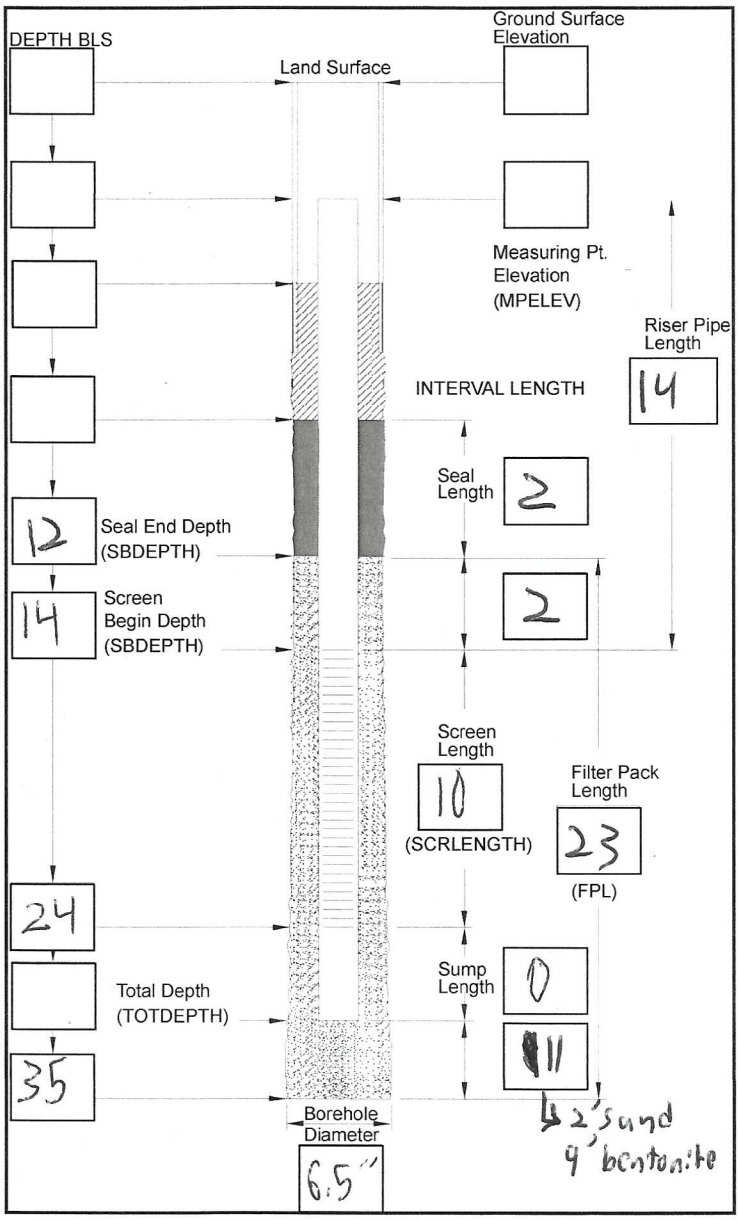
engineers | scientists | innovators

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-62
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer:
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 2/4/21
Well Type: Flush Mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: _____
Surface Pad Size: _____ft x _____ft x _____ inches thick

Protective Casing or Cover - ☐ None
Diameter: _____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: _____ Weep Hole: ☐ Yes ☐ No

Grout – Date: _____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal - Date: 2/4/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: _____ ☐ Other: _____
Source/Brand: Cetco puregold
Set-up/Hydration Time: _____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Vol. Fluid Added: 20 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: _____
Source/Brand: Hollister
Amount Used: 46 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☐ Gravity
☐ Other: _____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: _____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Keny

Backfill Plug ☐ Yes ☐ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____
Set-up/Hydration Time: _____

Total Water Volume During Construction
Introduced: _____gallons Recovered: _____ gallons

Comments:

Geosyntec consultants

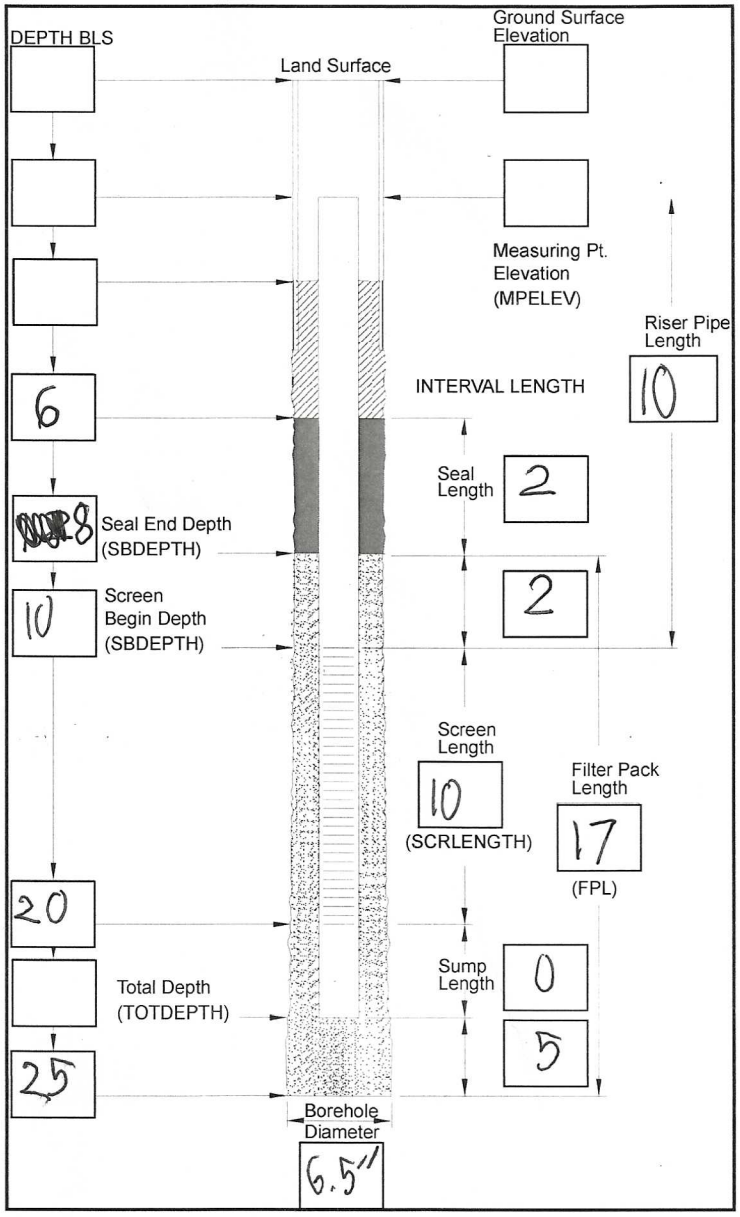
engineers | scientists | innovators

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-63S
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer:
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 1/29/21
Well Type: Flush Mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: _____
Surface Pad Size: _____ft x _____ft x _____ inches thick

Protective Casing or Cover - ☐ None
Diameter:_____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: _____ Weep Hole: ☐ Yes ☐ No

Grout – Date: _____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal - Date: 1/29/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time:_____ ☐ Other: _____
Source/Brand: Cetco pure Gold
Set-up/Hydration Time: _____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: _____
Source/Brand: Hollistop
Amount Used: 3 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: _____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: _____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Kaby

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____
Set-up/Hydration Time:_____

Total Water Volume During Construction
Introduced: _____gallons Recovered: _____ gallons

Comments:

Geosyntec consultants

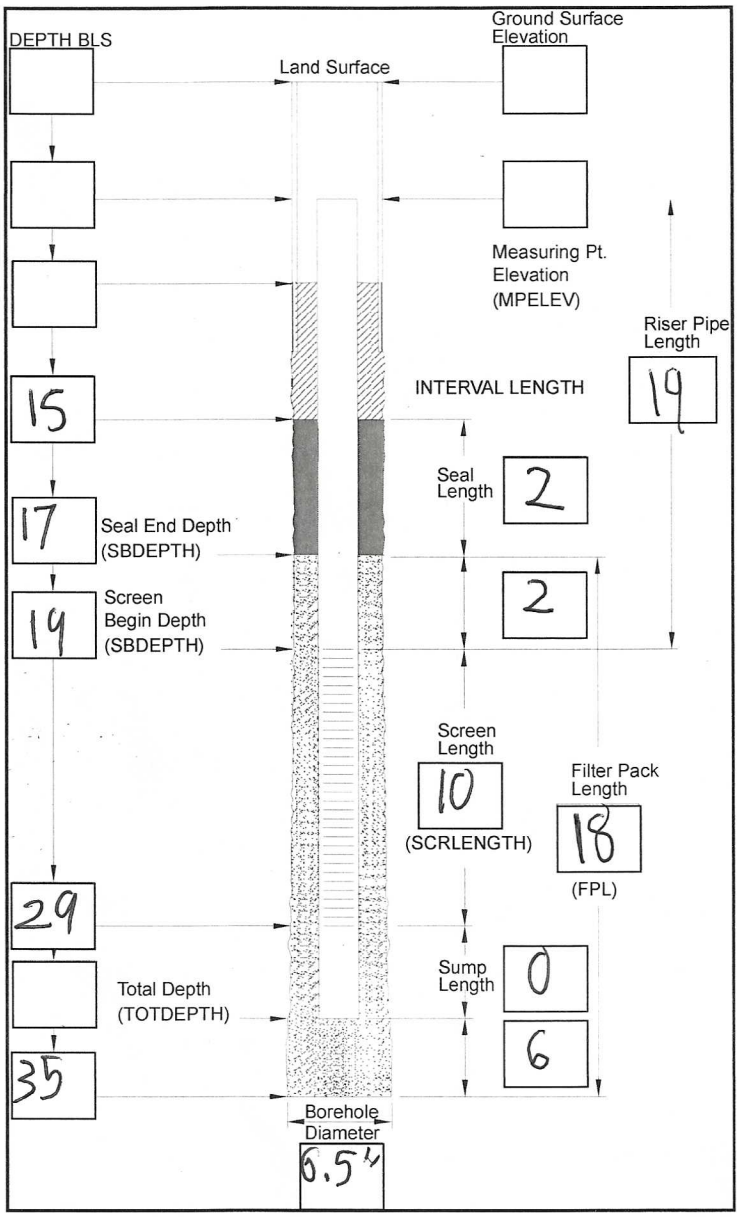
engineers | scientists | innovators

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-63I
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: Austin Jennings
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 1/29/21
Well Type: Flush Mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: _____
Surface Pad Size: _____ft x _____ft x _____ inches thick

Protective Casing or Cover - ☐ None
Diameter: _____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: _____ Weep Hole: ☐ Yes ☐ No

Grout – Date: _____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal - Date: 1/29/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: _____ ☐ Other: _____
Source/Brand: Cetco pure gold
Set-up/Hydration Time: _____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: _____
Source/Brand: Hollistun
Amount Used: 4 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: _____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: _____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Set-up/Hydration Time: _____

Total Water Volume During Construction
Introduced: _____gallons Recovered: _____ gallons

Comments:

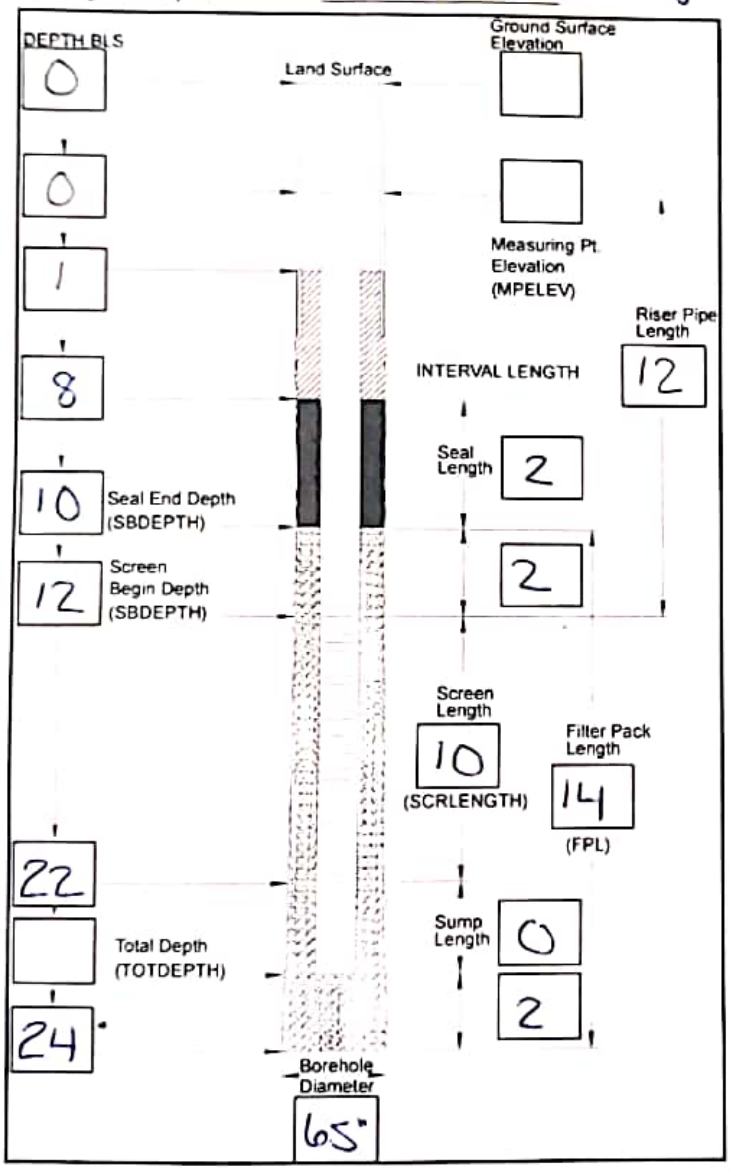
Geosyntec consultants

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-604S
Drilling Company: Cascade
Driller: Frank Marshall
Geologist/Engineer: K. Kimmey, A. Jennings
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 1/27/21
Well Type: flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: 1/26/21
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: 1/28
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/27
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco Pure gold
Set-up/Hydration Time: 1250
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Halliston
Amount Used: 2 ☑ bags ☐ pounds 50lb bags
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

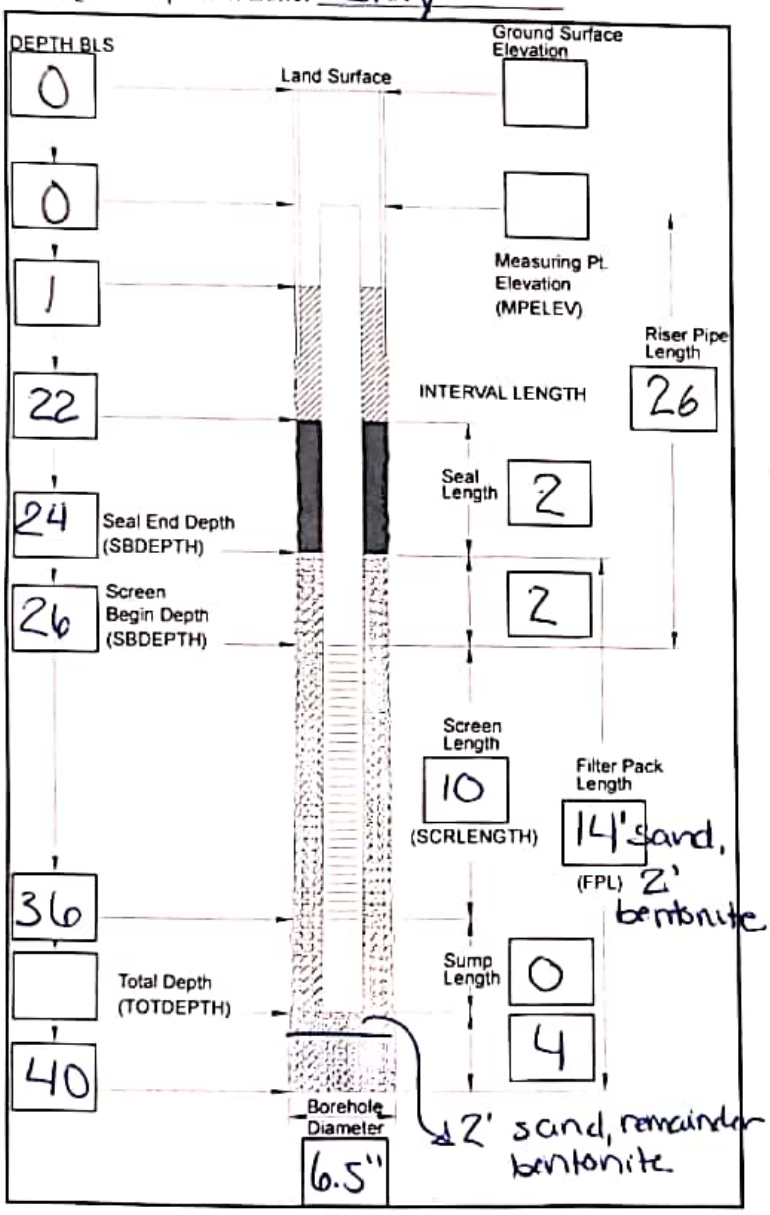
Geosyntec consultants

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-6LII
Drilling Company: Cascade
Driller: Frank + Marshall
Geologist/Engineer: K. Kimmey
Geologic Completion Zone: Clay

Site: Elmira, NY
Installation Method: sonic
Casing Installation Date: 1/26
Well Type: flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: 1/28/21
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: 1/28/21
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/26
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco pure gold
Set-up/Hydration Time: 1130
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Halliston
Amount Used: 3 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

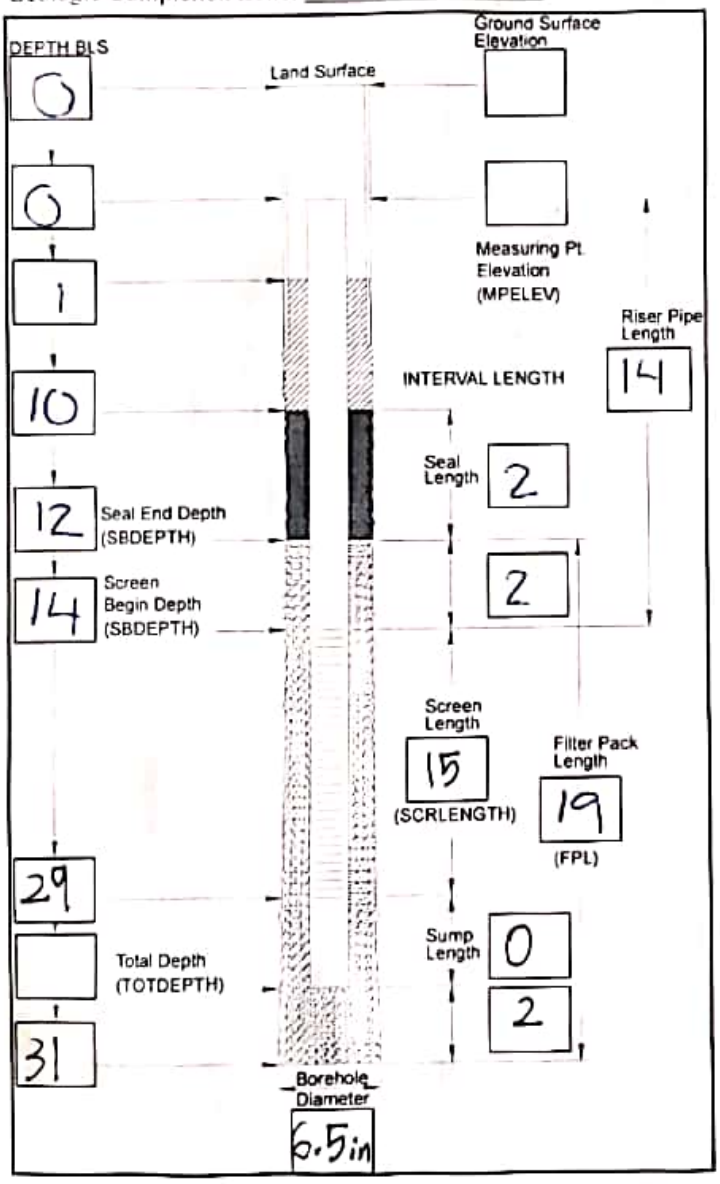
Geosyntec consultants

Well Construction Log -- Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW65
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: A. Jennings
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 1/26/21
Well Type: Flush Mount
Well Completion Method: ____



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: 1/27
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: 1/27
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/26
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco pureguard
Set-up/Hydration Time: 1230
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Halliston
Amount Used: ____ ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

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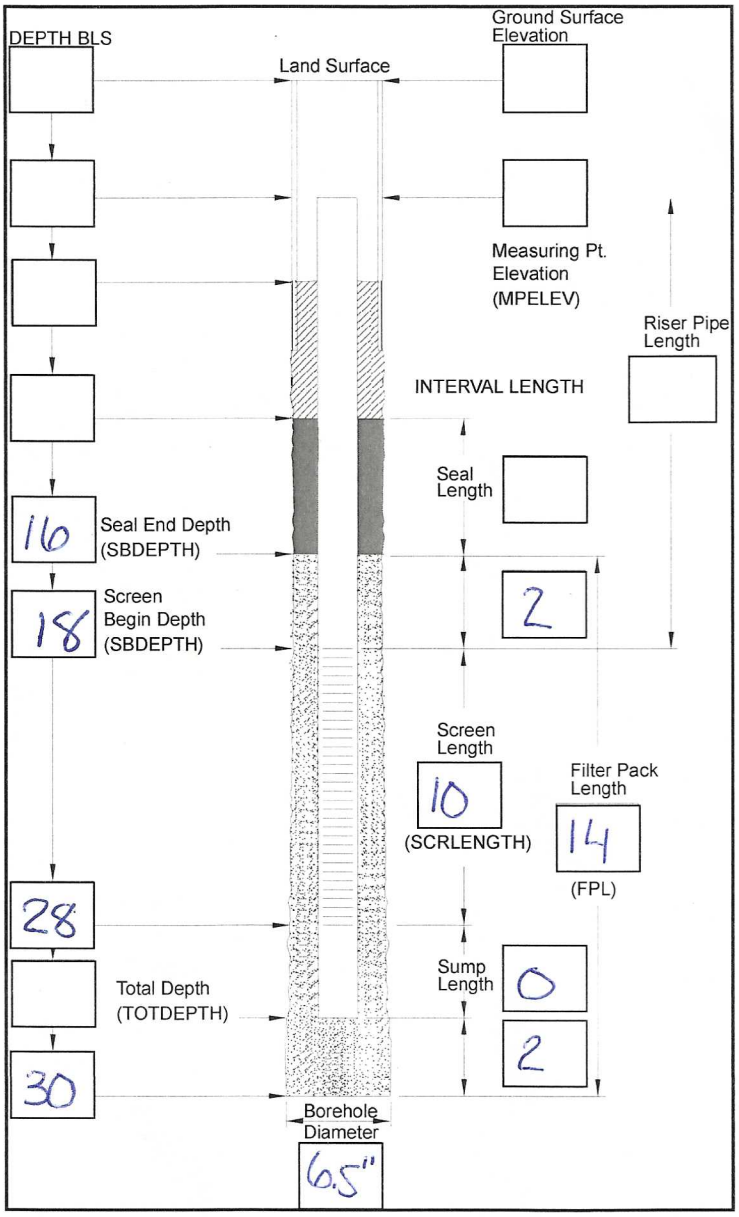
Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-6605
Drilling Company: Cascade
Driller: Frank + Marshall
Geologist/Engineer: K. Kimmey
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 1/28/21
Well Type: flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: _____
Surface Pad Size: _____ft x _____ft x _____ inches thick

Protective Casing or Cover - ☐ None
Diameter: _____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: _____ Weep Hole: ☐ Yes ☐ No

Grout – Date: _____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal - Date: 1/28
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: _____ ☐ Other: _____
Source/Brand: Geico pure gold
Set-up/Hydration Time: 1020
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Vol. Fluid Added: 20 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: _____
Source/Brand: Hallston
Amount Used: 3 ☑ bags ☐ pounds 50 lb bags
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: _____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: _____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____
Set-up/Hydration Time: _____

Total Water Volume During Construction
Introduced: _____gallons Recovered: _____ gallons

Comments:

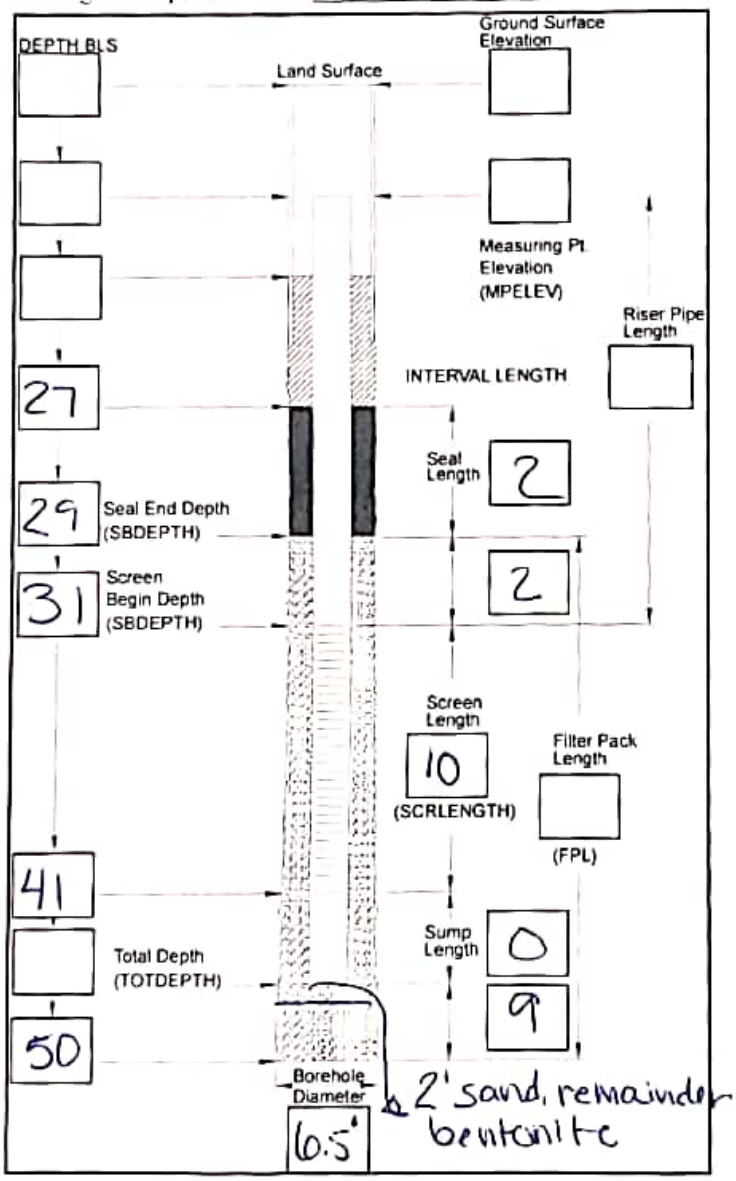
Geosyntec consultants

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-10DT
Drilling Company: Cascade
Driller: Frank and Marshall
Geologist/Engineer: K. Kimmey
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: sonic
Casing Installation Date: 1/27
Well Type: flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: ____
Surface Pad Size: ____ft x ____ft x ____ inches thick

Protective Casing or Cover - ☐ None
Diameter: ____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: ____ Weep Hole: ☐ Yes ☐ No

Grout – Date: ____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____

Seal - Date: 1/27
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco gold
Set-up/Hydration Time: 1615
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Hollston
Amount Used: ____ ☑ bags ☐ pounds 50lb bag
Placement Method: ☐ Pressure Tremie ☐ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Kaby

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Set-up/Hydration Time: 1330-1530

Total Water Volume During Construction
Introduced: ____gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

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BORING B3017A

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/17/21 **COMPLETED** 6/17/21
NORTHING 755239.306 ft **EASTING** 762015.639 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3017A

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
		SSHS-B3017A-SUB-10-12		SAND, with silt, dry, brown to white, poorly graded, abundant rock fragments (rip-rap)	0.2
12.5		SSHS-B3017A-SUB-12-14		SILTY SAND, dry, light brown, poorly graded, interlayered with rock fragments, no odor	16.4
15.0		SSHS-B3017A-SUB-14-16		SILTY SAND, dry, light brown, poorly graded, interlayered with rock fragments, no odor	0.2
17.5		SSHS-B3017A-SUB-16-18		GRAVEL, with sand, and silt, damp, dark brown, poorly graded	0
20.0				Bottom of borehole at 18.0 feet.	

10.0

12.5

15.0

17.5

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BORING B3884A

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/18/21 **COMPLETED** 6/18/21
NORTHING 755657.269 ft **EASTING** 761909.322 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES MS/MSD-44 at 12-14' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3884A

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5		SSHS-B3884A-SUB-12-14		SILTY SAND, with rock fragments, dry, brown, lense of rock fragments at 12.5-13' bgs	0
				Bottom of borehole at 14.0 feet.	

10.0

12.5

15.0

17.5

20.0

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BORING B3923

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/18/21 **COMPLETED** 6/18/21
NORTHING 755426.753 ft **EASTING** 761881.665 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES MS/MSD-43 at 18-20' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3923

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5		SSHS-B3923-SUB-12-14		SAND, with silt, with rock fragments, dry, light brown to brown, lense of rock from 13-13.25'	0
15.0		SSHS-B3923-SUB-14-16		SAND, with silt, with rock fragments, dry, light brown to brown, grades to silty sand	0
				GRAVEL, and cobbles, wet, dark brown	
17.5		SSHS-B3923-SUB-16-18		GRAVEL, with cobbles, and sand, some silt, wet, dark brown	0
		SSHS-B3923-SUB-18-20		Dark brown silty fine-grained SAND, with fine grained gravel, moist to wet	0
				GRAVEL, with cobbles	
20.0				SILTY SAND, wet	
		SSHS-B3923-SUB-20-22		GRAVEL, with cobbles	0.1
				SILTY CLAY, brown	

10.0 12.5 15.0 17.5 20.0

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BORING B3923

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				SILTY CLAY, brown *(continued)*	
				Bottom of borehole at 22.0 feet.	
22.5					
25.0					
27.5					
30.0					
32.5					

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BORING B3924

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/18/21 **COMPLETED** 6/18/21
NORTHING 755449.883 ft **EASTING** 761885.507 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES DUP-77 at 18-20' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3924

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5		SSHS-B3924-SUB-12-14		SILTY SAND, dry, brown to light brown, well graded	
				SILTY SAND, and rock fragments, moist, dark brown	0
15.0		SSHS-B3924-SUB-14-16		GRAVEL, and silty sand, wet, dark brown, grades to sand with silt at base	0
				SAND, with silt, wet, dark brown	
17.5		SSHS-B3924-SUB-16-18		SANDY SILT, wet, brown, lense of sand with silt present	0
		SSHS-B3924-SUB-18-20		SILTY SAND, with gravel, and cobbles, brown	0
20.0		SSHS-B3924-SUB-20-22		SILTY SAND, with gravel, and cobbles, brown, gravel content increases	0

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BORING B3924

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				SILTY SAND, with gravel, and cobbles, brown, gravel content increases *(continued)*	
				Bottom of borehole at 22.0 feet.	
22.5					
25.0					
27.5					
30.0					
32.5					

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BORING B3925

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/18/21 **COMPLETED** 6/18/21
NORTHING 755461.201 ft **EASTING** 761911.295 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES DUP-78 at 12-14' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

PAULS BH / TP / WELL - DEFAULT.GDT - 6/29/21 14:02 - M:\GINT\PROJECTS\ELMIRA BORING LOGS 2021\ELMIRA - MN0832_APR2021.GPJ

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BORING B3925

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5		SSHS-B3925-SUB-12-14		SILTY SAND, with rock fragments, moist, brown	0
				SILTY SAND, with rock fragments, dry, brown	
15.0		SSHS-B3925-SUB-14-16		SAND, with silt, brown, clayey gravel 15.75-16'	0.1
		SSHS-B3925-SUB-16-18		CLAYEY GRAVEL, wet, brown to gray, rock fragments from 17.33-18'	0
17.5				CLAYEY GRAVEL, wet, brown to gray	
		SSHS-B3925-SUB-18-20			0
20.0				CLAYEY GRAVEL, wet, brown to gray	
		SSHS-B3925-SUB-20-22		CLAYEY GRAVEL, wet, brown	0

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BORING B3925

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				CLAYEY GRAVEL, wet, brown *(continued)*	
				Bottom of borehole at 22.0 feet.	
22.5					
25.0					
27.5					
30.0					
32.5					

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BORING B3926

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/18/21 **COMPLETED** 6/18/21
NORTHING 755444.698 ft **EASTING** 761937.95 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3926

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5		SSHS-B3926-SUB-12-14		SILTY SAND, with gravel, and rock fragments, moist, brown	0
15.0		SSHS-B3926-SUB-14-16		SILTY SAND, with gravel, and rock fragments, moist, brown	0
17.5		SSHS-B3926-SUB-16-18		GRAVEL, and silty sand, wet, brown, poorly graded sand and cobble lenses, clay at base	0
		SSHS-B3926-SUB-18-20		GRAVEL, and silty sand, wet, clay and cobbles from 18.5-20'	0
20.0				CLAY, with cobbles, saturated, brown	
		SSHS-B3926-SUB-20-22		CLAY, moist, gray	0

10.0 12.5 15.0 17.5 20.0

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BORING B3926

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				CLAY, moist, gray *(continued)*	
				Bottom of borehole at 22.0 feet.	
22.5					
25.0					
27.5					
30.0					
32.5					

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BORING B3927

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/17/21 **COMPLETED** 6/17/21
NORTHING 755235.61 ft **EASTING** 761996.054 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES DUP-74 at 4-6' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0.0				No sample collected	
2.5					
				CLAYEY SAND, rock fragments, brown	
5.0		SSHS-B3927-SUB-4-6		SAND, with silt, with rock fragments, dry, brown, fill	2.7
				SAND, with silt, with rock fragments, dry, brown, fill	
		SSHS-B3927-SUB-6-8			9.7
7.5				SAND, with silt, with rock fragments, dry, brown, fill	
		SSHS-B3927-SUB-8-10			0

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BORING B3927

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
		SSHS-B3927-SUB-10-12		SILTY SAND, rock fragments, and cobbles, moist, brown, fill	0.2
12.5		SSHS-B3927-SUB-12-14		SILTY SAND, rock fragments, and cobbles, moist, brown, increased gravel content, damp at base, fill	0.5
				SILTY SAND, rock fragments, and cobbles, damp, brown, fill	
15.0		SSHS-B3927-SUB-14-16		GRAVEL, and silty sand, wet, dark brown	0.1
		SSHS-B3927-SUB-16-18		GRAVEL, and silty sand, wet, dark brown	0
17.5					
				Bottom of borehole at 18.0 feet.	
20.0					

10.0 12.5 15.0 17.5

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BORING B3928

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/18/21 **COMPLETED** 6/18/21
NORTHING 755276.602 ft **EASTING** 762032.239 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES MS/MSD-42 at 14-16' (P); DUP-75 at 6-8' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0.0				No sample collected	
2.5					
5.0		SSHS-B3928-SUB-4-6		CLAYEY SAND, rock fragments, damp, dark brown, roots	0
				SAND, with rock fragments, dry, light brown, poorly graded, fill	
		SSHS-B3928-SUB-6-8		SAND, with silt, with rock fragments, and gravel, dry, brown to light brown, poorly graded	0
7.5					
				SAND, with silt, with rock fragments, and gravel, dry, brown to light brown, poorly graded	
		SSHS-B3928-SUB-8-10		SAND, with silt, rock fragments, dry, brown, poorly graded	0

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BORING B3928

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
		SSHS-B3928-SUB-10-12		SAND, with silt, with rock fragments, dry, brown, poorly graded, interlayered silty sand	0
12.5		SSHS-B3928-SUB-12-14		SAND, with silt, with rock fragments, dry, brown, poorly graded, interlayered silty sand, rock fragments increase near base	0
15.0		SSHS-B3928-SUB-14-16		CLAYEY SAND, moist, brown, poorly graded, gravel at base (2")	0
17.5		SSHS-B3928-SUB-16-18		GRAVEL, some sand, with silt, coarse grained, wet, dark brown, poorly graded	0
20.0				Bottom of borehole at 18.0 feet.	

10.0

12.5

15.0

17.5

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BORING B3929

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/17/21 **COMPLETED** 6/17/21
NORTHING 755256.179 ft **EASTING** 761975.756 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES DUP-76 at 4-6' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0.0				No sample collected	
2.5					
				SAND, with silt, with rock fragments, brown	
5.0		SSHS-B3929-SUB-4-6		SILTY SAND, moist, brown	0
				SILTY SAND, moist, brown	
		SSHS-B3929-SUB-6-8		SILTY SAND, rock fragments, dry, light brown	0
7.5					
				SILTY SAND, rock fragments, dry, light brown	
		SSHS-B3929-SUB-8-10		CLAYEY SAND, moist, brown, rock fragments at base (4")	0

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BORING B3929

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
10.0		SSHS-B3929-SUB-10-12		CLAYEY SAND, and rock fragments, moist, brown	0.1
12.5		SSHS-B3929-SUB-12-14		SAND, with silt, and rock fragments, dry, brown, sand coarse grained	2.4
				SAND, with silt, and rock fragments, dry, brown, sand coarse grained	
15.0		SSHS-B3929-SUB-14-16		GRAVEL, and sand, with clay, wet, brown, gravel medium grained	0.1
17.5		SSHS-B3929-SUB-16-18		SAND, with clay, trace gravel, dark brown, grades to clayey sand	0.1
20.0				Bottom of borehole at 18.0 feet.	

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BORING B3930A

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/17/21 **COMPLETED** 6/17/21
NORTHING 754740.87 ft **EASTING** 761668.67 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES DUP-73 at 8-10' (V)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					
		SSHS-B3930A-SUB-8-10		SAND, with silt, with gravel, and rock fragments, dry, light brown to brown, poorly graded	0.1

Bottom of borehole at 10.0 feet.

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BORING B3931

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/17/21 **COMPLETED** 6/17/21
NORTHING 754746.788 ft **EASTING** 761679.273 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR ---
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0		SSHS-B3931-SUB-4-6		SILTY SAND, with rock fragments, moist, brown, clayey sand at base (~1"), fill	0.2
7.5		SSHS-B3931-SUB-6-8		SILTY SAND, with rock fragments, and gravel, moist, brown, grades to poorly graded sand with silt	0.3
		SSHS-B3931-SUB-8-10		SILTY SAND, trace chert, and rock fragments, and gravel, damp, brown	0.1

0.0 2.5 5.0 7.5

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BORING B3931

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
10.0		SSHS-B3931-SUB-10-12		SILTY SAND, trace chert, and rock fragments, and gravel, damp, brown	0.2
12.5		SSHS-B3931-SUB-12-14		SAND, with silt, with rock fragments, dry, light brown, poorly graded	0
				Bottom of borehole at 14.0 feet.	
15.0					
17.5					
20.0					

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BORING B3932

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/17/21 **COMPLETED** 6/17/21
NORTHING 754734.755 ft **EASTING** 761661.358 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0		SSHS-B3932-SUB-4-6		SILTY SAND, with gravel, moist, brown	0.8
7.5		SSHS-B3932-SUB-6-8		SILTY SAND, with gravel, moist, brown	0.3
		SSHS-B3932-SUB-8-10		SILTY SAND, with gravel, moist, brown ROCK FRAGMENTS with silty sand	0.1

0.0 2.5 5.0 7.5

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BORING B3932

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
10.0				SILTY SAND	
		SSHS-B3932-SUB-10-12		SAND, with silt, with gravel, poorly graded	0
				SILTY SAND, with gravel, dark brown	
12.5		SSHS-B3932-SUB-12-14			0.2
				Bottom of borehole at 14.0 feet.	
15.0					
17.5					
20.0					

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BORING B3933

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/17/21 **COMPLETED** 6/17/21
NORTHING 754750.869 ft **EASTING** 761665.637 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0		SSHS-B3933-SUB-4-6		SILTY SAND, with gravel, and cobbles, damp, dark brown	0
				SILTY SAND, with gravel, and cobbles, damp, dark brown	
7.5		SSHS-B3933-SUB-6-8		CLAYEY SAND, damp, dark brown, gravel lenses	0
		SSHS-B3933-SUB-8-10		CLAYEY SAND, moist, dark brown, gravel lenses	0

0.0
2.5
5.0
7.5

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BORING B3933

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
		SSHS-B3933-SUB-10-12		SAND, with silt, moist, dark brown, poorly graded	0
12.5		SSHS-B3933-SUB-12-14		CLAYEY SAND, dark brown, with gravel and rock lenses	0
				Bottom of borehole at 14.0 feet.	

10.0

12.5

15.0

17.5

20.0

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BORING B3934

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/17/21 **COMPLETED** 6/17/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0		SSHS-B3934-SUB-4-6		SILTY SAND, with gravel, and rock fragments, moist, brown, fill	33.2
7.5		SSHS-B3934-SUB-6-8		SILTY SAND, with gravel, and rock fragments, moist, brown, fill, interlayers of poorly graded silt with sand	17.6
		SSHS-B3934-SUB-8-10		SILTY SAND, with gravel, and rock fragments, moist, brown, fill, interlayers of poorly graded silt with sand	1.6

0.0

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BORING B3934

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
10.0				SILTY SAND, with gravel, and rock fragments, moist, brown, fill, interlayers of poorly graded silt with sand	
		SSHS-B3934-SUB-10-12		SILTY SAND, brown	8.5
				SAND, with silt, with fine grained gravel, brown	
12.5				Brown interlayered SAND with silty and silty sand, with rock fragments, with gravel, fill	
		SSHS-B3934-SUB-12-14			3.4
				Bottom of borehole at 14.0 feet.	
15.0					
17.5					
20.0					

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BORING B3935

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/17/21 **COMPLETED** 6/17/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES MS/MSD-41 at 4-6' (V); DUP-72 at 4-6' (V)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0		SSHS-B3935-SUB-4-6		CLAYEY SAND, with rock fragments, with gravel, moist, orange to brown, roots, fill	0.6
7.5		SSHS-B3935-SUB-6-8		SAND, with silt, with rock fragments, light brown, poorly graded, fill	0.2
		SSHS-B3935-SUB-8-10		SAND, with silt, with rock fragments, light brown, poorly graded, fill	0.3

Bottom of borehole at 10.0 feet.

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BORING B3021A

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/17/21 **COMPLETED** 5/17/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY PS **CHECKED BY** DRAFT
NOTES MS/MSD-22 at 10-12' (P, V, S, M, EC); DUP-42 at 12-14' (P, V, S, M, EC)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
				Medium dense, SILT, some medium to coarse grained gravel, moist, black to brown, well graded, subrounded gravel	
5.0		SSHS-B3021-SUB-4-6		Rock fragments to well graded GRAVEL and fine to medium grained sand, medium dense, subrounded gravel, moist	0
				Medium dense, SAND, some silt, and medium grained gravel, damp, brown and black, moderately graded, subrounded gravel, fine grained sand	
				Concrete fragments to fine grained SAND with gravel, well graded, subangular gravel, dry	
		SSHS-B3021-SUB-6-8			0
7.5					
				SAND, with medium grained gravel, sand fine to coarse grained, damp, brown, subangular gravel	
		SSHS-B3021-SUB-8-10		Medium dense, SAND, with medium to coarse grained gravel, sand fine to medium grained, moist, brown, subrounded to subangular gravel	0

0.0 2.5 5.0 7.5

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BORING B3021A

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
10.0		SSHS-B3021-SUB-10-12		Dense, FINE GRAINED SAND, with medium to coarse grained gravel, and rock fragments, damp, brown to gray, well graded, subangular gravel	0
12.5		SSHS-B3021-SUB-12-14		Dense, FINE GRAINED SAND, with medium to coarse grained gravel, and rock fragments, damp, brown to gray, well graded, subangular gravel	0.3
15.0		SSHS-B3021-SUB-14-16		Dense, FINE GRAINED SAND, with medium to coarse grained gravel, and rock fragments, damp, brown to gray, well graded, subangular gravel	0.4
		SSHS-B3021-SUB-16-18		Dense, FINE GRAINED SAND, with medium to coarse grained gravel, and rock fragments, damp, brown to gray, well graded, subangular gravel	
17.5				Medium dense, GRAVEL, and fine to medium grained sand, and rock fragments, saturated, well graded, subrounded to subangular gravel, medium to coarse grained gravel	0.4
		SSHS-B3021-SUB-18-20		GRAVEL, some medium grained sand, saturated, gray, well graded, well rounded to subrounded gravel	0.1
20.0				Bottom of borehole at 20.0 feet.	

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BORING B3022A

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/18/21 **COMPLETED** 5/18/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY JMW **CHECKED BY** DRAFT
NOTES MS/MSD-25 at 12-14' (P, V, S, M, EC)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
				Dense, SILTY FINE GRAINED SAND, moist, brown and blackish brown	
				Soft, CLAY, some silt, and fine grained sand, trace gravel, wet, orange to brown	
5.0		SSHS-B3022A-SUB-4-6			0
				Loose, FINE GRAINED SAND, trace cobbles, moist, brown	
				Brown poorly graded SAND with rounded cobbles, moist, loose, black silt lense (~1"), brown sandy clay lense at 6.2', possible fill	
		SSHS-B3022A-SUB-6-8			0
7.5					
				Soft, SILTY SAND, little silt, some cobbles, some gravel, moist, orange to brown, trace clay, rounded cobbles and gravel, rock fragments (fill)	
		SSHS-B3022A-SUB-8-10			0

0.0 2.5 5.0 7.5

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BORING B3022A

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
		SSHS-B3022A-SUB-10-12		Loose, FINE GRAINED SAND, trace silt, with cobbles, damp, brown, rock fragments (fill)	0
				Medium stiff, FINE GRAINED SAND, some silt, trace clay, wet, brown	
12.5		SSHS-B3022A-SUB-12-14		Medium stiff, FINE GRAINED SAND, some silt, trace clay, moist, brown, increasing gravel content (rounded, coarse grained)	0
				Medium stiff, FINE GRAINED SAND, some silt, trace clay, wet, dark brown, 2" well graded sand lense at 13.9'	
15.0		SSHS-B3022A-SUB-14-16		Medium stiff, FINE GRAINED SAND, some silt, trace clay, wet, dark brown	0
				Transitions to COBBLES (rock fragments)	
17.5		SSHS-B3022A-SUB-16-18		Very loose, SAND, saturated, brown, well graded	0
20.0				Bottom of borehole at 18.0 feet.	

10.0 12.5 15.0 17.5

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BORING B3685

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/17/21 **COMPLETED** 5/17/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY SP **CHECKED BY** DRAFT
NOTES MS/MSD-08 at 6-8' (P, V, S, M, T, EC); DUP-108 at 8-10' ((P, V, S, M, T, EC); DUP-109 at 12-14' ((P, V, S, M, T, EC)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
		SSHS-B3685-SUB-6-8		Dense, SAND, moist, brown, poorly graded, well rounded, medium grained sand	0.9
7.5					
		SSHS-B3685-SUB-8-10		Dense, SAND, moist, brown, poorly graded, well rounded, medium grained sand	0.3

0.0 2.5 5.0 7.5

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BORING B3685

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
		SSHS-B3685-SUB-10-12		Dense, SAND, moist, brown, poorly graded, well rounded, medium grained sand	0.1
12.5		SSHS-B3685-SUB-12-14		Medium dense, SANDY GRAVEL, sand fine to coarse grained, damp, brown and grayish, subrounded to subangular gravel	0.3
15.0		SSHS-B3685-SUB-14-16		Medium dense, SANDY GRAVEL, sand fine to coarse grained, damp, brown and grayish, subrounded to subangular gravel, slight odor	3
17.5		SSHS-B3685-SUB-16-18		Loose, SANDY GRAVEL, sand fine to coarse grained, wet, gray, subangular gravel, odor	
20.0		SSHS-B3685-SUB-18-20		Loose, SANDY GRAVEL, sand fine to coarse grained, wet, gray, subangular gravel, odor	72.4
		SSHS-B3685-SUB-20-22		Loose, FINE GRAINED SAND, trace medium grained sand, trace fine grained gravel, trace silt, wet, dark brown, slight odor	4.3

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BORING B3685

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected/missing	
22.5					
		SSHS-B3685-SUB-24-26		Loose, SAND, trace fine to coarse grained gravel, trace silt, wet, dark brown, well rounded gravel	1.4
25.0					
		SSHS-B3685-SUB-26-28		Loose, SAND, trace fine to coarse grained gravel, trace silt, wet, dark brown, well rounded gravel	1
27.5					
		SSHS-B3685-SUB-28-30		Loose, SAND, trace fine to coarse grained gravel, trace silt, saturated, dark brown, well rounded gravel	1.2
30.0					
		SSHS-B3685-SUB-30-32		Loose, SAND, trace fine to coarse grained gravel, trace silt, saturated, dark brown, well rounded gravel, trace clay near bottom	1
32.5					
		SSHS-B3685-SUB-32-34		Loose, SAND, trace fine to coarse grained gravel, trace silt, saturated, dark brown, well rounded gravel, no clay	0.5

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CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				Loose, SAND, trace fine to coarse grained gravel, trace silt, saturated, dark brown, well rounded gravel, no clay *(continued)*	
				Loose, SAND, trace fine to coarse grained gravel, trace silt, saturated, dark brown, well rounded gravel, trace silt from 35.3-36'	
35.0		SSHS-B3685-SUB-34-36			0.8
				Loose, SAND, trace fine to coarse grained gravel, trace silt, saturated, dark brown, well rounded gravel, coarsens toward base adn abruptly transitions to clay	
		SSHS-B3685-SUB-36-38			0.2
37.5				Medium stiff, CLAY, trace silt, wet, brown, clean	
				Medium stiff, CLAY, trace silt, wet, brown, clean	
		SSHS-B3685-SUB-38-40		Medium stiff, CLAY, trace silt, damp, gray to brown, clean, platy	0.3
40.0				Bottom of borehole at 40.0 feet.	
42.5					
45.0					

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BORING B3688

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/17/21 **COMPLETED** 5/17/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY JMW **CHECKED BY** DRAFT
NOTES

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
		SSHS-B3688-SUB-6-8		Medium dense, SAND, with gravel, and rock fragments, and concrete, sand medium grained, damp, brown, subangular gravel, trace silt, fill	0
7.5					
		SSHS-B3688-SUB-8-10		Dense, SAND, with gravel, and rock fragments, and concrete, sand medium grained, damp, brown, subangular gravel, 6 silty sand layers, fill	0.1

0.0 2.5 5.0 7.5

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BORING B3688

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
		SSHS-B3688-SUB-10-12		Medium dense, SAND, with gravel, and rock fragments, trace silt, sand fine to medium grained, damp, brown, rounded gravel, rock fragments in 1-2" layers, fill	3.5
12.5		SSHS-B3688-SUB-12-14		Medium dense, SAND, with gravel, and rock fragments, some silt, sand fine to medium grained, damp, brown, subangular to rounded gravel, rock fragments in 1-2" layers (fill), slight odor	0
15.0		SSHS-B3688-SUB-14-16		SAND, with gravel, trace silt, sand medium to coarse grained, wet, brown, well graded, slight odor	0.2
17.5		SSHS-B3688-SUB-16-18		SAND, with gravel, and cobbles, some clay, saturated, dark brown to gray, well graded, strong odor	19.5
		SSHS-B3688-SUB-18-20		SAND, with gravel, trace clay, sand medium to coarse grained, moist, gray, well graded, rounded, odor	87.2
20.0		SSHS-B3688-SUB-20-22		SAND, with gravel, trace clay, sand medium to coarse grained, moist, gray, well graded, rounded, odor	254

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CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
22.5		SSHS-B3688-SUB-22-24		SAND, with gravel, trace clay, sand medium to coarse grained, moist, gray, well graded, rounded, odor	6.1
				Loose, SAND, medium grained, saturated, brown, poorly graded, well rounded	
25.0		SSHS-B3688-SUB-24-26		Loose, SAND, medium grained, saturated, brown, poorly graded, well rounded	5.3
27.5		SSHS-B3688-SUB-26-28		Loose, SAND, medium grained, saturated, brown, poorly graded, well rounded	32.8
		SSHS-B3688-SUB-28-30		Loose, SAND, medium grained, saturated, brown, poorly graded, well rounded	27.6
30.0		SSHS-B3688-SUB-30-32		Loose, SAND, medium grained, wet, brown, poorly graded, well rounded	3.7
32.5		SSHS-B3688-SUB-32-34		Loose, SAND, medium grained, wet, brown, poorly graded, well rounded, transitions to poorly sorted, saturated, trace rounded gravel (coarse)	2.9

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CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington
PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				Loose, SAND, medium grained, wet, brown, poorly graded, well rounded, transitions to poorly sorted, saturated, trace rounded gravel (coarse) *(continued)*	
35.0		SSHS-B3688-SUB-34-36		SAND, trace gravel, coarse grained, wet, brown, well graded, rounded gravel	1
37.5		SSHS-B3688-SUB-36-38		SAND, trace gravel, coarse grained, saturated, brown, well graded, rounded gravel, gravel drops out and transitions to well sorted at 37'	2.2
40.0		SSHS-B3688-SUB-38-40		SAND, medium grained, saturated, brown, poorly graded	7.3
		SSHS-B3688-SUB-40-42		SAND, medium grained, saturated, brown, poorly graded	
42.5		SSHS-B3688-SUB-42-44		Medium stiff, SILTY CLAY, moist, brown to gray, medium plasticity, brown 42'-42.83', gray 42.83'-44'	0
45.0		SSHS-B3688-SUB-44-46		Medium stiff, SILTY CLAY, moist, gray, medium plasticity	0

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BORING B3688

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				Medium stiff, SILTY CLAY, moist, gray, medium plasticity *(continued)*	
				Bottom of borehole at 46.0 feet.	
47.5					
50.0					
52.5					
55.0					

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BORING B3882

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/10/21 **COMPLETED** 5/10/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY AS **CHECKED BY** DRAFT
NOTES MS/MSD-1 at 23-25' (P); DUP-1 at 14-16' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3882

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5					
15.0		SSHS-B3882-SUB-14-16		Dense, SANDY GRAVEL, with silt, sand fine to coarse grained, moist, brownish gray, moderate to well graded, subrounded to subangular gravel	1.2
17.5		SSHS-B3882-SUB-16-18		Medium dense, GRAVEL, with medium to coarse grained sand, wet, brown, moderate to well graded, subrounded to subangular gravel	1.2
20.0		SSHS-B3882-SUB-18-20		GRAVEL, with medium to coarse grained sand, trace silt, wet, brown, moderate to well graded, subrounded to subangular gravel, loose to medium dense	1.1
		SSHS-B3882-SUB-20-22		GRAVEL, with medium to coarse grained sand, wet, grayish black, moderate to well graded, subrounded to subangular gravel, loose to medium dense	1.1

10.0 12.5 15.0 17.5 20.0

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BORING B3882

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
22.5		SSHS-B3882-SUB-22-23		Loose, GRAVEL, with medium to coarse grained sand, moist, brown, moderate to poorly graded, subrounded gravel	0.8
				CLAY, moist, brownish gray, high plasticity, medium stiff to stiff	
		SSHS-B3882-SUB-23-25		CLAY, moist, brownish gray, high plasticity, medium stiff to stiff	0.8
25.0				Stiff, CLAY, moist, gray, high plasticity	
		SSHS-B3882-SUB-25-27		Stiff, CLAY, moist, gray, high plasticity	0

Bottom of borehole at 27.0 feet.

27.5

30.0

32.5

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BORING B3883

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/18/21 **COMPLETED** 5/19/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES MS/MSD at 28-30' (P, V, S, M, EC); DUP-2 at 26-28' (P, V, S, M, EC); DUP-3 at 28-30' (P, V, S, M, EC)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				Fill/gravel	
		SSHS-B3883-SUB-0.17-2		Roots, dark brown sandy CLAY and fill, rock fragments, soft, dry, odor (manure)	2.9
2.5		SSHS-B3883-SUB-2-4		Orange-brown to black sandy CLAY, fill, trace coarse rounded grave, layers of loose rock fragments, soft, dry	0.2
5.0		SSHS-B3883-SUB-4-6		Brown poorly graded fine grained SAND with trace silt and some angular fine to coarse grained grave, lenses of rock fragments (fill), loose	0.3
7.5		SSHS-B3883-SUB-6-8		Brown poorly graded fine grained SAND with trace silt and some angular fine to coarse grained grave, lenses of rock fragments (fill), loose	0.5
		SSHS-B3883-SUB-8-10		Brown poorly graded fine grained SAND with trace silt and some angular fine to coarse grained grave, lenses of rock fragments (fill), loose, trace clay near base, possible odor	3.4

0.0 2.5 5.0 7.5

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BORING B3883

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
		SSHS-B3883-SUB-10-12		Brown poorly graded fine grained SAND with trace silt and some angular fine to coarse grained grave, lenses of rock fragments (fill), loose, trace clay near base, possible odor	0.4
12.5		SSHS-B3883-SUB-12-14		Brown poorly graded fine grained SAND with trace silt and some angular fine to coarse grained grave, lenses of rock fragments (fill), loose, trace clay near base, possible odor	0.1
				Brown, poorly graded SAND, trace fine grained rounded gravel, and clay, loose, moist	
				Brown, poorly graded SAND, trace fine grained rounded gravel, and clay, loose, moist	
15.0		SSHS-B3883-SUB-14-16		Dark brown poorly sorted SAND with subrounded gravel and trace clay and cobbles, firm, wet	0.3
17.5		SSHS-B3883-SUB-16-18		Dark brown poorly sorted SAND with subrounded gravel and trace clay and cobbles, firm, wet, several rock fragment lenses, saturated	0
		SSHS-B3883-SUB-18-20		Dark brown, rounded, coarse grained GRAVEL, with poorly sorted sand, and trace clay, loose, wet	0.3
				Dark brown, rounded, coarse grained GRAVEL, with poorly sorted sand, and trace clay, loose, saturated, clay content increases to some from 19.5' (gravel with clayey sand)	
20.0		SSHS-B3883-SUB-20-22		Brown rounded to subangular coarse grained GRAVEL, some well graded sand and trace clay, loose, saturated, cobbles present, drilling stopped at 22' on 10/May, restarted and sampled on 19/May	0

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BORING B3883

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
22.5				Brown angular COBBLES to well rounded fine to coarse grained gravel with well graded sand	
		SSHS-B3883-SUB-22-24		Brown well graded sand with above gravel and trace clay, loose, saturated	0
				Brown well graded sand with above gravel and trace clay, loose, saturated, gravel lenses	
25.0		SSHS-B3883-SUB-24-26			0
				Brown well graded SAND, some fine grained angular to rounded gravel and trace clay, loose, saturated, clay included toward base	
		SSHS-B3883-SUB-26-28			0
27.5				Gray fat CLAY, stiff, damp to dry	
		SSHS-B3883-SUB-28-30			0
30.0				Gray fat CLAY, stiff, damp to dry	
		SSHS-B3883-SUB-30-32			
				Bottom of borehole at 32.0 feet.	
32.5					

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BORING B3884

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/11/21 **COMPLETED** 5/11/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY S. Perdziola **CHECKED BY** DRAFT
NOTES MS/MSD-3 at 16-18' (P); DUP-4 at 14-16' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington
PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
10.0				No sample collected *(continued)*	
12.5					
15.0		SSHS-B3884-SUB-14-16		Dense, SANDY GRAVEL, with silt, sand fine to coarse grained, brown and gray, well graded, subrounded to subangular gravel, dry 14-14.5', wet 14.5-16'	6.1
17.5		SSHS-B3884-SUB-16-18		Loose, GRAVEL, with coarse grained sand, wet, gray and brown, poorly graded, subrounded gravel	5.4
20.0		SSHS-B3884-SUB-18-20		Medium dense, SAND, with gravel, sand fine to coarse grained, saturated, brown, moderately graded, subrounded to rounded gravel	2.3
		SSHS-B3884-SUB-20-22		Loose, GRAVEL, with fine to coarse grained sand, and silt, wet, brown, moderately graded, subrounded to rounded gravel	1.9

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BORING B3884

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
22.5		SSHS-B3884-SUB-22-24		Loose, GRAVEL, with coarse grained sand, wet, brown, moderately graded, subrounded to rounded gravel	3.1
		SSHS-B3884-SUB-24-25		Loose, GRAVEL, with coarse grained sand, wet, brown, moderately graded, subrounded to rounded gravel	0.1
25.0		SSHS-B3884-SUB-25-27		Very soft, SILTY CLAY, wet, brown, semi-plastic; gray 26.875'-27'	0.1
27.5		SSHS-B3884-SUB-27-29		Very soft, SILTY CLAY, wet, gray, semi-plastic	0
				Bottom of borehole at 29.0 feet.	
30.0					
32.5					

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BORING B3886

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/18/21 **COMPLETED** 5/18/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY S. Perdziola **CHECKED BY** DRAFT
NOTES MS/MSD-05 at 0-2' (P); DUP-6 at 22-24' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
		SSHS-B3886-SUB-0-2		Loose, SILTY SAND, with gravel, sand fine to coarse grained, damp, brown, well graded, angular gravel, fill	0.2
2.5		SSHS-B3886-SUB-2-4		Medium dense, SILTY SAND, trace gravel, sand fine to coarse grained, damp, brown, moderate to well graded, subangular gravel, fill	0.1
5.0		SSHS-B3886-SUB-4-6		Medium dense, SILTY SAND, trace gravel, sand fine to coarse grained, damp, brown, moderate to well graded, subangular gravel, fill	1.1
7.5		SSHS-B3886-SUB-6-8		Medium dense, SILTY SAND, trace gravel, dry, brown and light tan, well graded, subangular to angular gravel, fill	0.7
		SSHS-B3886-SUB-8-10		Medium dense, SILTY SAND, trace gravel, dry, brown and light tan, well graded, subangular to angular gravel, fill	1

0.0 2.5 5.0 7.5

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BORING B3886

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
		SSHS-B3886-SUB-10-12		Medium dense, SILTY SAND, trace gravel, dry, brown and light tan, well graded, subangular to angular gravel, fill	0.9
12.5		SSHS-B3886-SUB-12-14		Loose, SANDY GRAVEL, trace silt, damp, gray and light brown, well graded, subangular gravel, crushed brick from 13.2-13.5', wet at 14'	0.2
				Loose, GRAVEL, with fine to coarse grained sand, dry, brown and tan, well graded, subangular to angular gravel	
15.0		SSHS-B3886-SUB-14-16		Medium dense, GRAVEL, with fine to coarse grained sand, wet, brown, well graded, subrounded gravel	0.1
		SSHS-B3886-SUB-16-18		Medium dense, SILTY SAND, with gravel, saturated, brown, well graded, subrounded to subangular gravel	0
17.5				Medium dense, SILTY SAND, with gravel, saturated, brown, well graded, subrounded to subangular gravel	
		SSHS-B3886-SUB-18-20		Dense, SAND, trace gravel, sand fine to medium grained, saturated, brown, poorly graded, subrounded gravel	0
20.0				Dense, SAND, trace gravel, sand fine to medium grained, saturated, brown, poorly graded, subrounded gravel	
		SSHS-B3886-SUB-20-22			0

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BORING B3886

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				Loose, GRAVEL, with coarse grained sand, trace silt, wet, brown, moderately graded, rounded gravel *(continued)*	
22.5				Loose, GRAVEL, with coarse grained sand, trace silt, wet, brown, moderately graded, rounded gravel	
		SSHS-B3886-SUB-22-24			0.3
				Loose, SAND, fine to coarse grained, wet, brown, poorly graded, well rounded	
25.0		SSHS-B3886-SUB-24-26			0.2
				Soft, SILTY CLAY, wet, brown, plastic	
		SSHS-B3886-SUB-26-28		Soft, SILTY CLAY, moist, gray, plastic	0
27.5					
				Soft, SILTY CLAY, moist, gray, plastic	
		SSHS-B3886-SUB-28-30			0
30.0				Bottom of borehole at 30.0 feet.	
32.5					

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BORING B3903

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/19/21 **COMPLETED** 5/19/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY JMW **CHECKED BY** DRAFT
NOTES MS/MSD at 31-33' (P, V, S, M, EC)

DEPTH (ft)	RUN	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington
PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5					
				Medium stiff, SANDY CLAY, some gravel, trace cobbles, damp, brown, poorly graded, rounded gravel, fill	
15.0		SSHS-B3903-SUB-14-16		Loose, FINE GRAINED SAND, some cobbles, some rock fragments, dry, brown, poorly graded, coarsens at base, fill	0.2
				Brown CLAY, some fine to medium grained sand, trace rounded gravel to cobbles, moist, stiff	
		SSHS-B3903-SUB-16-18		Brown, well graded SAND, some rounded gravel, some cobbles, trace clay, dense, damp	0.4
17.5				Brown, subrounded to well rounded GRAVEL, with cobbles, with poorly graded sand, trace silt, saturated	
				Brown, subrounded to well rounded GRAVEL, with cobbles, with poorly graded sand, trace silt, saturated	
		SSHS-B3903-SUB-18-20		Dark brown, well graded, SAND, with coarse angular to subrounded gravel, loose, saturated, sand coarsens to medium to coarse at base, trace silt	0.3
				Dark brown, well graded SAND, some clay, trace coarse grained gravel, wet, medium stiff	
20.0				Dark brown, well graded SAND, some clay, trace coarse grained gravel, saturated, medium stiff	
		SSHS-B3903-SUB-20-22			0.3
				Dark brown, angular to rounded coarse grained GRAVEL, with sandy clay, loose, saturated	

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BORING B3903

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				Dark brown, angular to rounded coarse grained GRAVEL, with sandy clay, loose, saturated *(continued)*	
				Dark brown, angular to rounded coarse grained GRAVEL, with sandy clay, loose, saturated	
22.5				Brown, well graded, fine to coarse grained sand, with fine grained gravel, loose, saturated	
		SSHS-B3903-SUB-22-24		Brown, well graded, fine to coarse grained sand, with coarse grained rounded gravel, saturated	0
				Brown, well graded, fine to coarse grained sand, with coarse grained rounded gravel, saturated	
				Brown, well graded, fine to coarse grained sand, with coarse grained rounded gravel, saturated	
				Brown fine grained rounded GRAVEL, with well graded sand, loose, saturated	
				Brown, well graded, fine to coarse grained sand, with coarse grained rounded gravel, saturated	
25.0		SSHS-B3903-SUB-24-26			0.3
				Coarse grained, rounded GRAVEL, with well graded sand, some cobbles, loose, saturated,	
				Brown well graded fine to medium grained SAND, trace fine grained gravel, trace silt, loose, saturated	
		SSHS-B3903-SUB-26-28		Brown poorly graded SAND, with coarse grained gravel to cobbles, subangular to rounded gravel, trace silt, very loose, saturated	0.4
27.5					
				Brown well graded fine to medium grained SAND, trace gravel, trace silt, loose, damp	
		SSHS-B3903-SUB-28-30		Brown well graded SAND, some fine to coarse grained rounded gravel, loose, wet	0.7
				Coarse GRAVEL and COBBLES, some well graded fine to coarse grained sand, loose, wet	
30.0				Brown interlayered well graded SAND and GRAVEL, rounded gravel and cobbles, trace clay, loose, saturated, transitions from gravel to clay	
		SSHS-B3903-SUB-30-31			0.3
				Gray fat CLAY, clean, stiff, damp	
		SSHS-B3903-SUB-31-33		Gray fat CLAY, clean, stiff, damp	
32.5					

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BORING B3903

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
		SSHS-B3903-SUB-33-35		Gray fat CLAY, clean, stiff, damp *(continued)*	
				Gray fat CLAY, clean, stiff, damp	
35.0				Bottom of borehole at 24.0 feet.	
37.5					
40.0					
42.5					
45.0					

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BORING B3904

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/17/21 **COMPLETED** 5/17/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY S. Perdziola **CHECKED BY** DRAFT
NOTES MS/MSD-18 at 14-16' (P); DUP-26 at 16-18' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3904

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5					
15.0		SSHS-B3904-SUB-14-16		Dense, SAND, with silt, and gravel, sand fine to coarse grained, dry, brown, well graded, subangular gravel	0.1
17.5		SSHS-B3904-SUB-16-18		Dense, SAND, with silt, and gravel, sand fine to coarse grained, dry, brown, well graded, subangular gravel, wet at 17'	0.3
		SSHS-B3904-SUB-18-20		GRAVEL, with medium to coarse grained sand, and silt, wet, brown, well graded, subangular gravel	0.1
20.0		SSHS-B3904-SUB-20-22		GRAVEL, with medium to coarse grained sand, and silt, wet, brown, well graded, subangular gravel	0.2

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BORING B3904

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
22.5		SSHS-B3904-SUB-22-24		Very loose, GRAVEL, with silt, and fine grained sand, saturated, brown, well graded, subrounded gravel	0
25.0		SSHS-B3904-SUB-24-26		Loose, GRAVEL, and medium to coarse grained sand, wet, brown and dark gray, moderately graded, subrounded gravel	0
27.5		SSHS-B3904-SUB-26-28		Loose, GRAVEL, with medium to coarse grained sand, wet, brown, moderately graded, well rounded to subrounded gravel	0.4
		SSHS-B3904-SUB-28-30		Loose, GRAVEL, with medium to coarse grained sand, wet, brown, moderately graded, well rounded to subrounded gravel	0.2
30.0		SSHS-B3904-SUB-30-32		Loose, GRAVEL, with coarse grained sand, wet, brown and light gray, poorly graded, well rounded gravel	0.1
32.5		SSHS-B3904-SUB-32-33		Loose, GRAVEL, with coarse grained sand, wet, brown and light gray, poorly graded, well rounded gravel	0
				Stiff, SILTY CLAY, moist, brown, medium plasticity	

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BORING B3904

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				Stiff, SILTY CLAY, moist, brown, medium plasticity *(continued)*	
		SSHS-B3904-SUB-33-35			0
35.0				Stiff, SILTY CLAY, moist, gray, medium plasticity	
		SSHS-B3904-SUB-35-37			0
				Bottom of borehole at 37.0 feet.	

37.5

40.0

42.5

45.0

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BORING B3905

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/10/21 **COMPLETED** 5/10/21
NORTHING 754876.928 ft **EASTING** 761668.553 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY A. Waheed **CHECKED BY** DRAFT
NOTES DUP-27 at 14-16' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3905

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5					
15.0		SSHS-B3905-SUB-14-16		Dense, GRAVELLY SAND, sand fine to coarse grained, dry, brown, poorly graded, white sand 14.6-14.75'	0.7
17.5		SSHS-B3905-SUB-16-18		SANDY GRAVEL, sand fine to coarse grained, moist, brown, well graded, subangular gravel	0.9
20.0		SSHS-B3905-SUB-18-20		SANDY GRAVEL, sand fine to coarse grained, moist, brown, well graded, subangular gravel	0.6
		SSHS-B3905-SUB-20-22		SANDY GRAVEL, some cobbles, sand fine to coarse grained, moist, brown, well graded, subangular gravel	0.9

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BORING B3905

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
22.5		SSHS-B3905-SUB-22-24		SANDY GRAVEL, some cobbles, sand fine to coarse grained, moist, brown, well graded, subangular gravel	1.5
25.0		SSHS-B3905-SUB-24-26		SANDY GRAVEL, some cobbles, sand fine to coarse grained, moist, brown, well graded, subangular gravel	0.6
27.5		SSHS-B3905-SUB-26-28		SANDY GRAVEL, some cobbles, sand fine to coarse grained, moist, brown, well graded, subangular gravel	0.8
		SSHS-B3905-SUB-28-30		Dense, GRAVELLY SAND, some silt, moist, brown, well graded, subrounded gravel	0.8
30.0				Dense, SAND, with silt, sand fine to medium grained, moist, brown, poorly graded	
		SSHS-B3905-SUB-30-32		Loose, GRAVELLY SAND, brown, well graded, subrounded gravel	1.5
32.5		SSHS-B3905-SUB-32-34		Loose, GRAVELLY SAND, brown, well graded, subrounded gravel	0.9

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BORING B3905

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				Loose, GRAVELLY SAND, brown, well graded, subrounded gravel *(continued)*	
				Medium dense, SAND, trace gravel, sand fine to coarse grained, moist, brown, poorly graded	
35.0		SSHS-B3905-SUB-34-36			0.9
				Medium stiff, SILTY CLAY, damp, gray, medium plasticity	
		SSHS-B3905-SUB-36-38			0
37.5					
				Soft, SILTY CLAY, damp, gray, medium plasticity	
		SSHS-B3905-SUB-38-40			0
40.0				Bottom of borehole at 40.0 feet.	
42.5					
45.0					

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BORING B3906

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/10/21 **COMPLETED** 5/11/21
NORTHING 754780.559 ft **EASTING** 761583.563 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY S. Perdziola **CHECKED BY** DRAFT
NOTES MS/MSD-19 at 20-22' (P); DUP-28 at 14-16' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3906

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5					
15.0		SSHS-B3906-SUB-14-16		SILTY SAND, with gravel, sand fine to coarse grained, dry, light brown to brown, well graded, subangular gravel, wet at 15.9'	0.6
17.5		SSHS-B3906-SUB-16-18		Dense, GRAVEL, with sand, and silt, saturated, brown and gray, well graded, subrounded to subangular gravel	0.9
20.0		SSHS-B3906-SUB-18-20		Dense, SANDY GRAVEL, with silt, sand fine to coarse grained, saturated, brown, subrounded to subangular gravel	1
		SSHS-B3906-SUB-20-22		Dense, SANDY GRAVEL, with silt, sand fine to coarse grained, saturated, brown, subrounded to subangular gravel	1.1

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BORING B3906

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
22.5		SSHS-B3906-SUB-22-24		Loose, SANDY GRAVEL, trace silt, sand fine to coarse grained, wet, brownish gray, well graded, subrounded to subangular gravel	0.8
25.0		SSHS-B3906-SUB-24-26		Loose, SANDY GRAVEL, trace silt, sand fine to coarse grained, wet, brownish gray, well graded, subrounded to subangular gravel	0.5
27.5		SSHS-B3906-SUB-26-28		Very loose, GRAVEL, with medium to coarse grained sand, wet, brown, moderately graded, subrounded gravel	0.5
		SSHS-B3906-SUB-28-30		Very loose, GRAVEL, with medium to coarse grained sand, wet, brown, moderately graded, subrounded gravel	
				Medium dense, SAND, with silt, sand fine grained, wet, brown, poorly graded	0.7
30.0		SSHS-B3906-SUB-30-32		Medium dense, GRAVEL, with fine to coarse grained sand, wet, brown, well graded, subrounded gravel	0.4
32.5		SSHS-B3906-SUB-32-34		Medium dense, GRAVEL, with fine to coarse grained sand, wet, brown, well graded, subrounded gravel	0.4

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BORING B3906

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				Medium dense, GRAVEL, with fine to coarse grained sand, wet, brown, well graded, subrounded gravel *(continued)*	
35.0		SSHS-B3906-SUB-34-36		Medium dense, GRAVEL, with fine to coarse grained sand, wet, brown, well graded, subrounded gravel	0.5
37.5		SSHS-B3906-SUB-36-38		Medium dense, GRAVEL, with fine to coarse grained sand, wet, brown, well graded, subrounded gravel	0.5
40.0		SSHS-B3906-SUB-38-40		Medium dense, GRAVEL, with fine to coarse grained sand, wet, brown, well graded, subrounded gravel	0.4
		SSHS-B3906-SUB-40-41		Medium dense, GRAVEL, with fine to coarse grained sand, wet, brown, well graded, subrounded gravel	0.6
42.5		SSHS-B3906-SUB-41-43		Stiff, CLAY, moist, gray, medium plasticity	0
		SSHS-B3906-SUB-43-45		Stiff, CLAY, moist, gray, medium plasticity	
45.0				Loose, SANDY GRAVEL, sand fine to coarse grained, moist, gray, subrounded gravel	0

Bottom of borehole at 45.0 feet.

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BORING B3907

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/6/21 **COMPLETED** 5/6/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY A. Waheed **CHECKED BY** DRAFT
NOTES DUP-29 at 28-30' (P, V, S, M, EC)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3907

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5					
15.0		SSHS-B3907-SUB-14-16		Dense, SILTY SAND, some gravel, sand fine to coarse grained, saturated, brown, subangular gravel	0.1
17.5		SSHS-B3907-SUB-16-18		Loose, SANDY GRAVEL, with silt, moist, brown, subrounded gravel, low recovery	0
		SSHS-B3907-SUB-18-20		Very loose, SAND, and gravel, with silt, sand fine to coarse grained, moist, brown, subrounded to rounded gravel, low recovery	0
20.0		SSHS-B3907-SUB-20-22		Very loose, GRAVEL, with coarse grained sand, wet, brown, poorly graded, rounded gravel	0

10.0 12.5 15.0 17.5 20.0

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BORING B3907

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				Very loose, GRAVEL, with coarse grained sand, wet, brown, poorly graded, rounded gravel *(continued)*	
22.5		SSHS-B3907-SUB-22-24		Very loose, GRAVEL, with coarse grained sand, wet, brown, poorly graded, rounded gravel	0
25.0		SSHS-B3907-SUB-24-26		Very loose, GRAVEL, with coarse grained sand, wet, brown, poorly graded, rounded gravel	0
27.5		SSHS-B3907-SUB-26-28		Loose, SILTY FINE GRAINED SAND, saturated, brown, poorly graded, low recovery	0
		SSHS-B3907-SUB-28-30		Medium dense, SILTY CLAY, with fine to coarse grained sand, saturated, brown, poorly graded	
				Loose, GRAVEL, some sand, wet, brown and gray, poorly graded, subrounded to rounded gravel	0
30.0		SSHS-B3907-SUB-30-32		Medium stiff, SILTY CLAY, damp, brown and gray, medium plasticity	0
32.5		SSHS-B3907-SUB-32-34		Medium stiff, SILTY CLAY, damp, brown and gray, medium plasticity	0

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BORING B3907

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				Medium stiff, SILTY CLAY, damp, brown and gray, medium plasticity *(continued)*	
				Bottom of borehole at 34.0 feet.	
35.0					
37.5					
40.0					
42.5					
45.0					

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BORING B3908

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/11/21 **COMPLETED** 5/12/21
NORTHING 754788.617 ft **EASTING** 761818.314 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY S. Perdziola **CHECKED BY** DRAFT
NOTES DUP-30 at 14-16' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3908

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5					
15.0		SSHS-B3908-SUB-14-16		Dense, SAND, with silt, and gravel, light brown to brown, well graded, subrounded to subangular gravel, dry 14-15.67', wet 15.67'-16'	1.4
17.5		SSHS-B3908-SUB-16-18		Loose, SAND, with gravel, sand fine to coarse grained, wet, brown, moderately graded, subrounded gravel	1
		SSHS-B3908-SUB-18-20		Loose, SAND, with gravel, sand fine to coarse grained, wet, brown, moderately graded, subrounded gravel	0.4
20.0		SSHS-B3908-SUB-20-22		Loose, SILTY GRAVEL, with sand, wet, grayish black, well graded, subrounded gravel	0.8

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BORING B3908

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				Loose, SILTY GRAVEL, with sand, wet, grayish black, well graded, subrounded gravel *(continued)*	
22.5		SSHS-B3908-SUB-22-24		Loose, SILTY GRAVEL, with sand, wet, grayish black, well graded, subrounded gravel	0.8
25.0		SSHS-B3908-SUB-24-26		Loose, SILTY GRAVEL, with sand, wet, grayish black, well graded, subrounded gravel	0.2
27.5		SSHS-B3908-SUB-26-28		Loose, SILTY GRAVEL, with sand, wet, grayish black, well graded, subrounded gravel	0.1
		SSHS-B3908-SUB-28-29		Loose, SILTY GRAVEL, with sand, wet, grayish black, well graded, subrounded gravel	0.2
30.0		SSHS-B3908-SUB-29-31		Very stiff, CLAY, damp, brown, medium plasticity	0
32.5		SSHS-B3908-SUB-31-33		Soft, CLAY, damp, gray, medium plasticity	0

Bottom of borehole at 33.0 feet.

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BORING B3909

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/7/21 **COMPLETED** 5/7/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY S. Perdziola **CHECKED BY** DRAFT
NOTES MS/MSD-20 at 24-26' (P); DUP-31 at 14-16' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3909

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5					
15.0		SSHS-B3909-SUB-14-16		Loose, SAND, with silt, and gravel, sand fine to coarse grained, dry, brown and tan, well graded, subrounded gravel	0
17.5		SSHS-B3909-SUB-16-18		Loose, SAND, with silt, and gravel, sand fine to coarse grained, dry, brown and tan, well graded, subrounded gravel, wet at 17'	0.2
20.0		SSHS-B3909-SUB-18-20		Loose, GRAVEL, with medium to coarse grained sand, trace silt, saturated, brown, well graded, subrounded gravel	0.5
		SSHS-B3909-SUB-20-22		Very loose, GRAVEL, trace coarse grained sand, wet, gray, poorly graded, well rounded to subrounded gravel	0.6

10.0 12.5 15.0 17.5 20.0

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BORING B3909

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
22.5		SSHS-B3909-SUB-22-24		Very loose, GRAVEL, trace coarse grained sand, wet, gray, poorly graded, well rounded to subrounded gravel	0.5
25.0		SSHS-B3909-SUB-24-26		Loose, GRAVEL, with medium to coarse grained sand, wet, gray, moderately graded, well rounded gravel	0.7
27.5		SSHS-B3909-SUB-26-28		Loose, GRAVEL, with medium to coarse grained sand, wet, gray, moderately graded, well rounded gravel	1
		SSHS-B3909-SUB-28-30		Loose, GRAVEL, with medium to coarse grained sand, wet, gray, moderately graded, well rounded gravel	0.6
30.0		SSHS-B3909-SUB-30-32		Loose, GRAVEL, trace coarse grained sand, wet, gray, poorly graded, well rounded gravel	0.8
32.5		SSHS-B3909-SUB-32-34		Medium stiff, SILTY CLAY, gray, semi-plastic, light brown from 32-33.4'	0

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BORING B3909

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				Medium stiff, SILTY CLAY, gray, semi-plastic, light brown from 32-33.4' *(continued)*	
				Medium stiff, SILTY CLAY, gray, semi-plastic	
35.0		SSHS-B3909-SUB-34-36			0

Bottom of borehole at 36.0 feet.

37.5

40.0

42.5

45.0

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BORING B3910

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/10/21 **COMPLETED** 6/11/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY AH **CHECKED BY** DRAFT
NOTES

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3910

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5					
15.0		SSHS-B3910-SUB-14-16		SILTY SAND, some gravel, fine to medium grained, dry, well graded	0.9
17.5		SSHS-B3910-SUB-16-18		SILTY SAND, fine to medium grained, wet, well graded, some coarse grained gravel and cobbles	0.2
		SSHS-B3910-SUB-18-20		SILTY SAND, fine to medium grained, wet, well graded, some coarse grained gravel and cobbles	0.1
20.0		SSHS-B3910-SUB-20-22		Loose, GRAVEL, and cobbles, some sand, with silt, wet, brown, well graded, gravel coarse grained and angular	

10.0 12.5 15.0 17.5 20.0

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BORING B3910

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
22.5		SSHS-B3910-SUB-22-24		Loose, GRAVEL, and cobbles, some sand, with silt, wet, brown, well graded, gravel coarse grained and angular	0.1
25.0		SSHS-B3910-SUB-24-26		Loose, GRAVEL, and cobbles, some sand, with silt, wet, brown, well graded, gravel coarse grained and angular	0
		SSHS-B3910-SUB-26-28		Loose, GRAVEL, and cobbles, some sand, with silt, wet, brown, well graded, gravel coarse grained and angular	0
27.5				Medium dense, CLAY, brown, wet to moist	
		SSHS-B3910-SUB-28-30		Medium dense, CLAY, wet, gray	0.2
30.0				Bottom of borehole at 30.0 feet.	
32.5					

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BORING B3911

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/11/21 **COMPLETED** 6/11/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY A. Waheed **CHECKED BY** DRAFT
NOTES

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3911

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5					
15.0		SSHS-B3911-SUB-14-16		Loose, SANDY GRAVEL, fine to coarse grained, damp, brown, well graded, subrounded to subangular	0.2
17.5		SSHS-B3911-SUB-16-18		Medium dense, SANDY GRAVEL, fine to coarse grained, wet, brown, well graded, subrounded to subangular	0.2
		SSHS-B3911-SUB-18-20		Medium dense, SANDY GRAVEL, fine to coarse grained, wet, brown, well graded, subrounded to subangular	0.2
20.0		SSHS-B3911-SUB-20-22		Medium dense, SANDY GRAVEL, fine to coarse grained, wet, brown, well graded, subrounded to subangular	0.2

10.0 12.5 15.0 17.5 20.0

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BORING B3911

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
22.5		SSHS-B3911-SUB-22-24		Medium dense, SANDY GRAVEL, fine to coarse grained, wet, brown, well graded, subrounded to subangular	0.2
25.0		SSHS-B3911-SUB-24-26		Medium dense, SANDY GRAVEL, fine to coarse grained, wet, brown, well graded, subrounded to subangular	0.2
27.5		SSHS-B3911-SUB-26-28		Medium dense, SANDY GRAVEL, fine to coarse grained, wet, brown, well graded, subrounded to subangular	0.2
		SSHS-B3911-SUB-28-30		CLAY, wet, brown to gray	0.1
30.0		SSHS-B3911-SUB-30-32		CLAY, wet, brown to gray	0.1
32.5				Bottom of borehole at 32.0 feet.	

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BORING B3912

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/15/21 **COMPLETED** 5/15/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY AS **CHECKED BY** DRAFT
NOTES DUP-34 at 16-18' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				Loose, GRAVEL, with medium to coarse grained sand, moist, dark brown, moderately graded, subrounded to subangular gravel	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3912

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
10.0				Loose, GRAVEL, with medium to coarse grained sand, moist, dark brown, moderately graded, subrounded to subangular gravel *(continued)*	
12.5					
15.0		SSHS-B3912-SUB-14-16		Medium dense, GRAVELLY SAND, wet, dark black, moderately graded, subangular gravel	0.2
17.5		SSHS-B3912-SUB-16-18		GRAVEL, with medium to coarse grained sand, grayish brown, moderately graded, subangular gravel, medium dense to dense	0.8
20.0		SSHS-B3912-SUB-18-20		Loose, GRAVEL, with fine to medium grained sand, wet, gray, well graded, subrounded gravel	2.9
		SSHS-B3912-SUB-20-22		Loose, GRAVEL, with medium to coarse grained sand, wet, grayish brown, well graded	1.1

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BORING B3912

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				Loose, GRAVEL, with medium to coarse grained sand, wet, grayish brown, well graded *(continued)*	
22.5				Loose, GRAVEL, with medium to coarse grained sand, wet, grayish brown, well graded	
		SSHS-B3912-SUB-22-24			1.1
				Loose, GRAVEL, with medium to coarse grained sand, wet, gray to black, well graded, subangular gravel	
		SSHS-B3912-SUB-24-25			1.2
25.0				Stiff, CLAY, brown to gray, medium plasticity	
		SSHS-B3912-SUB-25-27			0.2
				CLAY, wet, gray, medium plasticity, medium stiff (27-28')	
27.5					
		SSHS-B3912-SUB-27-29			0.2
				Bottom of borehole at 29.0 feet.	
30.0					
32.5					

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BORING B3913

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/11/21 **COMPLETED** 6/11/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY S.W. Lee **CHECKED BY** DRAFT
NOTES MS/MSD-21 at 22-24' (P); DUP-35 at 24-26' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

PAULS BH / TP / WELL - DEFAULT.GDT - 8/6/21 09:57 - M:\GINT\PROJECTS\ELMIRA BORING LOGS 2021\ELMIRA - MN0832_APR2021.GPJ

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BORING B3913

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5					
15.0		SSHS-B3913-SUB-14-16		GRAVEL, and cobbles, with sand, with silt, wet, brown, well graded	0.2
17.5		SSHS-B3913-SUB-16-18		GRAVEL, and cobbles, with sand, with silt, wet, brown, well graded	0.2
		SSHS-B3913-SUB-18-20		GRAVEL, and cobbles, with sand, with silt, saturated, brown, well graded	0.2
20.0		SSHS-B3913-SUB-20-22		GRAVEL, and cobbles, with sand, with silt, saturated, brown, well graded	0.1

10.0 12.5 15.0 17.5 20.0

PAULS BH / TP / WELL - DEFAULT.GDT - 8/6/21 09:57 - M:\GINT\PROJECTS\ELMIRA BORING LOGS 2021\ELMIRA - MN0832_APR2021.GPJ

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BORING B3913

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				GRAVEL, and cobbles, with sand, with silt, saturated, brown, well graded *(continued)*	
				GRAVEL, and cobbles, with sand, with silt, saturated, brown, well graded	
22.5		SSHS-B3913-SUB-22-24			0
				GRAVEL, and cobbles, with sand, with silt, saturated, brown, well graded	
25.0		SSHS-B3913-SUB-24-26			0
				Medium stiff, CLAY, damp, gray, medium plasticity	
27.5		SSHS-B3913-SUB-26-28			0
				Medium stiff, CLAY, damp, gray, medium plasticity	
		SSHS-B3913-SUB-28-30			0
30.0				Bottom of borehole at 30.0 feet.	
32.5					

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BORING B3914

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/12/21 **COMPLETED** 5/12/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY S. Perdziola **CHECKED BY** DRAFT
NOTES DUP-36 at 14-16' (P, V, S, M, EC)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3914

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
10.0				No sample collected *(continued)*	
12.5					
15.0		SSHS-B3914-SUB-14-16		Medium dense, SAND, medium to coarse grained, wet, brown, poorly graded, well rounded	0
				3 pushes attempted, no recovery	
17.5					
		SSHS-B3914-SUB-18-20		Medium dense, SAND, medium to coarse grained, wet, brown, poorly graded, well rounded	0
				Loose, GRAVEL, with coarse grained sand, wet, poorly graded, well rounded	
20.0		SSHS-B3914-SUB-20-22		Loose, GRAVEL, with coarse grained sand, wet, poorly graded, well rounded	0

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BORING B3914

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				Loose, GRAVEL, with coarse grained sand, wet, poorly graded, well rounded *(continued)*	
				Loose, GRAVEL, with coarse grained sand, wet, poorly graded, well rounded	
22.5		SSHS-B3914-SUB-22-24			0
				Medium dense, SAND, trace gravel, sand medium grained, saturated, brown, poorly graded, rounded gravel	
25.0		SSHS-B3914-SUB-24-26			0
				Medium stiff, SILTY CLAY, moist, plastic, brown 26-27', gray 27-28'	
27.5		SSHS-B3914-SUB-26-28			0
				Medium stiff, SILTY CLAY, moist, gray, plastic	
30.0		SSHS-B3914-SUB-28-30			0
		SSHS-B3914-SUB-30-32			0
				Bottom of borehole at 32.0 feet.	
32.5					

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BORING B3915

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/6/21 **COMPLETED** 5/6/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY S. Perdziola **CHECKED BY** DRAFT
NOTES DUP-37 at 16--18' (P, V, S, M, EC)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3915

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5					
15.0		SSHS-B3915-SUB-14-16		Loose, GRAVEL, with fine to coarse grained sand, and silt, moist, brown and gray, well graded, subrounded to subangular gravel	0
17.5		SSHS-B3915-SUB-16-18		Medium dense, GRAVEL, with silt, and fine to coarse grained sand, wet, brown, well graded, subrounded to subangular gravel	0
		SSHS-B3915-SUB-18-20		Medium dense, GRAVEL, with silt, and fine to coarse grained sand, wet, brown, well graded, subrounded to subangular gravel	0
20.0		SSHS-B3915-SUB-20-22		Loose, GRAVEL, with coarse grained sand, trace silt, wet, brown, moderately graded, subrounded gravel	0

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BORING B3915

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
22.5		SSHS-B3915-SUB-22-24		Loose, SAND, with gravel, saturated, brown, poorly graded, well rounded gravel	0
25.0		SSHS-B3915-SUB-24-26		Loose, GRAVEL, with coarse grained sand, wet, brown and gray, poorly graded, well rounded gravel	0
27.5		SSHS-B3915-SUB-26-28		Medium stiff, GRAVELLY CLAY, wet, gray, well graded, medium plasticity	0
30.0		SSHS-B3915-SUB-28-30		Medium stiff, SILTY CLAY, damp, gray, medium plasticity	0
				Bottom of borehole at 30.0 feet.	
32.5					

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BORING B3916

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/12/21 **COMPLETED** 4/12/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY S. Perdziola **CHECKED BY** DRAFT
NOTES DUP-38 at 14-16' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3916

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5					
15.0		SSHS-B3916-SUB-14-16		Loose, GRAVEL, with fine to coarse grained sand, trace silt, wet, brown, moderately graded, well rounded gravel	0.8
17.5		SSHS-B3916-SUB-16-18		Very loose, GRAVEL, with fine to coarse grained sand, and silt, saturated, brown, well graded, subrounded to rounded gravel	0.8
		SSHS-B3916-SUB-18-20		Medium dense, SAND, trace gravel, saturated, brown, poorly graded, subrounded gravel	1.3
20.0		SSHS-B3916-SUB-20-22		Loose, GRAVEL, with coarse grained sand, wet, brown, poorly graded, well rounded gravel	0.6

10.0 12.5 15.0 17.5 20.0

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BORING B3916

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				Loose, GRAVEL, with coarse grained sand, wet, brown, poorly graded, well rounded gravel *(continued)*	
22.5		SSHS-B3916-SUB-22-24		Very loose, GRAVEL, with coarse grained sand, saturated, brown and gray, moderately graded	4
25.0		SSHS-B3916-SUB-24-26		Loose, CLAY, saturated, brown, poorly graded, well rounded, medium	2
				Very loose, GRAVEL, wet, black, poorly graded, well rounded gravel	
27.5		SSHS-B3916-SUB-26-28		Medium dense, SANDY GRAVEL, sand medium to coarse grained, moist, brown and gray, moderately graded, subrounded gravel	1.2
30.0		SSHS-B3916-SUB-28-30		Medium stiff, SILTY CLAY, damp, plastic, brown 28-28.5', gray 28.5'-30'	0
		SSHS-B3916-SUB-30-32		Medium stiff, SILTY CLAY, damp, gray, plastic	0
32.5				Bottom of borehole at 32.0 feet.	

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BORING B3917

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/12/21 **COMPLETED** 5/13/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY S. Perdziola **CHECKED BY** DRAFT
NOTES DUP-39 at 0.17-2' (P, V, S, M, EC)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
		SSHS-B3917-SUB-0-2		Dense, SILT, moist, brown	0
				SANDY GRAVEL, with silt, sand fine to coarse grained, moist, brown and gray, well graded, subangular gravel, fill	
2.5		SSHS-B3917-SUB-2-4		SANDY GRAVEL, with silt, sand fine to coarse grained, damp, gray and black, well graded, subangular gravel, fill	0.1
5.0		SSHS-B3917-SUB-4-6		SANDY GRAVEL, with silt, sand fine to coarse grained, damp, gray and black, well graded, subangular gravel, fill	0
7.5		SSHS-B3917-SUB-6-8		Medium dense, SILTY SAND, with gravel, moist, brown to dark brown, well graded, subangular gravel, fill	0
		SSHS-B3917-SUB-8-10		Medium dense, SILTY SAND, with gravel, moist, brown to dark brown, well graded, subangular gravel, fill	0

0.0 2.5 5.0 7.5

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BORING B3917

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
		SSHS-B3917-SUB-10-12		Medium dense, SILTY SAND, with gravel, moist, brown to dark brown, well graded, subangular gravel, fill	0
12.5		SSHS-B3917-SUB-12-14		Medium dense, SILTY SAND, with gravel, moist, brown to dark brown, well graded, subangular gravel, fill	0
15.0		SSHS-B3917-SUB-14-16		Medium dense, SANDY GRAVEL, wet, brown, moderately graded, subrounded gravel	
		SSHS-B3917-SUB-16-18		Loose, SANDY GRAVEL, moist, gray, well graded, subrounded gravel	
17.5				SANDY GRAVEL, with silt, wet, brown, poorly graded, rounded gravel	0
		SSHS-B3917-SUB-18-20		SANDY GRAVEL, with silt, wet, brown, poorly graded, rounded gravel	
20.0				Loose, SAND, medium grained, wet, brown, poorly graded, well rounded	0
		SSHS-B3917-SUB-20-22		Loose, SAND, medium grained, wet, brown, poorly graded, well rounded	
				SANDY GRAVEL, wet, brown, poorly graded, well rounded gravel, coarse grained sand	0

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BORING B3917

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				SANDY GRAVEL, wet, brown, poorly graded, well rounded gravel, coarse grained sand *(continued)*	
22.5		SSHS-B3917-SUB-22-24		SANDY GRAVEL, wet, brown, poorly graded, well rounded gravel, coarse grained sand	0
25.0		SSHS-B3917-SUB-24-26		SANDY GRAVEL, wet, brown, poorly graded, well rounded gravel, coarse grained sand	0
27.5		SSHS-B3917-SUB-26-28		Loose, SAND, trace gravel, wet, brown, poorly graded, well rounded gravel, coarse grained sand	0
		SSHS-B3917-SUB-28-30		Loose, SAND, trace gravel, wet, brown, poorly graded, well rounded gravel, coarse grained sand	0.1
30.0		SSHS-B3917-SUB-30-32		SILTY CLAY, damp, gray, medium plasticity	0
32.5		SSHS-B3917-SUB-32-34		SILTY CLAY, damp, gray, medium plasticity	0

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BORING B3917

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				SILTY CLAY, damp, gray, medium plasticity *(continued)*	
				Bottom of borehole at 34.0 feet.	
35.0					
37.5					
40.0					
42.5					
45.0					

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BORING B3918

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/12/21 **COMPLETED** 5/13/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY S. Perdziola **CHECKED BY** DRAFT
NOTES DUP-40 at 0.17-2' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				Dense, SILT, moist, brown	
		SSHS-B3918-SUB-0-2		SANDY GRAVEL, with silt, sand fine to coarse grained, dry, light tan, well graded, subangular gravel, fill	2.5
2.5		SSHS-B3918-SUB-2-4		SANDY GRAVEL, with silt, sand fine to coarse grained, dry, light tan, well graded, subangular gravel, fill	1.1
5.0		SSHS-B3918-SUB-4-6		SILTY SAND, with gravel, sand fine to coarse grained, damp, brown, well graded, subangular gravel, fill	1.4
7.5		SSHS-B3918-SUB-6-8		Loose, SANDY GRAVEL, with silt, sand fine to coarse grained, dry, light tan and gray, well graded, angular gravel, fill	0.4
		SSHS-B3918-SUB-8-10		Medium dense, SANDY GRAVEL, with silt, dry, light tan and gray, well graded, fill	1.1

0.0 2.5 5.0 7.5

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BORING B3918

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
		SSHS-B3918-SUB-10-12		Medium dense, SANDY GRAVEL, with silt, dry, light tan and gray, well graded, fill	2.6
12.5		SSHS-B3918-SUB-12-14		Medium dense, SANDY GRAVEL, with silt, damp, light tan and gray, well graded, fill	0.6
15.0		SSHS-B3918-SUB-14-16		Medium dense, SANDY GRAVEL, with silt, sand fine to coarse grained, wet, brown, well rounded to subrounded gravel	0.5
17.5		SSHS-B3918-SUB-16-18		Loose, SANDY GRAVEL, sand fine to coarse grained, brown, well graded, moist to wet	0.6
		SSHS-B3918-SUB-18-20		Loose, GRAVEL, with medium to coarse grained sand, wet, brown, poorly graded, subrounded gravel	0.4
20.0		SSHS-B3918-SUB-20-22		Loose, GRAVEL, with medium to coarse grained sand, wet, brown, poorly graded, subrounded gravel	0.3

10.0 12.5 15.0 17.5 20.0

PAULS BH / TP / WELL - DEFAULT.GDT - 5/27/21 13:35 - Z:\GINT\PROJECTS\ELMIRA BORING LOGS 2021\ELMIRA - MN0832_APR2021.GPJ

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BORING B3918

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
22.5		SSHS-B3918-SUB-22-24		Loose, GRAVEL, with medium to coarse grained sand, wet, brown, poorly graded, subrounded gravel	0.6
25.0		SSHS-B3918-SUB-24-26		Loose, GRAVEL, with coarse grained sand, wet, brown, poorly graded	0.8
27.5		SSHS-B3918-SUB-26-28		Loose, GRAVEL, with coarse grained sand, wet, brown, poorly graded	1.1
		SSHS-B3918-SUB-28-30		Stiff, SILTY CLAY, damp, low plasticity	0
30.0		SSHS-B3918-SUB-30-32		Stiff, SILTY CLAY, damp, low plasticity	0
32.5				Bottom of borehole at 32.0 feet.	

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BORING B3930

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 5/11/21 **COMPLETED** 5/11/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY A. Waheed **CHECKED BY** DRAFT
NOTES DUP-41 at 8-10' (P, V, S, M, EC)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0.0				No sample collected	
2.5					
5.0		SSHS-B3930-SUB-4-6		Medium dense, SAND, with gravel, sand fine to coarse grained, dry, brown, poorly graded, subrounded gravel	9.6
7.5		SSHS-B3930-SUB-6-8		Medium dense, SAND, with gravel, sand fine to coarse grained, dry, brown, poorly graded, subrounded gravel, odor	30.7
		SSHS-B3930-SUB-8-10		Medium dense, SAND, with gravel, sand fine to coarse grained, dry, brown, poorly graded, subrounded gravel, odor	230.9

PAULS BH / TP / WELL - DEFAULT.GDT - 5/27/21 13:35 - Z:\GINT\PROJECTS\ELMIRA BORING LOGS 2021\ELMIRA - MN0832_APR2021.GPJ

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BORING B3924

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/18/21 **COMPLETED** 6/18/21
NORTHING 755449.883 ft **EASTING** 761885.507 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES DUP-77 at 18-20' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3924

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5				SILTY SAND, dry, brown to light brown, well graded	
		SSHS-B3924-SUB-12-14		SILTY SAND, and rock fragments, moist, dark brown	0
15.0		SSHS-B3924-SUB-14-16		GRAVEL, and silty sand, wet, dark brown, grades to sand with silt at base	0
				SAND, with silt, wet, dark brown	
		SSHS-B3924-SUB-16-18		SANDY SILT, wet, brown, lense of sand with silt present	0
17.5				SILTY SAND, with gravel, and cobbles, brown	
		SSHS-B3924-SUB-18-20			0
20.0				SILTY SAND, with gravel, and cobbles, brown, gravel content increases	
		SSHS-B3924-SUB-20-22			0

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BORING B3924

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				SILTY SAND, with gravel, and cobbles, brown, gravel content increases *(continued)*	
				Bottom of borehole at 22.0 feet.	
22.5					
25.0					
27.5					
30.0					
32.5					

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BORING B3930

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
		SSHS-B3930-SUB-10-12		Medium dense, GRAVELLY SAND, sand fine to coarse grained, dry, brown, moderately graded, subrounded gravel	0.3
12.5		SSHS-B3930-SUB-12-14		Medium dense, GRAVELLY SAND, sand fine to coarse grained, dry, brown, moderately graded, subrounded gravel	0.3
15.0		SSHS-B3930-SUB-14-16		Medium dense, GRAVELLY SAND, sand fine to coarse grained, dry, brown, moderately graded, subrounded gravel	2
17.5		SSHS-B3930-SUB-16-18		Medium dense, GRAVELLY SAND, sand fine to coarse grained, wet, brown, moderately graded, subrounded gravel	0.9
				Bottom of borehole at 4.0 feet.	
20.0					

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BORING B3885

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 9/22/21 **COMPLETED** 9/22/21
NORTHING 754976.748 ft **EASTING** 762091.535 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION ---
BORING DIAMETER 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION 856.889 ft
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY L. Nyblade
CHECKED BY DRAFT
NOTES

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3885

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5					
15.0		SSHS-B3885-SUB-14-16		Loose, SILT, with gravel, dry, brown, well graded, gravel medium grained	0
17.5		SSHS-B3885-SUB-16-18		Loose, SILT, with gravel, dry, brown, well graded, gravel medium grained, wet gravel at bottom, well graded	0
		SSHS-B3885-SUB-18-20		Medium dense, SILT, with gravel, wet, brown, well graded, gravel fine to medium grained	0
20.0		SSHS-B3885-SUB-20-22		Medium dense, GRAVEL, with silt, wet, well graded	0

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BORING B3885

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				Medium dense, GRAVEL, with silt, wet, well graded *(continued)*	
				Medium dense, GRAVEL, with silt, wet, well graded	
22.5		SSHS-B3885-SUB-22-24			1.8
				Medium dense, GRAVEL, with silt, wet, well graded, some clay	
		SSHS-B3885-SUB-24-25			0
25.0				Medium stiff, CLAY, wet, gray	
		SSHS-B3885-SUB-25-27			0
				Medium stiff, CLAY, some gravel, wet, gray	
27.5		SSHS-B3885-SUB-27-29			0
				Bottom of borehole at 29.0 feet.	
30.0					
32.5					

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BORING B3925

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/18/21 **COMPLETED** 6/18/21
NORTHING 755461.201 ft **EASTING** 761911.295 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES DUP-78 at 12-14' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3925

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5		SSHS-B3925-SUB-12-14		SILTY SAND, with rock fragments, moist, brown	0
				SILTY SAND, with rock fragments, dry, brown	
15.0		SSHS-B3925-SUB-14-16		SAND, with silt, brown, clayey gravel 15.75-16'	0.1
		SSHS-B3925-SUB-16-18		CLAYEY GRAVEL, wet, brown to gray, rock fragments from 17.33-18'	0
17.5				CLAYEY GRAVEL, wet, brown to gray	
		SSHS-B3925-SUB-18-20			0
20.0				CLAYEY GRAVEL, wet, brown to gray	
		SSHS-B3925-SUB-20-22		CLAYEY GRAVEL, wet, brown	0

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CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				CLAYEY GRAVEL, wet, brown *(continued)*	
				Bottom of borehole at 22.0 feet.	
22.5					
25.0					
27.5					
30.0					
32.5					

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BORING B3926

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/18/21 **COMPLETED** 6/18/21
NORTHING 755444.698 ft **EASTING** 761937.95 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3926

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5		SSHS-B3926-SUB-12-14		SILTY SAND, with gravel, and rock fragments, moist, brown	0
15.0		SSHS-B3926-SUB-14-16		SILTY SAND, with gravel, and rock fragments, moist, brown	0
17.5		SSHS-B3926-SUB-16-18		GRAVEL, and silty sand, wet, brown, poorly graded sand and cobble lenses, clay at base	0
		SSHS-B3926-SUB-18-20		GRAVEL, and silty sand, wet, clay and cobbles from 18.5-20'	0
20.0				CLAY, with cobbles, saturated, brown	
		SSHS-B3926-SUB-20-22		CLAY, moist, gray	0

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BORING B3926

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				CLAY, moist, gray *(continued)*	
				Bottom of borehole at 22.0 feet.	
22.5					
25.0					
27.5					
30.0					
32.5					

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BORING B3927

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/17/21 **COMPLETED** 6/17/21
NORTHING 755235.61 ft **EASTING** 761996.054 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES DUP-74 at 4-6' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0.0				No sample collected	
2.5					
				CLAYEY SAND, rock fragments, brown	
5.0		SSHS-B3927-SUB-4-6		SAND, with silt, with rock fragments, dry, brown, fill	2.7
				SAND, with silt, with rock fragments, dry, brown, fill	
		SSHS-B3927-SUB-6-8			9.7
7.5				SAND, with silt, with rock fragments, dry, brown, fill	
		SSHS-B3927-SUB-8-10			0

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BORING B3927

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
		SSHS-B3927-SUB-10-12		SILTY SAND, rock fragments, and cobbles, moist, brown, fill	0.2
12.5		SSHS-B3927-SUB-12-14		SILTY SAND, rock fragments, and cobbles, moist, brown, increased gravel content, damp at base, fill	0.5
				SILTY SAND, rock fragments, and cobbles, damp, brown, fill	
15.0		SSHS-B3927-SUB-14-16		GRAVEL, and silty sand, wet, dark brown	0.1
		SSHS-B3927-SUB-16-18		GRAVEL, and silty sand, wet, dark brown	0
17.5					
				Bottom of borehole at 18.0 feet.	
20.0					

10.0 12.5 15.0 17.5

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BORING B3928

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/18/21 **COMPLETED** 6/18/21
NORTHING 755276.602 ft **EASTING** 762032.239 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES MS/MSD-42 at 14-16' (P); DUP-75 at 6-8' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0		SSHS-B3928-SUB-4-6		CLAYEY SAND, rock fragments, damp, dark brown, roots	0
				SAND, with rock fragments, dry, light brown, poorly graded, fill	
		SSHS-B3928-SUB-6-8		SAND, with silt, with rock fragments, and gravel, dry, brown to light brown, poorly graded	0
7.5					
				SAND, with silt, with rock fragments, and gravel, dry, brown to light brown, poorly graded	
		SSHS-B3928-SUB-8-10		SAND, with silt, rock fragments, dry, brown, poorly graded	0

0.0 2.5 5.0 7.5

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BORING B3928

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
		SSHS-B3928-SUB-10-12		SAND, with silt, with rock fragments, dry, brown, poorly graded, interlayered silty sand	0
12.5		SSHS-B3928-SUB-12-14		SAND, with silt, with rock fragments, dry, brown, poorly graded, interlayered silty sand, rock fragments increase near base	0
15.0		SSHS-B3928-SUB-14-16		CLAYEY SAND, moist, brown, poorly graded, gravel at base (2")	0
17.5		SSHS-B3928-SUB-16-18		GRAVEL, some sand, with silt, coarse grained, wet, dark brown, poorly graded	0
20.0				Bottom of borehole at 18.0 feet.	

10.0

12.5

15.0

17.5

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BORING B3929

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/17/21 **COMPLETED** 6/17/21
NORTHING 755256.179 ft **EASTING** 761975.756 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES DUP-76 at 4-6' (P)

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0.0				No sample collected	
2.5					
				SAND, with silt, with rock fragments, brown	
5.0		SSHS-B3929-SUB-4-6		SILTY SAND, moist, brown	0
				SILTY SAND, moist, brown	
		SSHS-B3929-SUB-6-8		SILTY SAND, rock fragments, dry, light brown	0
7.5					
				SILTY SAND, rock fragments, dry, light brown	
		SSHS-B3929-SUB-8-10		CLAYEY SAND, moist, brown, rock fragments at base (4")	0

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BORING B3929

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
		SSHS-B3929-SUB-10-12		CLAYEY SAND, and rock fragments, moist, brown	0.1
12.5		SSHS-B3929-SUB-12-14		SAND, with silt, and rock fragments, dry, brown, sand coarse grained	2.4
				SAND, with silt, and rock fragments, dry, brown, sand coarse grained	
15.0		SSHS-B3929-SUB-14-16		GRAVEL, and sand, with clay, wet, brown, gravel medium grained	0.1
		SSHS-B3929-SUB-16-18		SAND, with clay, trace gravel, dark brown, grades to clayey sand	0.1
17.5					
20.0					

Bottom of borehole at 18.0 feet.

10.0 12.5 15.0 17.5

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BORING B3931

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/17/21 **COMPLETED** 6/17/21
NORTHING 754746.788 ft **EASTING** 761679.273 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR ---
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0		SSHS-B3931-SUB-4-6		SILTY SAND, with rock fragments, moist, brown, clayey sand at base (~1"), fill	0.2
7.5		SSHS-B3931-SUB-6-8		SILTY SAND, with rock fragments, and gravel, moist, brown, grades to poorly graded sand with silt	0.3
		SSHS-B3931-SUB-8-10		SILTY SAND, trace chert, and rock fragments, and gravel, damp, brown	0.1

0.0 2.5 5.0 7.5

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BORING B3931

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
		SSHS-B3931-SUB-10-12		SILTY SAND, trace chert, and rock fragments, and gravel, damp, brown	0.2
12.5		SSHS-B3931-SUB-12-14		SAND, with silt, with rock fragments, dry, light brown, poorly graded	0
				Bottom of borehole at 14.0 feet.	

10.0

12.5

15.0

17.5

20.0

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BORING B3932

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/17/21 **COMPLETED** 6/17/21
NORTHING 754734.755 ft **EASTING** 761661.358 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0		SSHS-B3932-SUB-4-6		SILTY SAND, with gravel, moist, brown	0.8
7.5		SSHS-B3932-SUB-6-8		SILTY SAND, with gravel, moist, brown	0.3
		SSHS-B3932-SUB-8-10		SILTY SAND, with gravel, moist, brown ROCK FRAGMENTS with silty sand	0.1

0.0 2.5 5.0 7.5

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BORING B3932

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
10.0				SILTY SAND	
		SSHS-B3932-SUB-10-12		SAND, with silt, with gravel, poorly graded	0
				SILTY SAND, with gravel, dark brown	
12.5		SSHS-B3932-SUB-12-14			0.2
				Bottom of borehole at 14.0 feet.	
15.0					
17.5					
20.0					

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BORING B3933

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/17/21 **COMPLETED** 6/17/21
NORTHING 754750.869 ft **EASTING** 761665.637 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
				SILTY SAND, with gravel, and cobbles, damp, dark brown	
5.0		SSHS-B3933-SUB-4-6			0
				SILTY SAND, with gravel, and cobbles, damp, dark brown	
				CLAYEY SAND, damp, dark brown, gravel lenses	
		SSHS-B3933-SUB-6-8			0
7.5					
				CLAYEY SAND, moist, dark brown, gravel lenses	
		SSHS-B3933-SUB-8-10			0

0.0
2.5
5.0
7.5

(Continued Next Page)

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BORING B3933

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
10.0		SSHS-B3933-SUB-10-12		SAND, with silt, moist, dark brown, poorly graded	0
12.5		SSHS-B3933-SUB-12-14		CLAYEY SAND, dark brown, with gravel and rock lenses	0
				Bottom of borehole at 14.0 feet.	
15.0					
17.5					
20.0					

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BORING B3934

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 6/17/21 **COMPLETED** 6/17/21
NORTHING Unknown **EASTING** Unknown
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY
CHECKED BY DRAFT
NOTES

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0.0				No sample collected	
2.5					
5.0		SSHS-B3934-SUB-4-6		SILTY SAND, with gravel, and rock fragments, moist, brown, fill	33.2
7.5		SSHS-B3934-SUB-6-8		SILTY SAND, with gravel, and rock fragments, moist, brown, fill, interlayers of poorly graded silt with sand	17.6
		SSHS-B3934-SUB-8-10		SILTY SAND, with gravel, and rock fragments, moist, brown, fill, interlayers of poorly graded silt with sand	1.6

PAULS BH / TP / WELL - DEFAULT.GDT - 8/6/21 10:18 - M:\GINT\PROJECTS\ELMIRA BORING LOGS 2021\ELMIRA - MN0832_APR2021.GPJ

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BORING B3934

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
10.0				SILTY SAND, with gravel, and rock fragments, moist, brown, fill, interlayers of poorly graded silt with sand	
		SSHS-B3934-SUB-10-12		SILTY SAND, brown	8.5
				SAND, with silt, with fine grained gravel, brown	
12.5				Brown interlayered SAND with silty and silty sand, with rock fragments, with gravel, fill	
		SSHS-B3934-SUB-12-14			3.4
				Bottom of borehole at 14.0 feet.	
15.0					
17.5					
20.0					

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BORING LOG

Geosyntec consultants

Boring ID: B3920

Project No.: MN0832G/12/03

Project Name: Former Sperry Remington

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s):

Rig type: Geoprobe

Geologist:

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 7/1/21

MS/MSD: MS/MSD

Duplicate: Dup-

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
14	0.3	1120	light brown-brown, saturated, loose, sandy gravel gravel up to 2in, fine sands, gravel subrounded	24	13	P	
16	0.1	1125	SAA	24	15		
18	0.2	1130	18-19: SAA 19-20: Sand increases w/ depth to a poorly graded sand w/ some gravel, subrounded up to 1/4 in	24	16		
20	2.8	1135	poorly graded fine sand w/ gravel up to 1in, light brown to orange-brown, soft-med dense saturated * Dup-	24	24		
22	2.3	1140	SAA: gravel increases in abundance up to 1in, subrounded	24	24		
24							

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BORING B3925A

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 7/26/21 **COMPLETED** 7/26/21
NORTHING 755461.201 ft **EASTING** 761911.295 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY P. Silverhart **CHECKED BY** DRAFT
NOTES

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
5					
10					
15					
		SSHS-B3925A-SUB-16-18		SAND, some silt, trace gravel, wet, brown, subangular gravel	0.2
				SAND, with gravel, some silt, wet, brown, subangular gravel	

Bottom of borehole at 18.0 feet.

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BORING LOG

Project No. MN0832G D3920

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Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (Inches)	Analytes	Depth (ft)
24	1601	1145	SAA: Slight odor, light gray	24	24	P V	
26	740.6	1150	26-26.8: SAA 26.8: Top of clay 26.8-28: light gray, very stiff, fat clay, wet, plastic slight odor, *MS/MSD—	24	24	P V	
28	208.2	1155	SAA: oil sheen	24	24	P V	
30	82.4	1200	SAA: oil sheen	24	24	P V	
32							
34							
36							
38							

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BORING LOG

Geosyntec consultants

Boring ID: B4015

Project No.: MN0E32G/12/03

Project Name: Former Sperry Remington

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s):

Rig type: Geoprobe

Geologist:

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 6/30

MS/MSD: -20 (P)

Duplicate: Dup-40(P)
Dup-41(P)

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
14	5.1	835	light brown, dry, silty sand w/ gravel, subrounded up to 1/2 in, Fill/riprap 4-14.5 medium compacted/ dense	24	12	P	
16	24.2	840	16-17: SAA 17-18: Sandy gravel, loose, wet, dark gray, odor * Dup-48	24	18	SV	
18	28.7	845	gray, Saturated, loose, Sandy gravel, gravel up to 1in, odor	24	18	SV	
20	9.2	850	SAA: Slight odor	24	12		
22	8.7	855	SAA:	24	12		
24							

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BORING LOG

Project No. MN0832G

B401S

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Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
24	12.8	900	SAA: oil sheen dark gray, strong odor *Dup-41	24	24	P SV	
26	7.6	905	SAA: brown - orange, no oil sheen, slight odor	24	24		
28	1.9	910	SAA: gravel smaller up to 1/4 in, rounded well sorted	24	18		
30	1.3	915	sandy gravel up to 1/4 in grades into wet poorly graded sand w/ silt and gravel, dark brown, med dense	24	18		
32	3.7	920	wet, poorly graded sand, w/ silt and gravel up to 1/4, gravel decreases w/ depth is not present 33-36, soft, oil sheen slight odor *MS/MSD-20	24	18		
34	2.8	925	SAA	24	18		
36	0.1	930	no odor, dense, clay, brown - orange, wet, some sand present in clay	24	24		
38							

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BORING LOG

Project No. MN0832G

B4015

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Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analyses	Depth (ft)
38	0.6	935	38÷39: SA w/ clay, dense, brown-orange 39-40: gray, wet, fat clay, very dense, little sand, slight odor	24	24	P	
40	0.9	940	gray, slight odor, wet, fat clay very stiff	24	24		
42				24			

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BORING LOG

Geosyntec consultants

Boring ID: B4016

Project No.: MN0832G/12/03

Project Name: Former Sperry Remington

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s):

Rig type: Geoprobe

Geologist:

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 6/3

MS/MSD: - 21 (P, M, S, V, GC)

Duplicate: Dup - 42 (P, M, S, V, GC)
Dup - 43 (P, M, S, V, GC)

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
14	2.0	200	light brown to gray, silty sand w/ gravel up to 1/2 in, gravel subrounded, damp, medium condensed, slight odor	24	18	P, M, S, V, GC	
16	4.8	205	SAA: all gray in color	24	16		
18	5.4	210	grey, saturated, sandy gravel w/ silt, gravel up to 1in, odor, loose	24	12		
20	9.3	215	SAA	24	12		
22	8.2	220	AA: brown - dark brown, slight odor	24	14		
24							

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BORING LOG

Project No. MN0832G

B 4016

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Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
24	0.2	225	SAA: Slight odor, little sand present	24	14	P, M, S, V, G	
26	0.3	230	SAA: w/ sand, fine sands	24	20		
28	0.1	235	28-29: SAA 29-30: poorly graded sand, w/ gravel up to 1/4 in, medium dense, saturated	24	19		
30	0.4	240	SAA: gravel abundance increases Dup-42	24	24		
32	0.6	245	SAA! Dup-43	24	24		
34	0.1	250	poorly graded sand w/ gravel up to 1in, med dense wet, brown gravel subrounded, gravel decreases w/ depth	24	24		
36	0.1	255	36-37: SAA 37-38: poorly graded sand w/ clay, wet, stiff, brown MS/MSD-21	24	24		
38							

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BORING LOG

Project No. MN0832G

B4016

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Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
38	0.7	300	gray, wet, very stiff, fat clay plastic, slight odor	24	24	PM, SV, EC	
40	0.9	305	SAA	24	24	↓	
42							

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BORING LOG

Geosyntec consultants

Boring ID: B4017

Project No.: MN0832G/12/03

Project Name: Former Sperry Remington

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s):

Rig type: Geoprobe

Geologist:

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 7/1/21

MS/MSD: ~

Duplicate: ~

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
0	1.3	950	dark brown, damp, loose and unconsolidated sandy silt no gravel, fine sands	2	2	S, M	
0.17	0.6	955	light brown-brown, sandy silt, silt increases w/ depth, med dense, damp, small rock fragments sub-angular up to 1/4 in	10	8		
1	1.8	1000	SAA	12	11		
2	3.1	1005	SAA 3-4: brown-orangish	24	15		
4	6.3	1010	light brown-brown, silty sand w/ gravel, gravel subrounded up to 1/2 in, poorly graded fine sands, moist	24	20	SM Hold	
6							

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BORING LOG

Geosyntec consultants

Boring ID: B4018
Project No.: MN0832G/12/03
Project Name: Former Sperry Remington
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s):
Rig type: Geoprobe

Geologist:
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 7/1/21
MS/MSD: -1 (PMSVEC)
Duplicate: Dup-1 (PMSVEC)

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
0	0.7	840	Brown, damp, sandy silt, loose + unconsolidated, some gravel subrounded up to 1/2 in * MS/MSD -1 ~~Dup-1~~	2	2	PMSVEC	
0.17	4.2	845	light brown-brown, dense, damp, sandy silt no gravel fine sands	10	9		
1	3.9	850	SAA: brown w/ fill 1.4-1.8	12	11		
2	2.9	855	SAA * Dup-1	24	16		
4	3.3	900	light brown-orange brown, silty sand w/ gravel gravel up to 1in subrounded, soft, damp	24	17	PMSVEC Hold	
6							

BORING LOG

Geosyntec consultants

Boring ID: B401a

Project No.: MN0832G/12/03

Project Name: Former Sperry Remington

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s):

Rig type: Geoprobe

Geologist:

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 7/1/21

MS/MSD: ~

Duplicate: ~

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
0	0.5	915	brown- dark brown, damp, sand silt, loose and unconsolidated	2	2	SM V	
0.17	0.1	920	dark brown, sandy silt w/ gravel up to 1/2 in, damp, subrounded gravel, loose - soft	10	8	SM V	
1	0.1	925	1-1.5: SAA 1.5-2: very soft, light brown fill w/ gravel up to 1in, dry	12	10	SM V	
2	4.4	930	brown to black, sandy silt w/ gravel up to 1/2in, subrounded gravel, medium dense, damp, interbedded organic material	24	17	SM V	
4	2.6	935	SAA	24	20	SM V Hold	
6							

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BORING LOG

Geosyntec consultants

Boring ID: BH020

Project No.: MN0832G/12/03

Project Name: Former Sperry Remington

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): /

Rig type: Geoprobe

Geologist: MS

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 7/1/21

MS/MSD:

Duplicate: Dup-2

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
0	2.3		L. Brown silty w/ fine sand + organics m. dense. v/moist.	0.17	0.17		
0.17			EOB				

BORING LOG

Geosyntec consultants

Boring ID: B4021

Project No.: MN0832G/12/03

Project Name: Former Sperry Remington

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s):

Rig type: Geoprobe

Geologist: MS

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 4/1/21

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
0							
	1.7	1400	L. Brown silt w/ organics + fine sand moist m. dense.	~~1.7~~			
					.17	.17	
0.17			EOB.				

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BORING LOG

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Boring ID: BH022

Project No.: MN0832G/12/03

Project Name: Former Sperry Remington

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s):

Rig type: Geoprobe

Geologist: MS

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 7/1/21

MS/MSD: /

Duplicate: /

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
0.0	0.		L Brown silt w/ fine sand + organics, moist. M. dense				
	0.3			.17	.17		
0.17			EOB				

BORING LOG

Geosyntec consultants

Boring ID	B4023	Geologist	MS
Project No.	MN0832G/12/03	Drilling Method	Direct Push
Project Name	Former Sperry Remington	Borehole Dia.	1.5"
Location	Elmira, NY	Depth to Water	
Drilling Co.	Cascade	Date	7/1/21
Driller/helper(s)	/	MS/MSD	/
Rig type	Geoprobe	Duplicate	

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (Inches)	Analytes	Depth (ft)
0	3.3		L. Brown silt and organics + fine sand. moist. m. dense	.17	.17		
0.17			EOB				

BORING LOG

Geosyntec consultants

Boring ID: B4021

Project No.: MN0832G/12/03

Project Name: Former Sperry Remington

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s):

Rig type: Geoprobe

Geologist: MS

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 7/1/21

MS/MSD: -

Duplicate: -

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
0			L. Brown silt w/ fine sand + organics, m-dense, moist	.17	.17		
	2.6						
0.17			- E.O.B. -				

BORING LOG

Geosyntec consultants

Boring ID: B402S

Project No.: MN0832G/12/03

Project Name: Former Sperry Remington

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s):

Rig type: Geoprobe

Geologist:

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 7/1/21

MS/MSD:

Duplicate: Dup-3(S)

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
4	0.2	0810	dark brown, wet, sandy silt w/ gravel up to 1/2 in, gravel subrounded, mod dense, interbedded fill up to 1 in in areas * Dup-3(S)	24	12	S	
6							

BORING LOG

Geosyntec consultants

Boring ID: B4026

Project No.: MN0832G/12/03

Project Name: Former Sperry Remington

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s):

Rig type: Geoprobe

Geologist:

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 7/1/21

MS/MSD: -2 (PS)

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
4	2.7	805	brown - orangish brown, wet, sandy silt w/ gravel up to 1/4 in, subrounded, med dense *MS/MSD-2	24	17	5	
6							

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BORING LOG

Geosyntec consultants

Boring ID: B4027

Project No.: MN0832G/12/03

Project Name: Former Sperry Remington

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s):

Rig type: Geoprobe

Geologist:

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 7/1/21

MS/MSD: ~

Duplicate: ~

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
4	1.7	0800	dark brown to black, sandy silt w/ rock fragments up to 1in, subangular, damp, medium dense, light gray fill + loose from 5.9-6	24	17	S	
6							

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BORING LOG

Geosyntec consultants

Boring ID: B 3646 A

Project No.: MN0832G

Project Name: Former Sperry Remington

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s):

Rig type: Geoprobe

Geologist: Lena Nyblade

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 9/17/21

P,M,S,V → MS/MSD: -03 (14-16)

MS/MSD Duplicate: -04 (16-18)

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
0	0.0	730	0-2' Brown clay and organics, moist, dense,	2	2	P M S V	
0.17	0.0	735	Loose Brown silt with small gravel and some organics dry	24	18	EC [Hold P S V]	
2	0.0	740	Brown and tan silty sand with gravel, dry, medium dense, poorly sorted	24	23	EC [Hold P S V]	
4	0.0	745	SAA	24	24	S V [Hold P M]	
6		750	Brown and tan silty sand with gravel, dry, medium dense poorly sorted	24	24	S V EC [Hold P M]	
8							

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BORING LOG

B364GA p.2

Project No. MN0832G

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Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
8	0.0	755	SAA, moist	24	24	S V [Hold P M]	
10	0.0	800	SAA, dry	24	24	S V [Hold P M]	
12	0.0	805	SAA, dry	24	24	S EC [Hold P M V]	
14	0.0	810	SAA, medium sized gravel, loose, dry MS/MSD-03 (16 Jars)	24	18	P M S V	
16	0.0	815	Brown and tan silty sand with gravel, dry medium dense Transition to large wet gravel with silt MS/MSD-04 (16 Jars)	24	24	P M S V	
18	0.0	1115	Brown wet large gravel with silt and sand, loose, poorly sorted	24	24	P M S V	
20	0.0	1120	SAA	24	24	P M S V	
22							

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BORING LOG

Boring ID 133646A p.3

Project No. MN0832G

Project Name Former Sperry Remington

Location Elmira, NY

Drilling Co. Cascade

Driller/helper(s)

Rig type Geoprobe

Geologist

Drilling Method Direct Push

Borehole Dia. 1.5"

Depth to Water

Date

MS/MSD

Duplicate

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
22	0.0	1125	Brown wet gravel with silt and some sand, loose, poorly sorted	24	24	P M S V	
24	0.0	1130	SAA	24	24	P M S V	
26	0.0	1135	SAA	24	24	P M S V	
28	0.0	1140	SAA	24	24	P M S V	
30	0.0	1145	SAA	24	24	P M S V	
32							

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BORING LOG B364GA p. 4 of 4

Project No. MN0832G

Geosyntec consultants

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
32							
	1150	0.0	SAA	24	24	P M S V	
34							
	1155	0.0	SAA, wet Brown, wet, silty sand, wet, medium dense, coarse grained	24	24	P M S V	
36							
	1200	0.0	Brown, wet, silty sand, wet, medium dense, coarse grained	24	24	P M S V	
38							
	1205	0.0	Gray brown clay, medium stiff, moist medium plasticity	24	24	P M S V	
40							
			EOB @ 40'				

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BORING LOG

Geosyntec consultants

Boring ID: B3852
Project No.: MN0832G
Project Name: Former Sperry Remington
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s):
Rig type: Geoprobe

Geologist: Lena Nyblade
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 9/16/21
MS/MSD:
P, M, S, V → Duplicate: DUP-11 (2-4)
→ DUP-12 (4-6)
→ DUP-13 (6-8)

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
0	0.17						
	0.0	730	Brown clay and organics, moist, dense	2	2	P M S V	
0.17							
	0.0	735	Brown silt with some large angular gravel and organics Moist, loose	24	24	D M S V EC	
2							
	0.0	740	Sandy silt, brown, some small gravel, loose Bottom transitions to silty clay DUP-11 (6)	24	14	P M S V	
4							
		745	Brown silt with large angular gravel, dry, loose DUP-12 (6)	24	14	P M S V	
6							
		750	Brown wet large gravel with silt, loose DUP-13 (6)	24	14	P M S V	
8							

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BORING LOG

Project No. MN0832G

Geosyntec consultants

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
8	0.0	7552 *Special time*	Fine to coarse sand, moist, loose, brown	24	14	P M S V	
10	0.0	755	Coarse sand, wet transitions to medium gravel with silty clay, poorly sorted	24	20	P M S V	
12	0.0	0800	Brown silt with gravel, loose, dry	24	24	P M S V	
14	0.0	0805	Poorly sorted gravel with silt, and sand, brown, loose, wet	24	17	P M S V	
16	0.0	0810	SAA	24	24	P M S V	
18	0.0	0815	SAA, medium gravel and silt	24	24	P M S V	
20		0820	SAA, sand with medium gravel			P M S V	
22							

Geosyntec consultants

BORING LOG

Boring ID: B3852
Project No.: MN0832G
Project Name: Former Sperry Remington
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s):
Rig type: Geoprobe

Geologist:
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date:
MS/MSD:
Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
22	0.0	825	Coarse sand with small gravel, wet, loose, poorly sorted	24	24	P M S V	
24	0.0	0830	Poorly sorted medium angular gravel, with some silt and sand, wet, loose	24	24	P M S V	
26	0.0	0835	SAA	24	24	P M S V	
28	0.0	0840	SAA, sand with gravel	24	24	P M S V	
30		0845	SAA	24	24	P M S V	
32							

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BORING LOG

Project No. MN0832G

Geosyntec consultants

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
32	0.0	850	SAA	24	24	P M S V	
34	0.0	0855	SAA	24	24	P M S V	
36	0.0	0900	SAA	24	24	P M S V	
38	0.0	905	SAA	24	24	P M S V	
40	0.0	910	wet clay with sand, poorly sorted, stiff	24	24	P M S V	
42	0.0	915	Poorly sorted sand and gravel, brown, wet, loose	24	24	P M S V	
44	0.0	920	SAA with some clay at the bottom	24	24	P M S V	
46							

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BORING LOG

Geosyntec consultants

Boring ID: B3852 (cont.) p.5

Project No.: MN0832G

Project Name: Former Sperry Remington

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s):

Rig type: Geoprobe

Geologist:

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 16/Sep

MS/MSD:

Duplicate:

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
46	0.0	0925	0-10" Gray and brown clay and cobbles, some silt, loose, wet, very low recovery	24	10	P M S V	
48	0.0	0930	0-10" SAA	24	10	P M S V	
50		1350	SAA	24	24	P M S V	
52		1326	SAA	24	24	P M S V	
54		1325	SAA Refusal at 56 ft no further samples collected	24	12	P M S V	
56			E.O.B.				

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BORING LOG

Geosyntec consultants

Boring ID: B3853

Project No.: MN0832G

Project Name: Former Sperry Remington

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s):

Rig type: Geoprobe

Geologist:

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water:

Date: 09/16/21

MS/MSD: —

Duplicate: DUP-14(M) (6-8)

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
0			NO SAMPLE				
6	0.0	1400	Brown silty sand w/ gravel, poorly sorted, moist cobble @ 8ft DUP-14(2)	24	24	M	
8	0.0	1405	8-9: ~~Brown~~ SAA 9-10 Brown sand w/ little gravel, moist, poorly sorted, few silt	24	24	M (HOLD)	
10			EOB @ 10ft				

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BORING LOG

Boring ID: B3854
Project No.: MN0832G
Project Name: Former Sperry Remington
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s):
Rig type: Geoprobe

Geologist:
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 9/16/21
MS/MSD: —
Duplicate: DUP-15 (0.17-2) ^(S)

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
0			NO SAMPLE				
0.17	0.0	1240	Brown organic silt w/ clay, moist, brick debris DUP-15 (2)	24	19.5	S	
2	0.0	1245	Brown silty sand w/ little gravel, med. dense, moist, brick debris	24	24	S (HOLD)	
4	0.0	1250	SAA w/ 6" of brick from 5.5ft-6ft	24	20	M	
6	0.0	1255	SAA w/ some gravel, brick debris throughout	24	19	M	
8							

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BORING LOG

Project No. MN0832G

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Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
8	0.0	1300	Brown silty sand w/ gravel, moist. Poorly sorted	24	24	M	
10			EOB @ 10ft				

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BORING LOG

Boring ID: B4162
Project No.: MN0832G
Project Name: Former Sperry Remington
Location: Elmira, NY
Drilling Co.: Cascade
Driller/helper(s): Jeff + Yusit
Rig type: Geoprobe

Geologist: A. Valtad
Drilling Method: Direct Push
Borehole Dia.: 1.5"
Depth to Water:
Date: 17/Sep/2021
MS/MSD: -10 (PMSV) @ 8 - 10
Duplicate: -17 (PMSV) @ 12 - 14

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
0			No sample collected, per sampling plan				
2	0.0	1200	0-12 Gray sandy silt, trace gravel, dry, some organics, poorly sorted 12-24 Brown sandy silt, trace gravel, trace clay, damp, poorly sorted	24	24	P M S V EC	
4	0.0	1205	0-24" Gray and brown silty sand with gravel, dry, poorly sorted, rounded gravel, sand medium to coarse grained	24	24	P M S V	
6	0.0	1210	0-24 SAA, but gray and tan	24	24	P M S V EC	
8	0.0	1215	SAA MS/MSD-10 (16)	24	24	P M S V	
10							

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BORING LOG

Project No. MN0832G

B4162 (cont.)

Geosyntec consultants

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (Inches)	Recovery (Inches)	Analytes	Depth (ft)
10	0.0	1220	10-11: SAA 11-12: Brown Sand, poorly sorted, moist, few gravel's silt	24	24	P M S V EC	
12	0.0	1225	Brown silty sand w/ little gravel, poorly sorted moist DUP-17(6)	24	24	P M S V	
14	0.0	1230	SAA	24	24	P M S V	
16	0.0	1235	Brown wet gravel with sand and silt, poorly sorted, loose	24	24	P M S V	
18	0.0	1240	SAA	24		P M S V	
20			E.O.B				

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BORING LOG

Geosyntec consultants

Boring ID: B4163

Project No.: MN0832G

Project Name: Former Sperry Remington

Location: Elmira, NY

Drilling Co.: Cascade

Driller/helper(s): Joey

Rig type: Geoprobe

Geologist: A. Wahrend

Drilling Method: Direct Push

Borehole Dia.: 1.5"

Depth to Water: 22

Date: [illegible]/Sep/2021

MS/MSD: –

Duplicate: -18 (PMSV) @ (2-4) → 6

-19 (PMSV) @ (4-6) → 6

Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
0	–		No sample collected	–	–	–	
2	0.0	1300	Brown, gravelly sand w/ silt, dry, no sheen, no odor, medium dense, poorly sorted DUP-18 (6 Jars)	24	12	PMSV	
4	0.0	1305	SAA, with small to medium gravel DUP-19 (6 Jars)	24	12		
6	0.0	1310	SAA, low recovery	24	8		
8	0.0	1315	Brown silt, dry, with sand and medium gravel medium dense, poorly sorted	24	21		
10							

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BORING LOG

Project No. MN0832G

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Depth (ft)	PID (ppm)	Sampling Time	Lithologic Description	Run (inches)	Recovery (inches)	Analytes	Depth (ft)
10	0.0	1320	SAA with medium gravel	24	24	D M S V	
12	0.0	1325	SAA, dry	24	18		
14	0.0	1330	SAA, moist but not wet	24	18		
16	0.0	1335	SAA	24	19		
18	0.0	1340	poorly sorted gravel with silt, medium dense, wet	24	22		
20			EOB @ 20' bgs				

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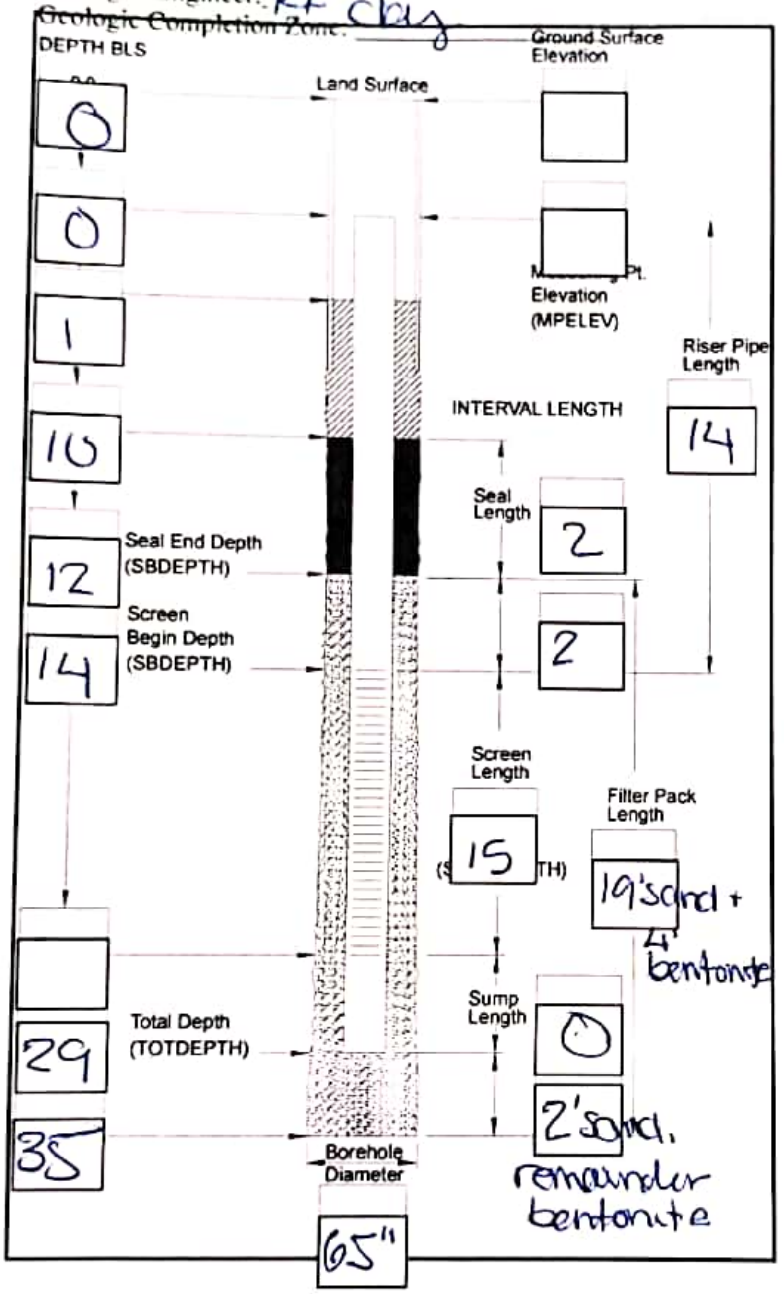
Geosyntec consultants

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21044

Well I.D.: MW-48
Drilling Company: Cascade
Driller: MN03320
Geologist/Engineer: KK Clay
~~Geologic Completion Zone:~~



Notes:
1. Drawing not to scale
2. Units are in feet

Site: Elmira, NY
Installation Method: Sonic KK
Casing Installation Date: ~~1/22/21~~ 1/22/21
Well Type: flush mount
Well Completion Method:

Well Completion
Guard Posts: ☐ Yes ☑ No Date: 1/22/21
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: 1/22/21
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/22/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco pure gold
Set-up/Hydration Time: 1335
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Hollister
Amount Used: 3.5 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Cody

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

Geosyntec consultants

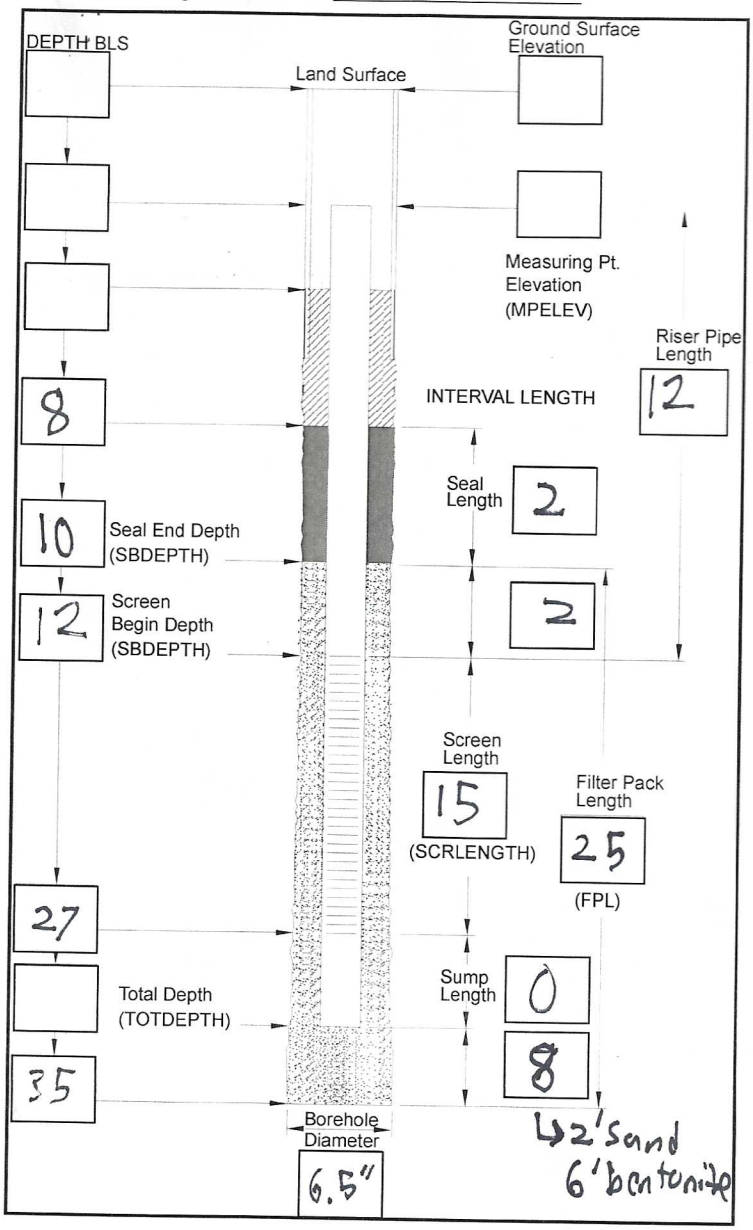
engineers | scientists | innovators

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-49
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: A. Jennings
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 2/5/21
Well Type: Flush Mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: _____
Surface Pad Size: _____ft x _____ft x _____ inches thick

Protective Casing or Cover - ☐ None
Diameter: _____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: _____ Weep Hole: ☐ Yes ☐ No

Grout – Date: _____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal - Date: 2/5/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: _____ ☐ Other: _____
Source/Brand: Ceto pure gold
Set-up/Hydration Time: _____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Vol. Fluid Added: 20 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: _____
Source/Brand: Hollistun
Amount Used: 4 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: _____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: _____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Vista

Backfill Plug ☐ Yes ☐ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____
Set-up/Hydration Time: _____

Total Water Volume During Construction
Introduced: _____gallons Recovered: _____ gallons

Comments:

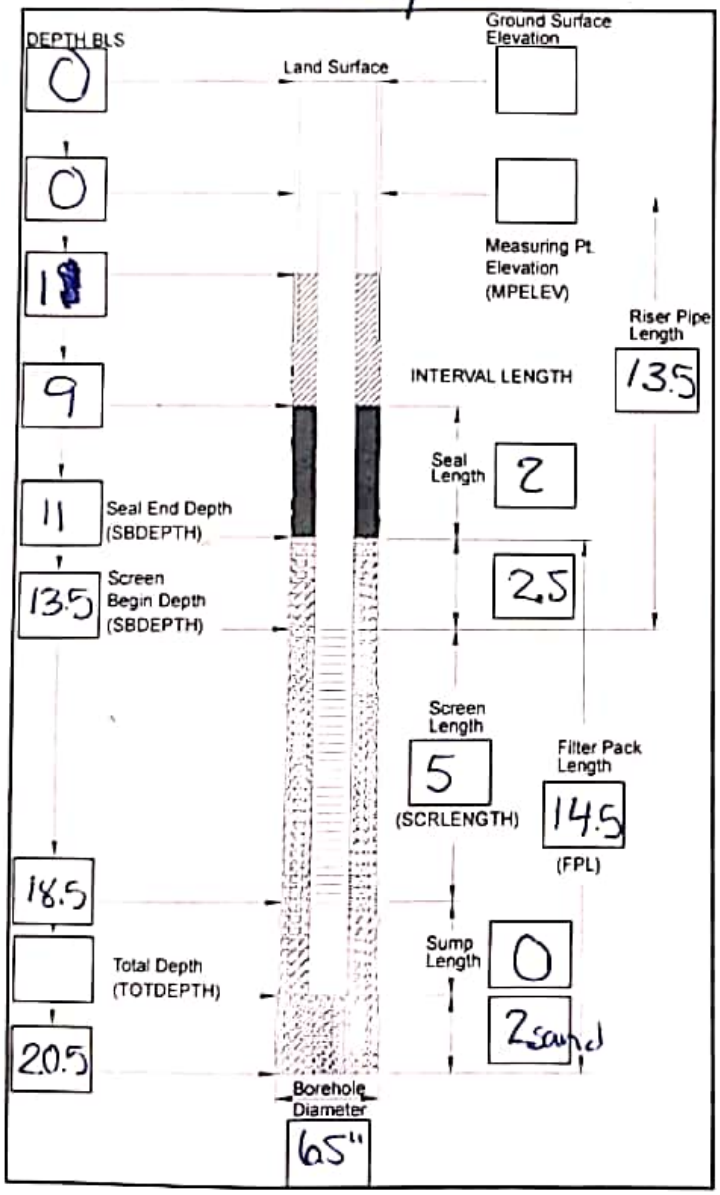
Geosyntec consultants

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-505
Drilling Company: Cascade
Driller: Mustrulle and Frank
Geologist/Engineer: K Kimmey
Geologic Completion Zone: Clay

Site: Elmira, NY
Installation Method: sonic
Casing Installation Date: 1/21/21
Well Type: flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: 1/22
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: 1/22
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco puregold
Set-up/Hydration Time: ~~1220~~ 1450
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Hanson
Amount Used: 3 ☑ bags ☐ pounds 50 lb bags
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

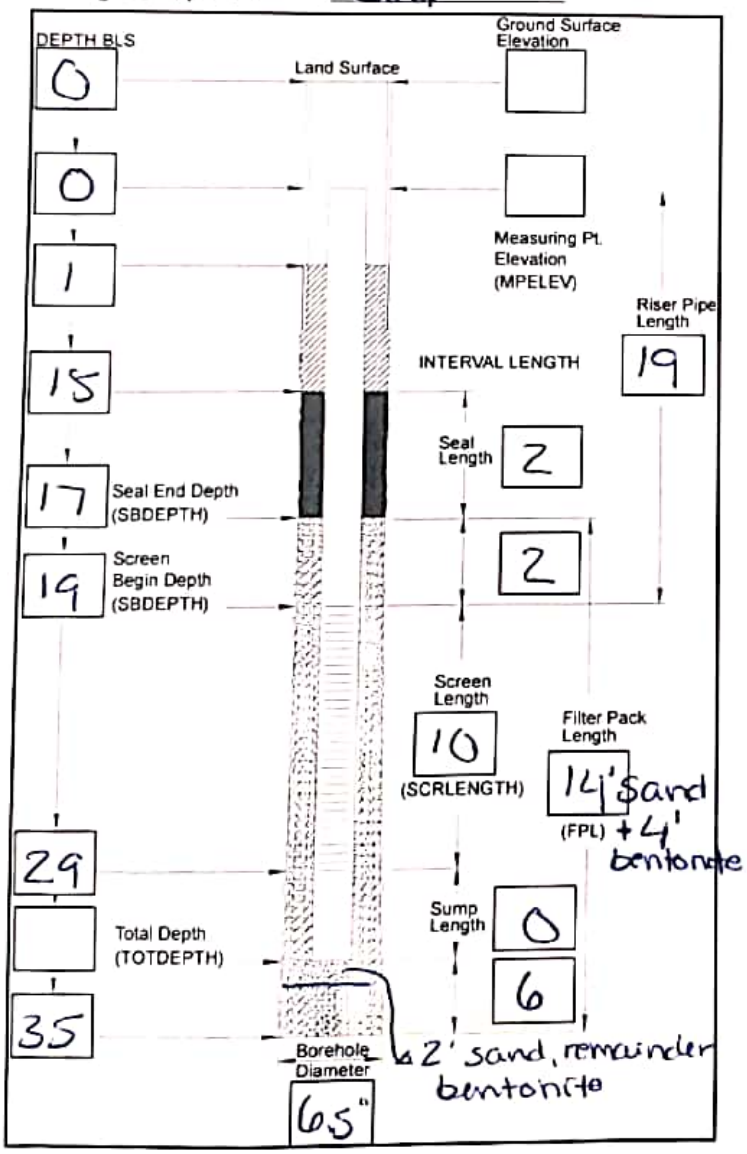
Geosyntec consultants

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-50I
Drilling Company: Cascade
Driller: Frank and Marshall
Geologist/Engineer: K Kimmey
Geologic Completion Zone: Clay

Site: Elmira, NY
Installation Method: sonic
Casing Installation Date: 1/21
Well Type: flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: 1/22
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: 1/22
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco pure gold
Set-up/Hydration Time: 1220
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Holliston
Amount Used: 3 ☑ bags ☐ pounds 50lb bags
Placement Method: ☐ Pressure Tremie ☐ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 5.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Set-up/Hydration Time: 1150

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

Geosyntec consultants

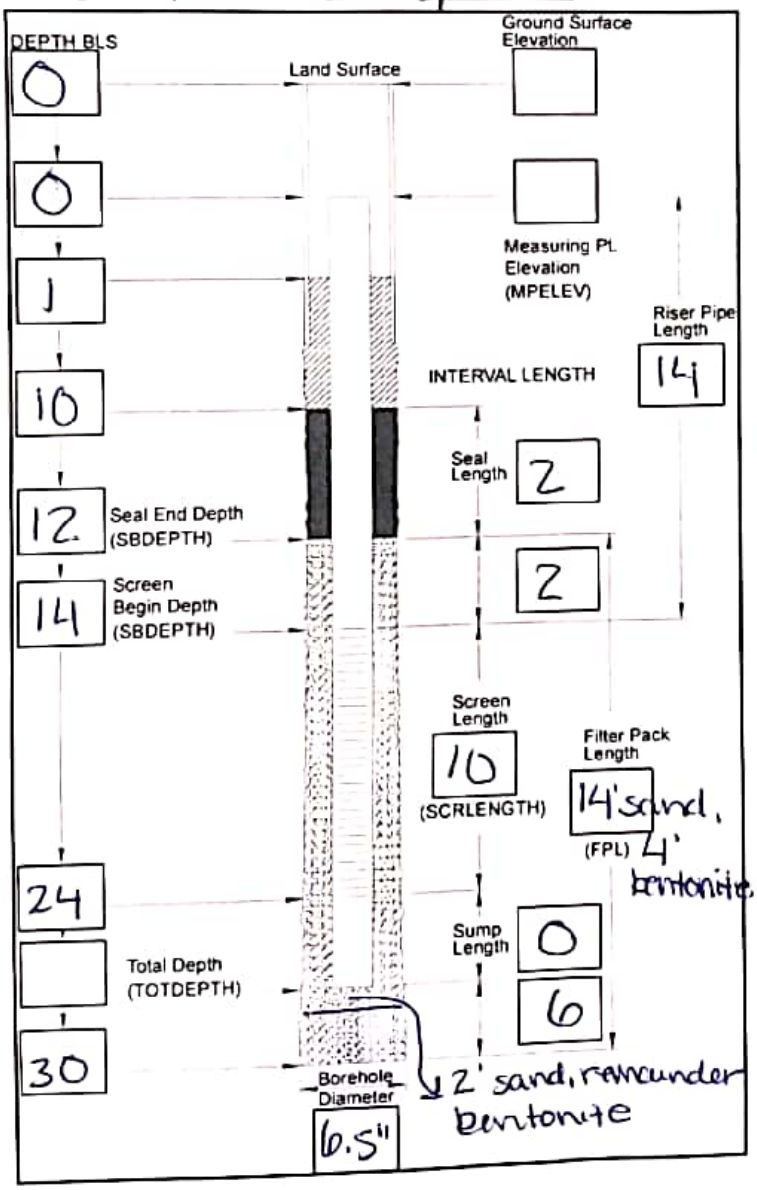
Engineers | Scientists | Innovators

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-51
Drilling Company: Cascade
Driller: Marshall + Frank
Geologist/Engineer: K. Kimmy
Geologic Completion Zone: Clay

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 1/21/21
Well Type: Flush Mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: ____
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: 1/22
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco pure gold
Set-up/Hydration Time: 0920 1/22
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Hollston
Amount Used: 4 ☑ bags ☐ pounds 50lb. bags
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Kosy

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Set-up/Hydration Time: 1550 1/21

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

Geosyntec consultants

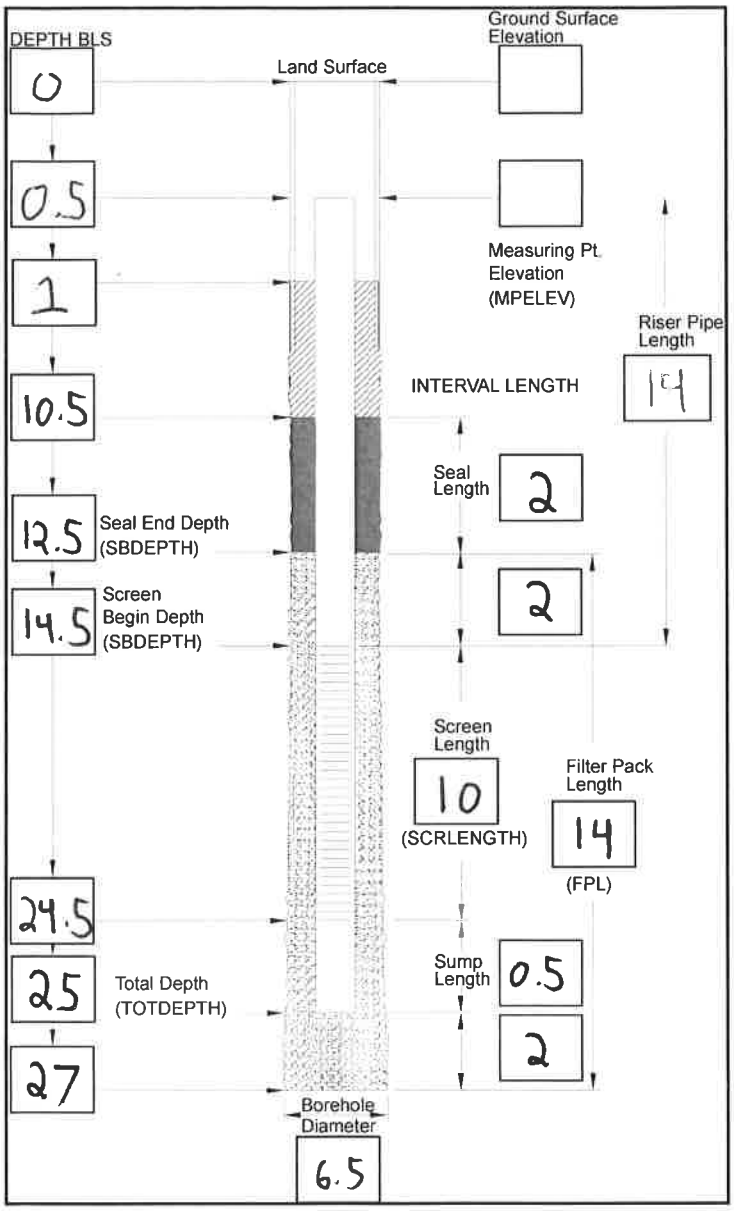
engineers | scientists | innovators

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-52
Drilling Company: Cascade
Driller: Rich + Roger
Geologist/Engineer:
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Geoprobe HSA
Casing Installation Date: _____
Well Type: Flush Mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: ____
Surface Pad Size: ____ft x ____ft x ____ inches thick

Protective Casing or Cover - ☐ None
Diameter: ____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: ____ Weep Hole: ☐ Yes ☐ No

Grout – Date: 1/21/20
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/20/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: ____
Set-up/Hydration Time: 1500 - Hydrated overnight
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 1 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: FilPro
Amount Used: ____ ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☐ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Hole Products

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____gallons Recovered: ____ gallons

Comments: Clay aquitard at 24' bgs
4.5" ID 6.5" OD HSA

Geosyntec consultants

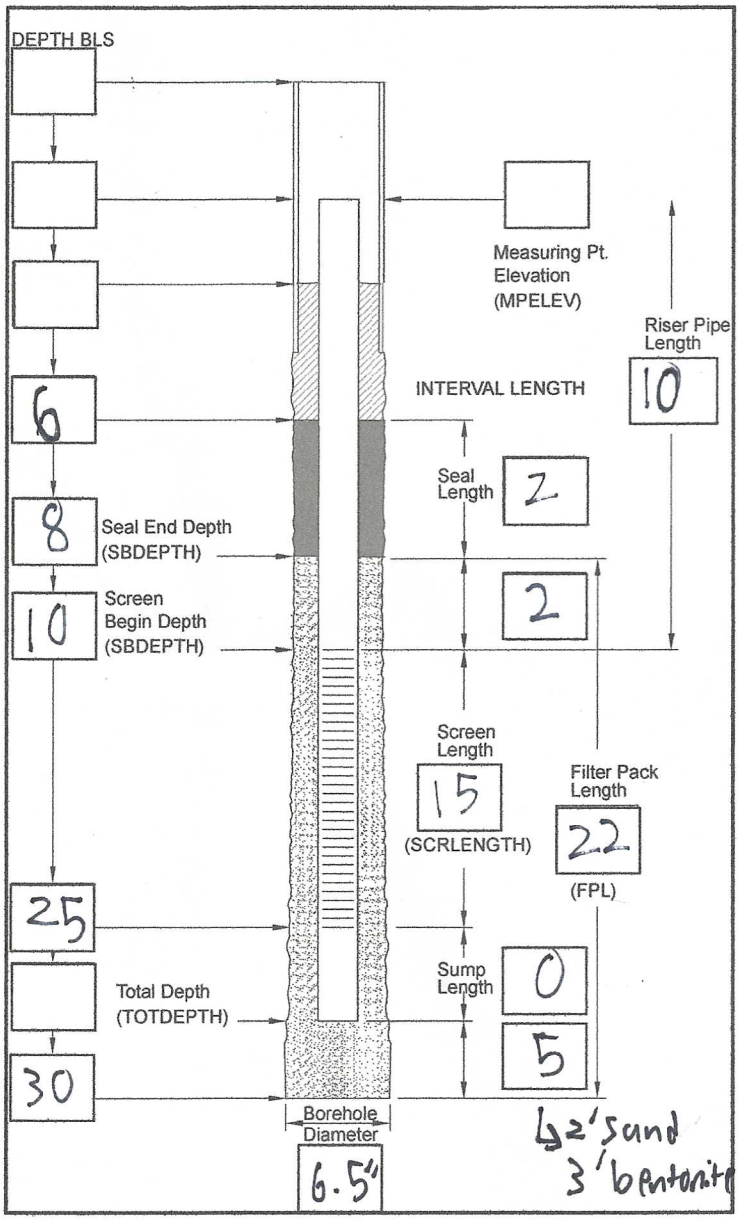
engineers | scientists | innovators

Well Construction Log – Stickup

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-53
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: A. Jennings
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 2/5/21
Well Type: Flush Mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: _____
Surface Pad Size: _____ft x _____ft x _____ inches thick

Protective Casing or Cover - ☐ None
Diameter: _____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: _____ Weep Hole: ☐ Yes ☐ No

Grout – Date: _____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal - Date: 2/5/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: _____ ☐ Other: _____
Source/Brand: Ceto pure gold
Set-up/Hydration Time: _____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Vol. Fluid Added: ≥0 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: _____
Source/Brand: Hollister
Amount Used: 4 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: _____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: _____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Kuby

Backfill Plug ☐ Yes ☐ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____
Set-up/Hydration Time: _____

Total Water Volume During Construction
Introduced: _____gallons Recovered: _____ gallons

Comments:

Geosyntec consultants

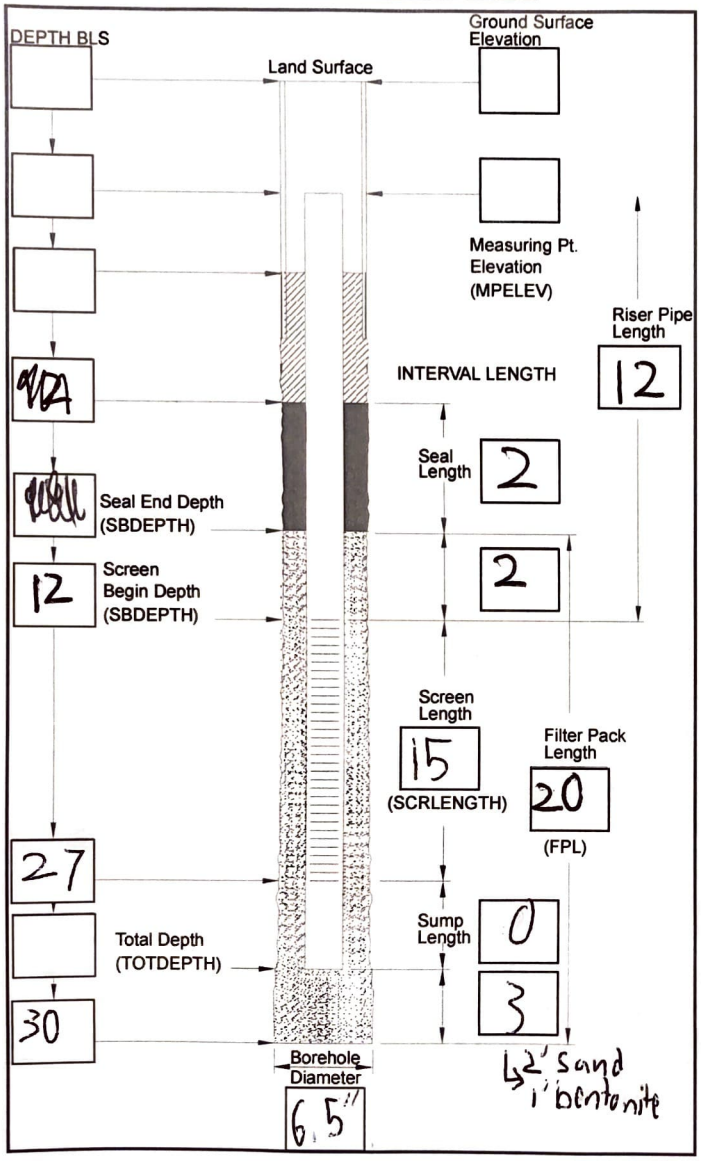
engineers | scientists | innovators

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-54
Drilling Company: Cascade
Driller: Frank, Marshal
Geologist/Engineer:
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 2/4/21
Well Type: Flush Mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: _____
Surface Pad Size: _____ft x _____ft x _____ inches thick

Protective Casing or Cover - ☐ None
Diameter: _____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: _____ Weep Hole: ☐ Yes ☐ No

Grout – Date: _____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal - Date: 2/4/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: _____ ☐ Other: _____
Source/Brand: Cetco pure gold
Set-up/Hydration Time: _____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Vol. Fluid Added: 20 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: _____
Source/Brand: Hollister
Amount Used: 34 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☐ Gravity
☐ Other: _____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: _____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☐ Yes ☐ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____
Set-up/Hydration Time: _____

Total Water Volume During Construction
Introduced: _____gallons Recovered: _____ gallons

Comments:

Geosyntec consultants

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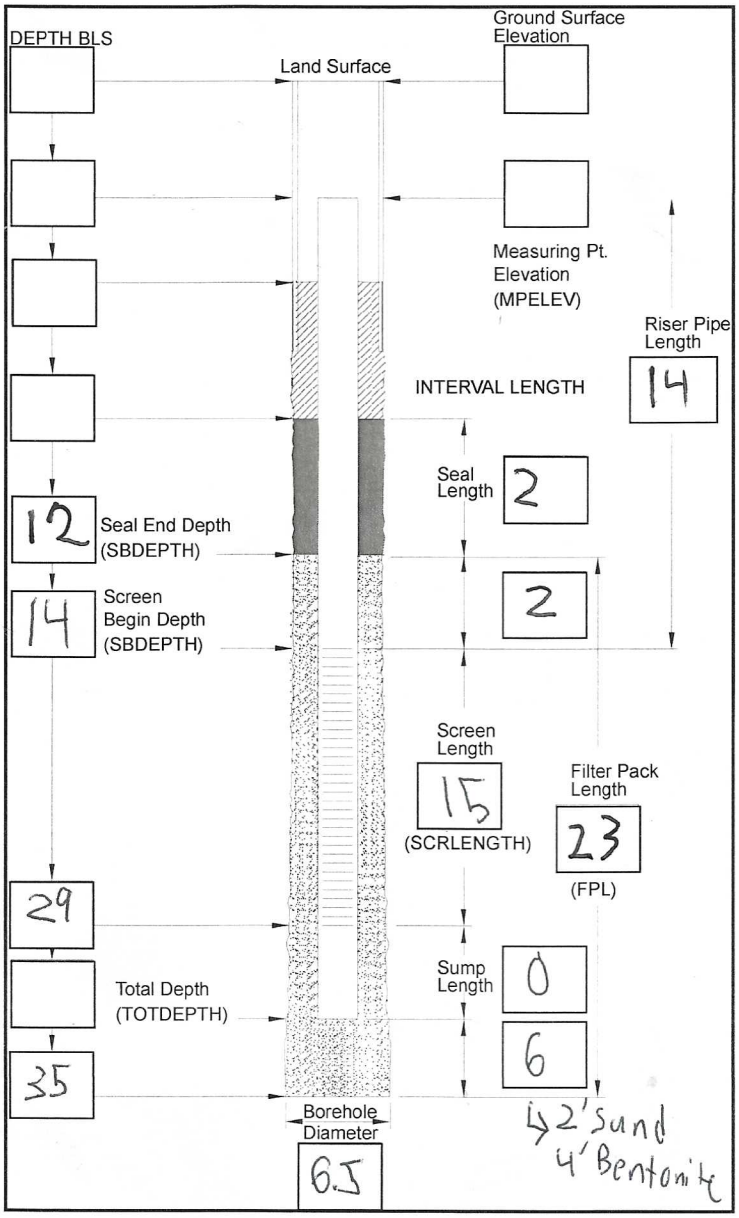
Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-55
Drilling Company: Cascade
Driller: _____
Geologist/Engineer: _____
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: _____
Casing Installation Date: _____
Well Type: _____
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: _____
Surface Pad Size: _____ft x _____ft x _____ inches thick

Protective Casing or Cover - ☐ None
Diameter: _____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: _____ Weep Hole: ☐ Yes ☐ No

Grout – Date: _____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal - Date: _____
Type: ☐ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: _____ ☐ Other: _____
Source/Brand: _____
Set-up/Hydration Time: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____
Vol. Fluid Added: _____ ☐ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: _____
Source/Brand: ~~[illegible]~~ Hollistor
Amount Used: 4 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: _____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: _____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Kelly

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Set-up/Hydration Time: _____

Total Water Volume During Construction
Introduced: _____gallons Recovered: _____ gallons

Comments:

Geosyntec consultants

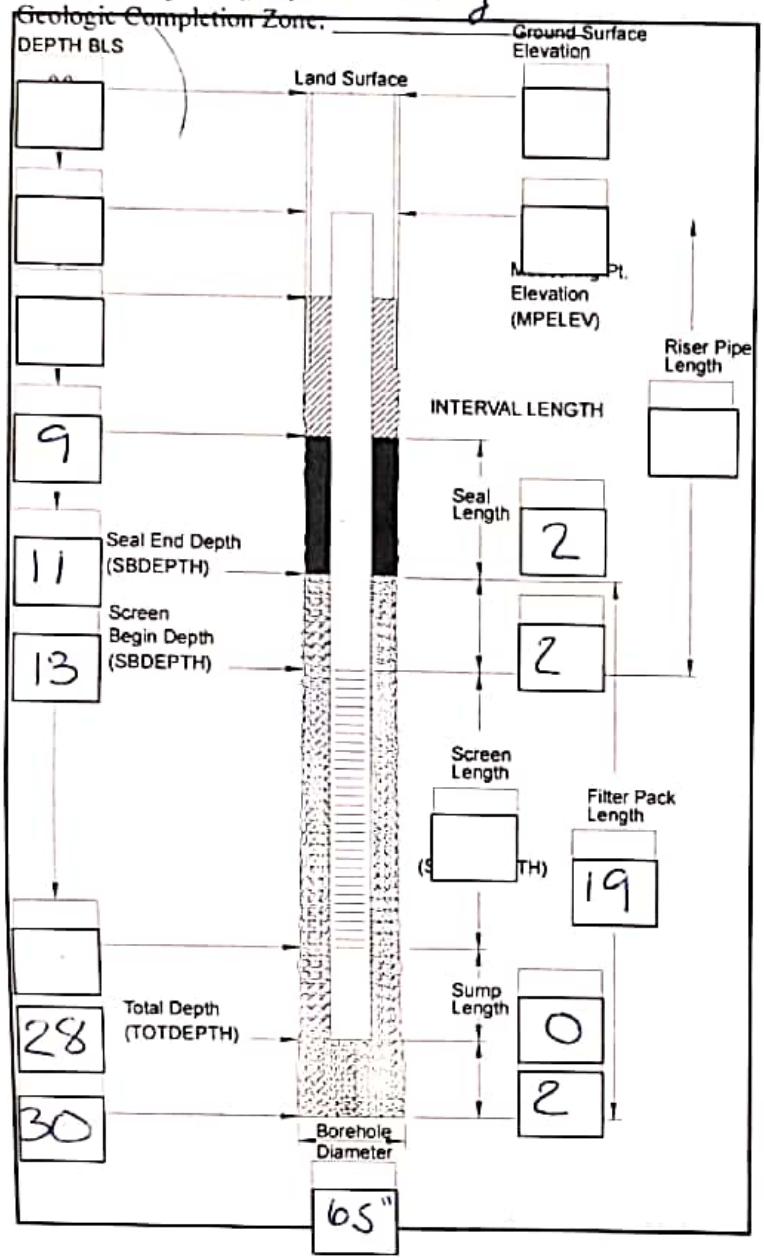
engineers | scientists | innovators

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-56
Drilling Company: Cascade
Driller: Frank + Marshall
Geologist/Engineer: K. Kimmy
~~Geologic Completion Zone:~~

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 2/5/21
Well Type: Flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: ____
Surface Pad Size: ____ft x ____ft x ____ inches thick

Protective Casing or Cover - ☐ None
Diameter: ____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: ____ Weep Hole: ☐ Yes ☐ No

Grout – Date: ____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____

Seal - Date: 2/8/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco Pure gold
Set-up/Hydration Time: 1125
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Hallston
Amount Used: 3 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☐ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Kody

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

Geosyntec consultants

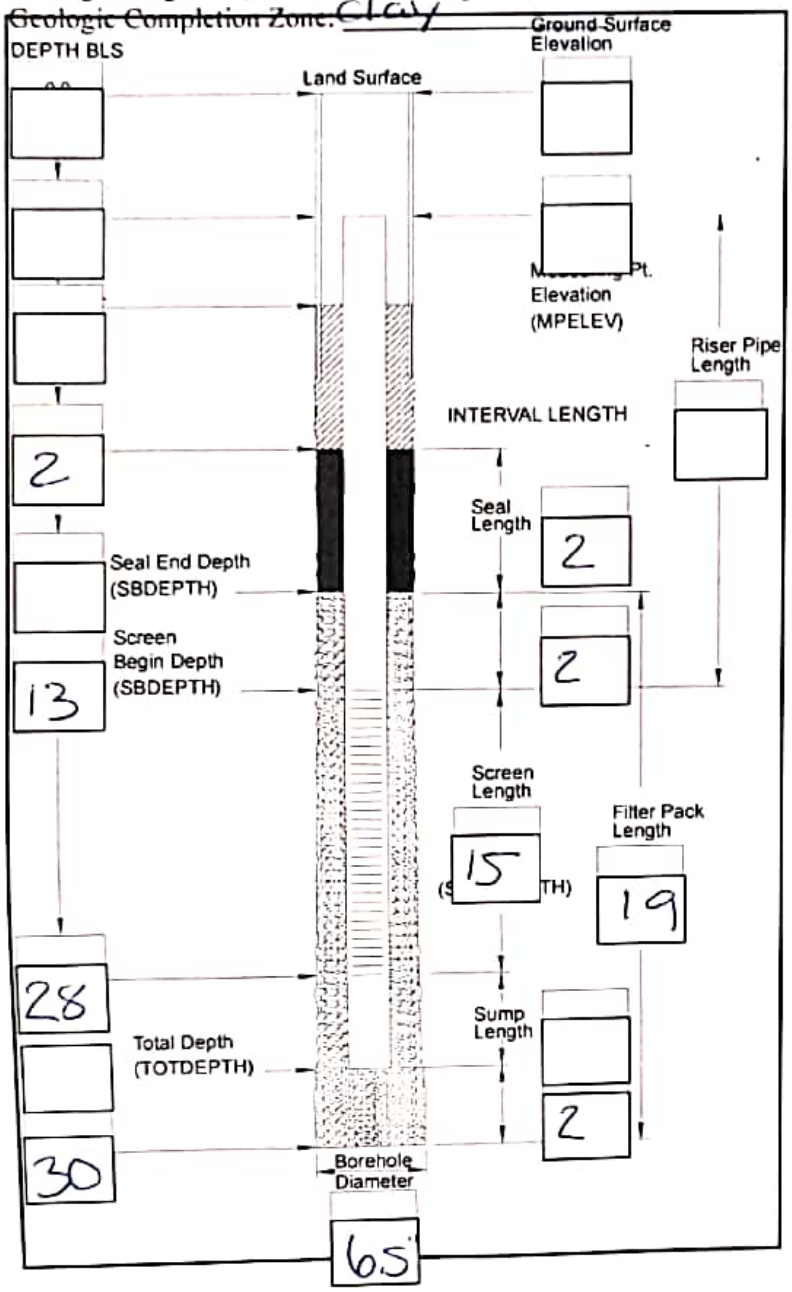
engineers | scientists | innovators

Well Construction Log – Flush Mount

10270 Old Columbia Road
Columbia, Maryland 21046

Well I.D.: MW-57
Drilling Company: Cascade
Driller: Frank + Marshall
Geologist/Engineer: K. Kimmey
Geologic Completion Zone: Clay

Site: Elmira, NY
Installation Method: 2/8/21 Sonic
Casing Installation Date: 2/8/21
Well Type: Flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: ____
Surface Pad Size: ____ft x ____ft x ____ inches thick

Protective Casing or Cover - ☐ None
Diameter: ____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: ____ Weep Hole: ☐ Yes ☐ No

Grout – Date: ____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____

Seal - Date: 2/8/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco Pureg old
Set-up/Hydration Time: 1600
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Hollston
Amount Used: 3 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____ KK
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

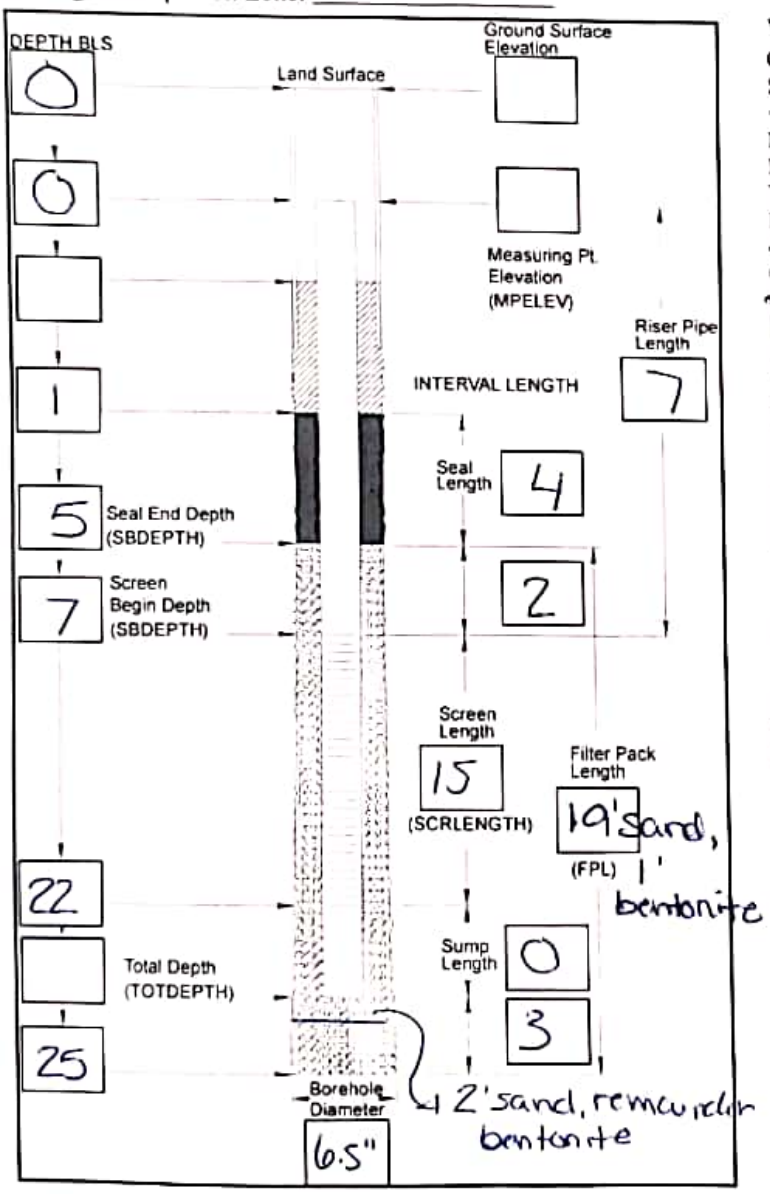
Geosyntec consultants

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-58
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: K. Kimmey
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 1/26
Well Type: Flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: 1/27
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: 1/27 this well was not grouted
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/26
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco aire gold
Set-up/Hydration Time: 1225
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Hollision
Amount Used: 3 ☑ bags ☐ pounds !!! 50 lb bags
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Set-up/Hydration Time: 0755

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

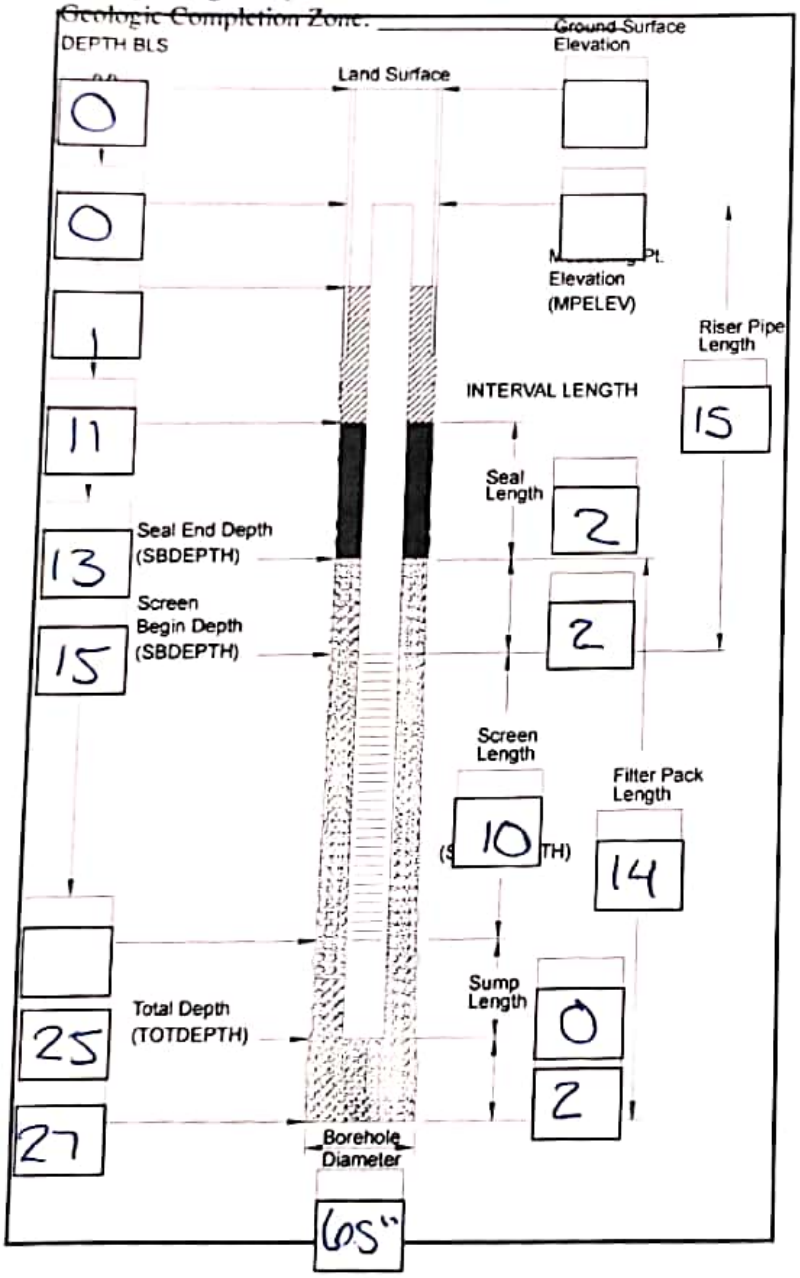
Scanned with CamScanner

Geosyntec consultants

Well Construction Log – Flush Mount

Well I.D.: MW-59S
Drilling Company: Cascade
Driller: Frank + Marshall
Geologist/Engineer: KK
~~Geologic Completion Zone:~~

Site: Elmira, NY
Installation Method: Sonic KK
Casing Installation Date: ~~2/10/21~~ 2/9/21
Well Type: flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: 2/9/21 2/10/21
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: ~~2/10/21~~ 2/9/21
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: ~~2/10/21~~ 2/9/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco Pureyield
Set-up/Hydration Time: 1345
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Vol. Fluid Added: ____ ☐ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Hollister
Amount Used: 3 ☑ bags ☐ pounds (est.)
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Kelly

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

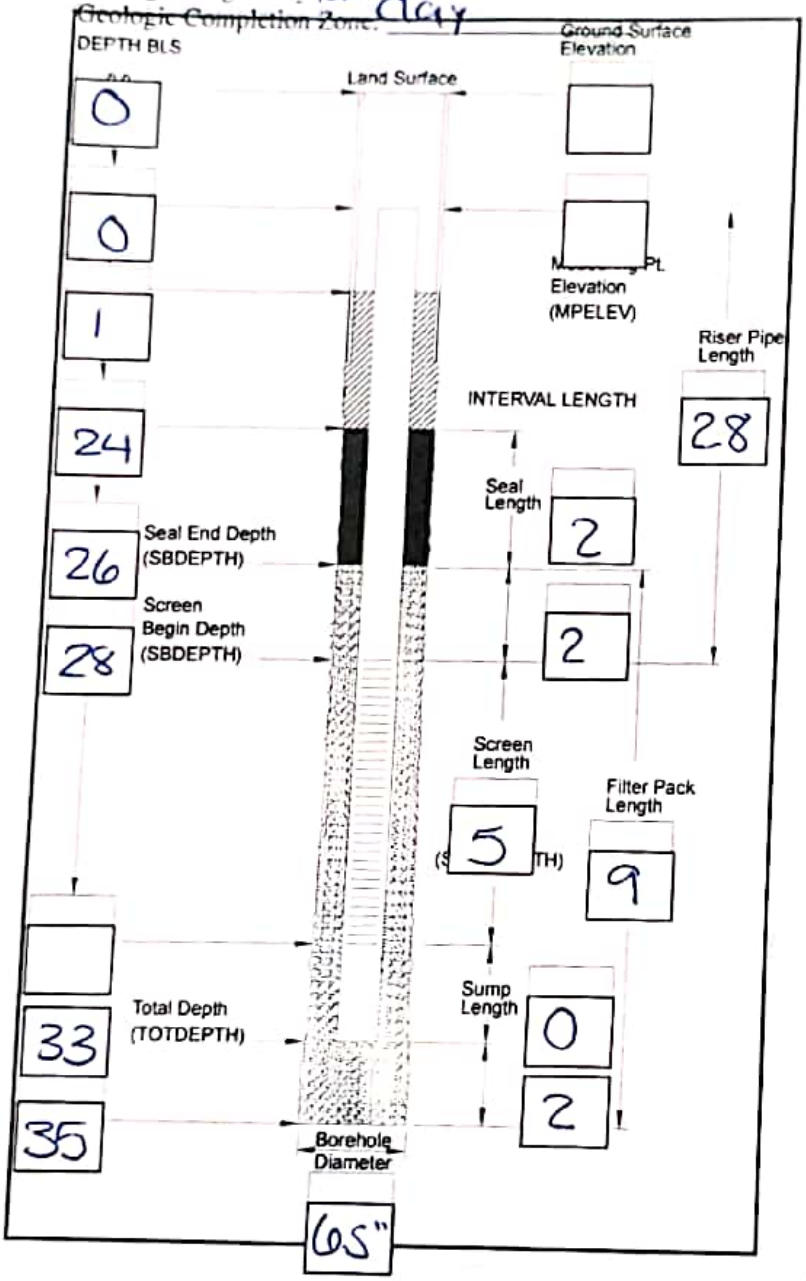
Scanned with CamScanner

Geosyntec consultants

Well Construction Log – Flush Mount

Well I.D.: MW-59I
Drilling Company: Cascade
Driller: Frank + Marshall
Geologist/Engineer: KK
Geologic Completion Zone: Clay

Site: Elmira, NY
Installation Method: Sonic KK
Casing Installation Date: 2/10/21-2/19/21
Well Type: Flushmount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date 2/19/21
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: 2/10/21-2/19/21
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 2/19/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Ceto Pyrogeld
Set-up/Hydration Time: 1 hr
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Holiston
Amount Used: 4 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 5.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

Geosyntec consultants

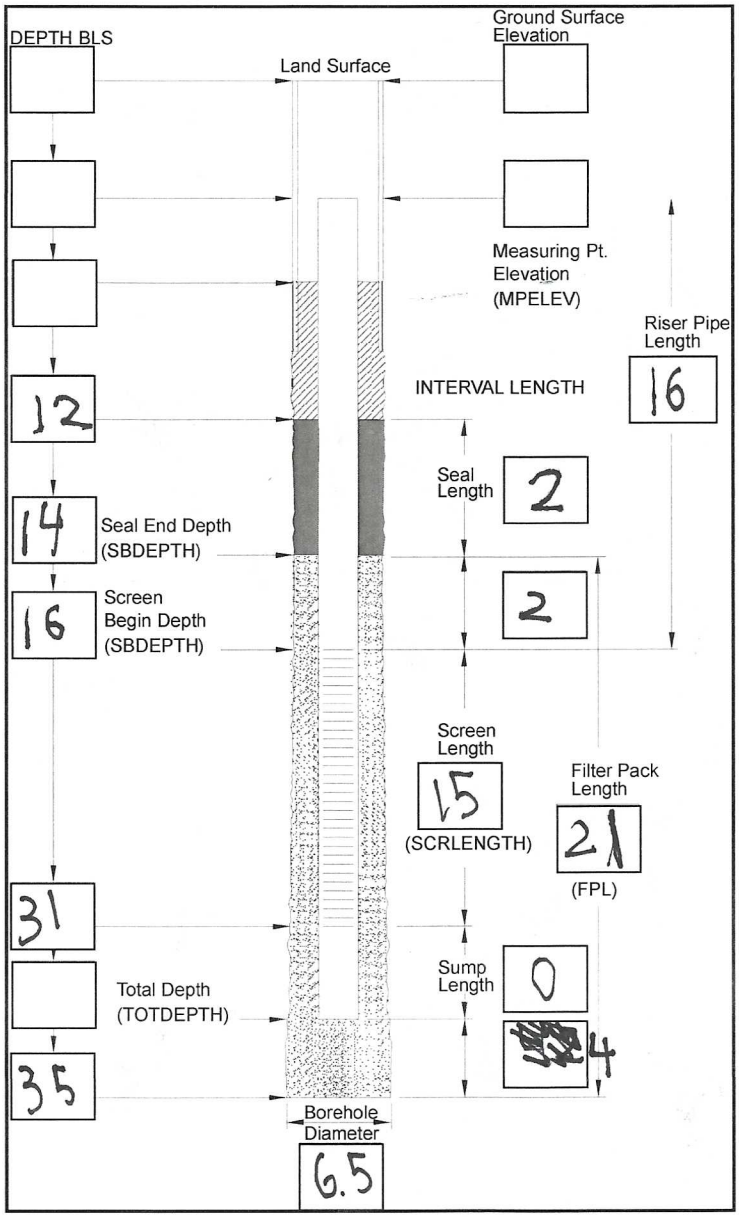
engineers | scientists | innovators

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-60
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: Austin Jennings
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 1/28/21
Well Type: Flush Mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: [redacted]
Surface Pad Size: [redacted] ft x _____ ft x _____ inches thick

Protective Casing or Cover - ☐ None
Diameter: _____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: _____ Weep Hole: ☐ Yes ☐ No

Grout – Date: _____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal - Date: 1/28
Type: ☐ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: _____ ☐ Other: _____
Source/Brand: _____
Set-up/Hydration Time: _____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: _____
Source/Brand: Hollston
Amount Used: 4 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: _____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: _____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Set-up/Hydration Time: 1600

Total Water Volume During Construction
Introduced: _____ gallons Recovered: _____ gallons

Comments:

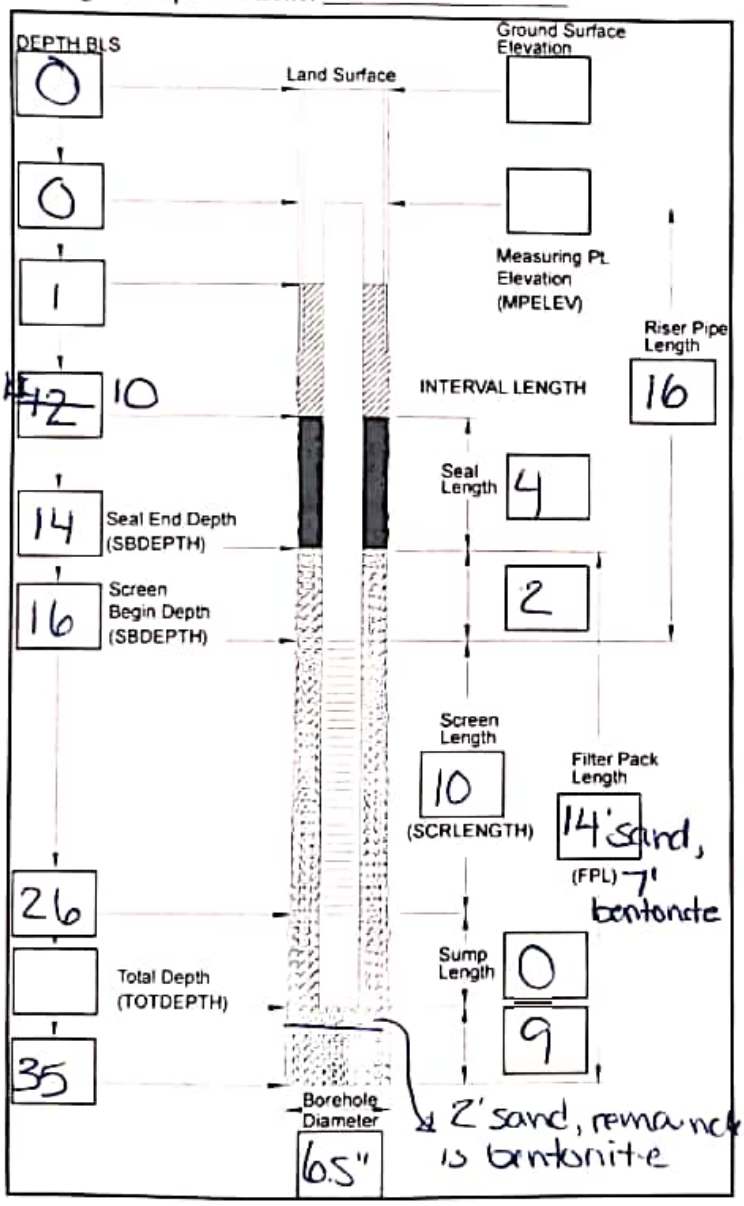
Geosyntec consultants

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-61
Drilling Company: Cascade
Driller: Frank and Marshall
Geologist/Engineer:
Geologic Completion Zone:

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 1/25
Well Type: Flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: 1/26
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☒ No

Grout – Date: 1/26
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/25
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco
Set-up/Hydration Time: 1400
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Hollister
Amount Used: 3 ☑ bags ☐ pounds 111.50 lb bags
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Set-up/Hydration Time: 1340

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

Geosyntec consultants

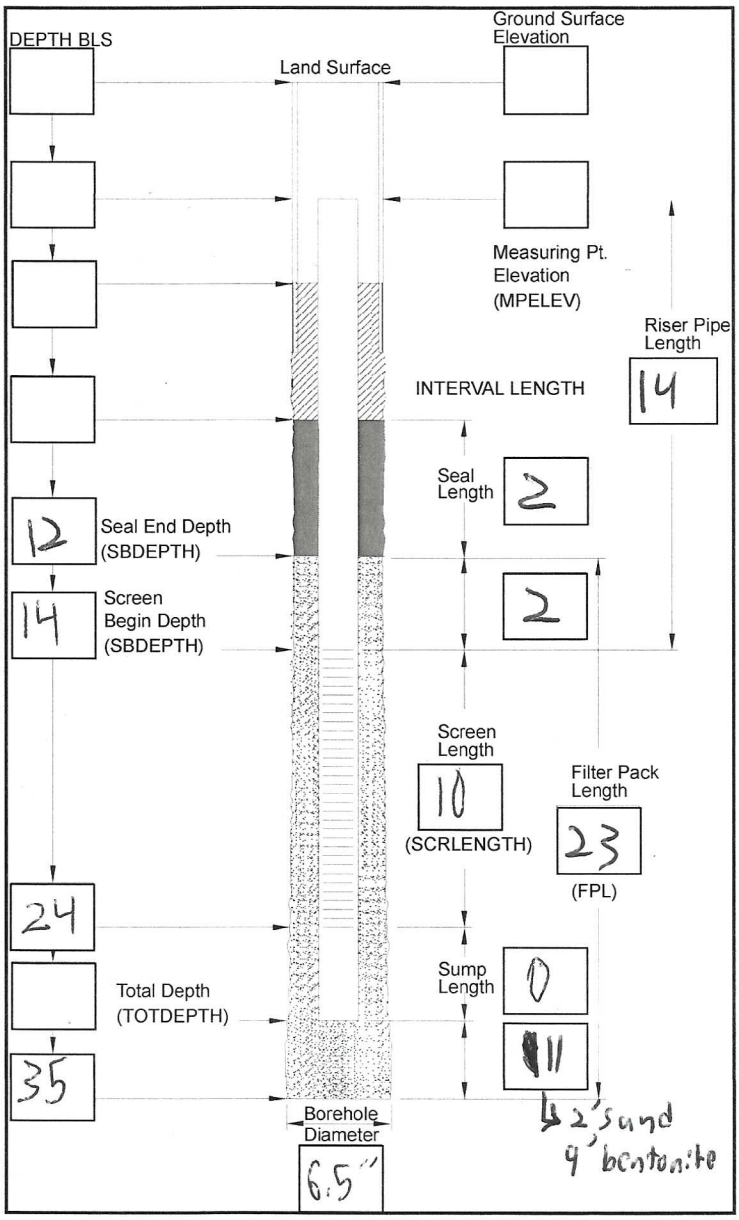
engineers | scientists | innovators

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-62
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer:
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 2/4/21
Well Type: Flush Mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: _____
Surface Pad Size: _____ft x _____ft x _____ inches thick

Protective Casing or Cover - ☐ None
Diameter: _____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: _____ Weep Hole: ☐ Yes ☐ No

Grout – Date: _____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal - Date: 2/4/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: _____ ☐ Other: _____
Source/Brand: Cetco puregold
Set-up/Hydration Time: _____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Vol. Fluid Added: 20 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: _____
Source/Brand: Hollister
Amount Used: 46 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☐ Gravity
☐ Other: _____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: _____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Keny

Backfill Plug ☐ Yes ☐ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____
Set-up/Hydration Time: _____

Total Water Volume During Construction
Introduced: _____gallons Recovered: _____ gallons

Comments:

Geosyntec consultants

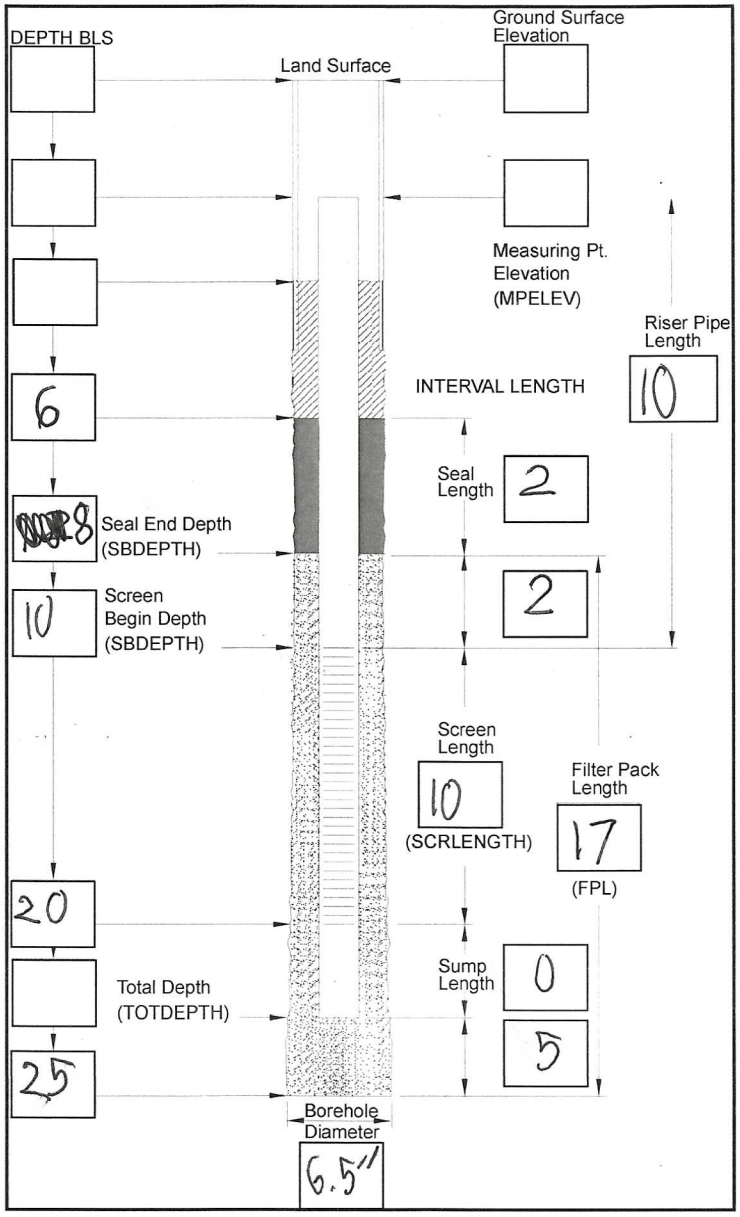
engineers | scientists | innovators

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-63S
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer:
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 1/29/21
Well Type: Flush Mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: _____
Surface Pad Size: _____ft x _____ft x _____ inches thick

Protective Casing or Cover - ☐ None
Diameter:_____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: _____ Weep Hole: ☐ Yes ☐ No

Grout – Date: _____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal - Date: 1/29/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time:_____ ☐ Other: _____
Source/Brand: Cetco pure Gold
Set-up/Hydration Time: _____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: _____
Source/Brand: Hollistop
Amount Used: 3 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: _____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: _____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Kaby

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____
Set-up/Hydration Time:_____

Total Water Volume During Construction
Introduced: _____gallons Recovered: _____ gallons

Comments:

Geosyntec consultants

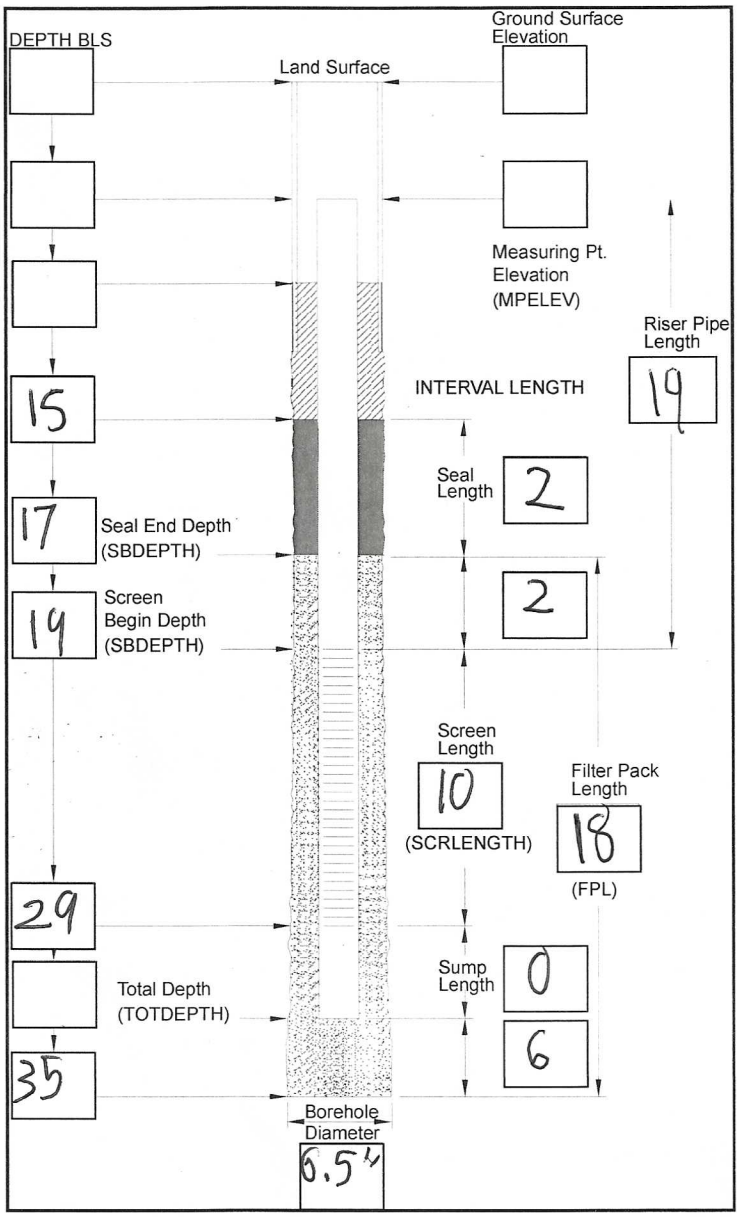
engineers | scientists | innovators

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-63I
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: Austin Jennings
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 1/29/21
Well Type: Flush Mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: _____
Surface Pad Size: _____ft x _____ft x _____ inches thick

Protective Casing or Cover - ☐ None
Diameter: _____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: _____ Weep Hole: ☐ Yes ☐ No

Grout – Date: _____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal - Date: 1/29/21
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: _____ ☐ Other: _____
Source/Brand: Cetco pure gold
Set-up/Hydration Time: _____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: _____
Source/Brand: Hollistun
Amount Used: 4 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: _____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: _____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Set-up/Hydration Time: _____

Total Water Volume During Construction
Introduced: _____gallons Recovered: _____ gallons

Comments:

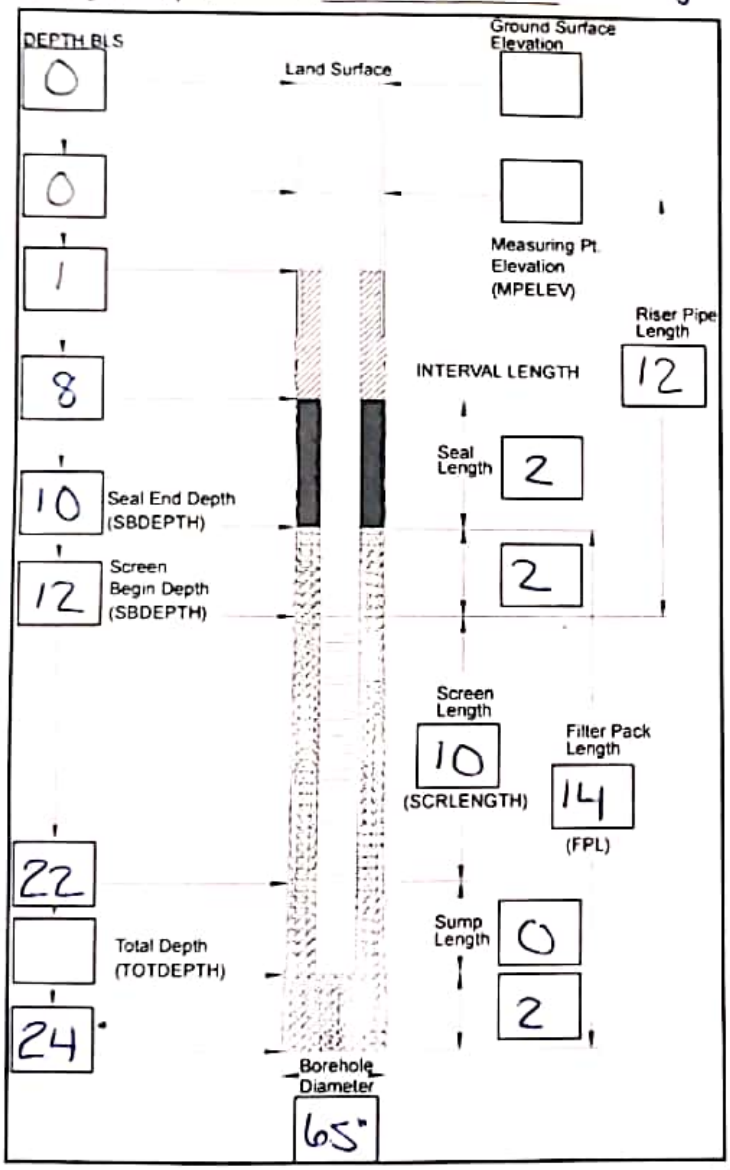
Geosyntec consultants

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-604S
Drilling Company: Cascade
Driller: Frank Marshall
Geologist/Engineer: K. Kimmey, A. Jennings
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 1/27/21
Well Type: flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: 1/26/21
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: 1/28
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/27
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco Pure gold
Set-up/Hydration Time: 1250
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Halliston
Amount Used: 2 ☑ bags ☐ pounds 50lb bags
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

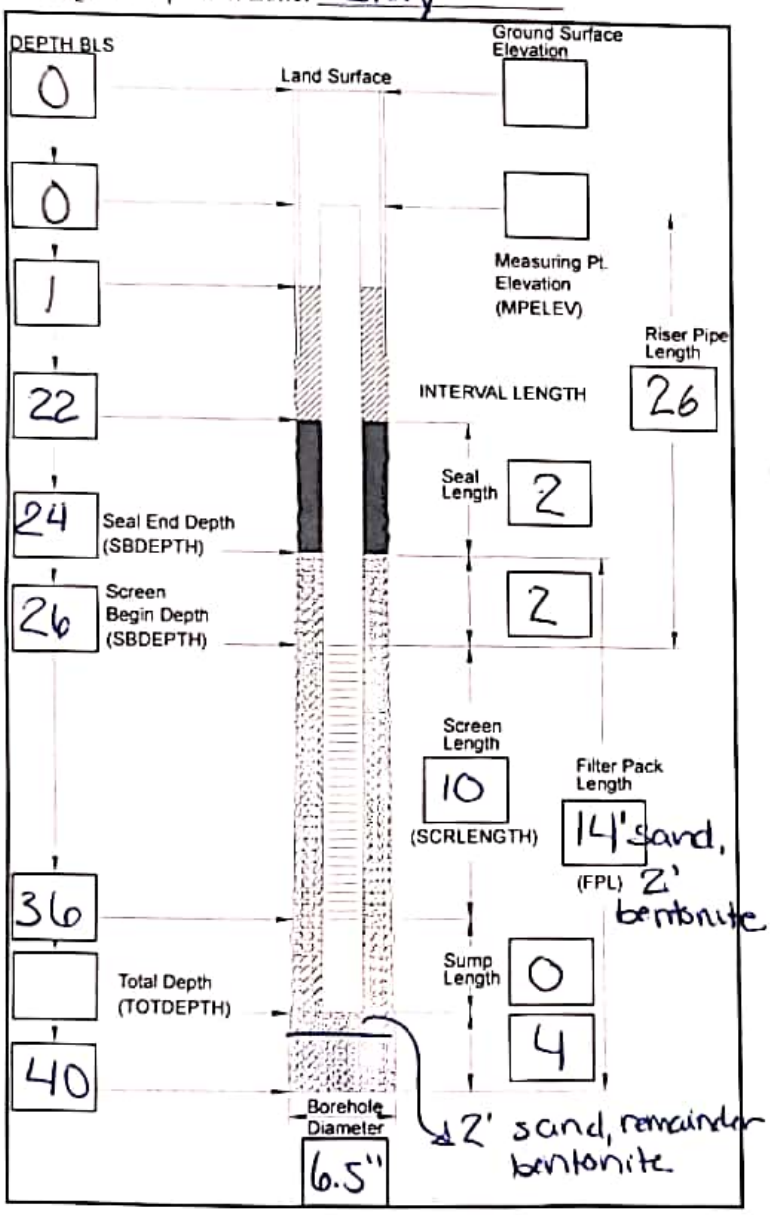
Geosyntec consultants

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-6LII
Drilling Company: Cascade
Driller: Frank + Marshall
Geologist/Engineer: K. Kimmey
Geologic Completion Zone: Clay

Site: Elmira, NY
Installation Method: sonic
Casing Installation Date: 1/26
Well Type: flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: 1/28/21
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: 1/28/21
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/26
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco pure gold
Set-up/Hydration Time: 1130
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Halliston
Amount Used: 3 ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

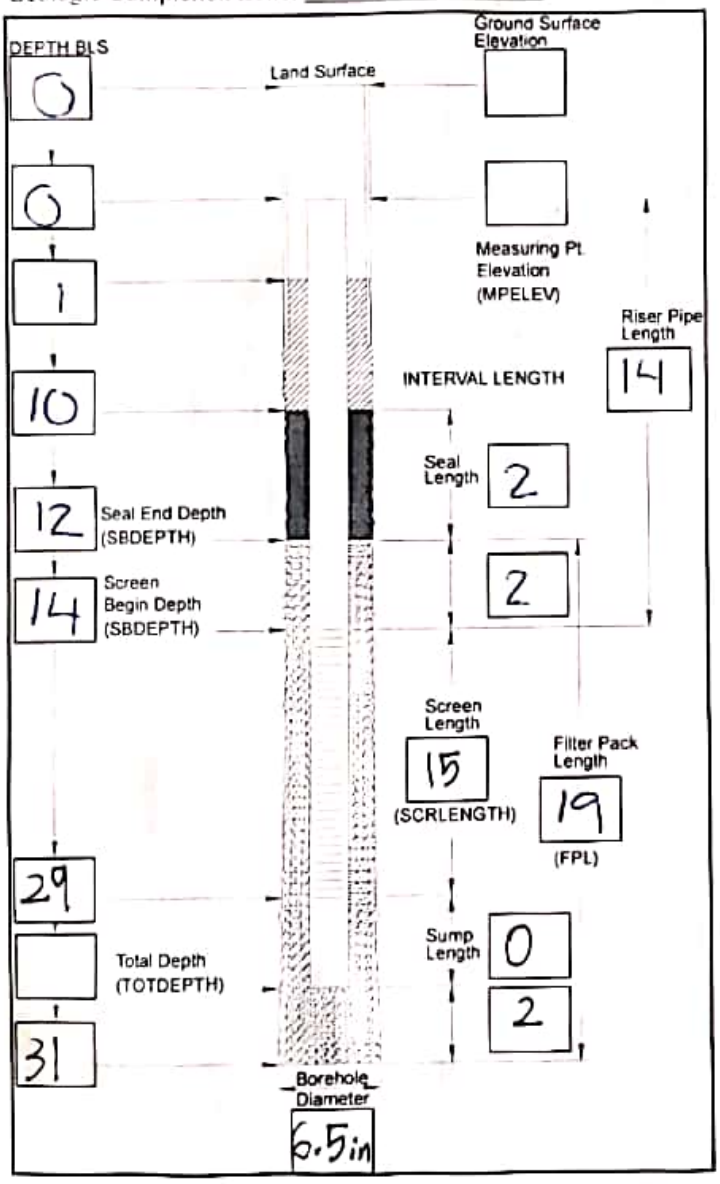
Geosyntec consultants

Well Construction Log -- Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW65
Drilling Company: Cascade
Driller: Frank
Geologist/Engineer: A. Jennings
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 1/26/21
Well Type: Flush Mount
Well Completion Method: ____



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☑ No Date: 1/27
Surface Pad Size: 2 ft x 2 ft x 12 inches thick

Protective Casing or Cover - ☐ None
Diameter: 8 inches
Type: ☑ Steel ☐ Aluminum ☐
Depth BGS: 0 Weep Hole: ☐ Yes ☑ No

Grout – Date: 1/27
Composition/Proportions:
☑ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____

Seal - Date: 1/26
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco pureguard
Set-up/Hydration Time: 1230
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Halliston
Amount Used: ____ ☑ bags ☐ pounds
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Set-up/Hydration Time: ____

Total Water Volume During Construction
Introduced: ____ gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

Geosyntec consultants

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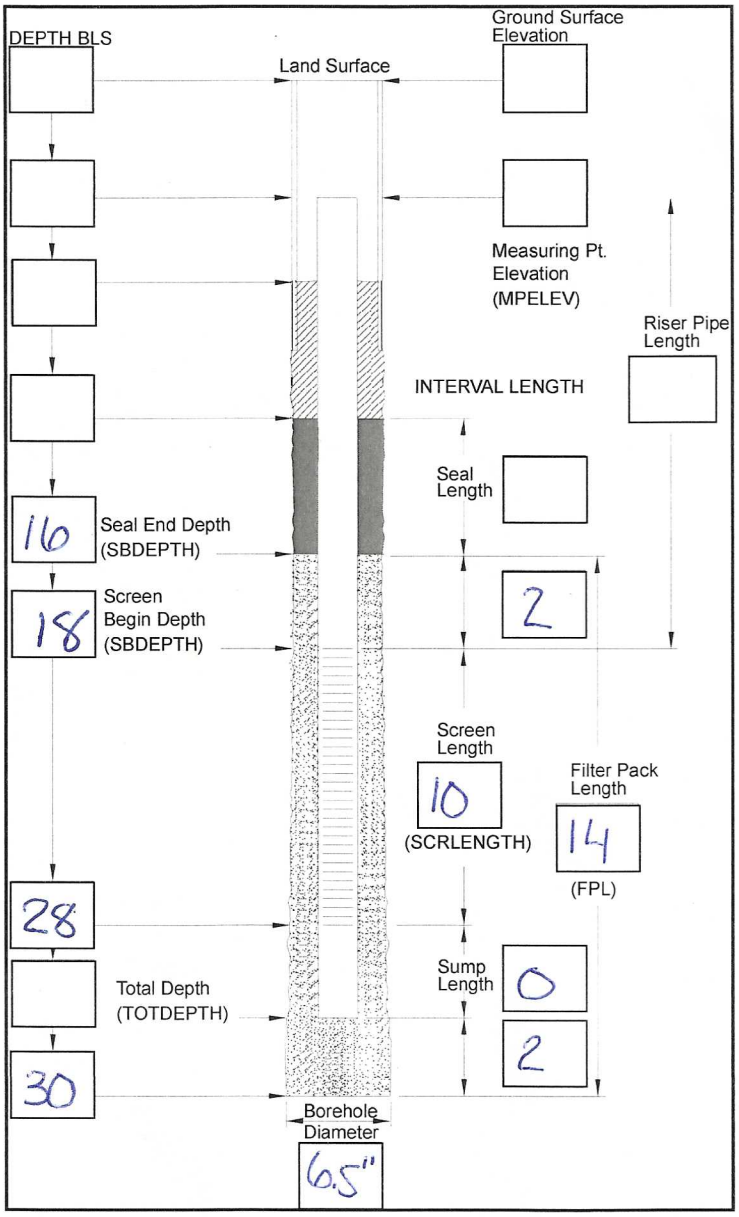
Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-6605
Drilling Company: Cascade
Driller: Frank + Marshall
Geologist/Engineer: K. Kimmey
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: Sonic
Casing Installation Date: 1/28/21
Well Type: flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: _____
Surface Pad Size: _____ft x _____ft x _____ inches thick

Protective Casing or Cover - ☐ None
Diameter: _____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: _____ Weep Hole: ☐ Yes ☐ No

Grout – Date: _____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: _____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____

Seal - Date: 1/28
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: _____ ☐ Other: _____
Source/Brand: Geico pure gold
Set-up/Hydration Time: 1020
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: _____
Vol. Fluid Added: 20 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: _____
Source/Brand: Hallston
Amount Used: 3 ☑ bags ☐ pounds 50 lb bags
Placement Method: ☐ Pressure Tremie ☑ Gravity
☐ Other: _____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: _____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: _____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: _____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: _____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Koby

Backfill Plug ☐ Yes ☑ No
Material: ☐ Grout ☐ Bentonite
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: _____
Set-up/Hydration Time: _____

Total Water Volume During Construction
Introduced: _____gallons Recovered: _____ gallons

Comments:

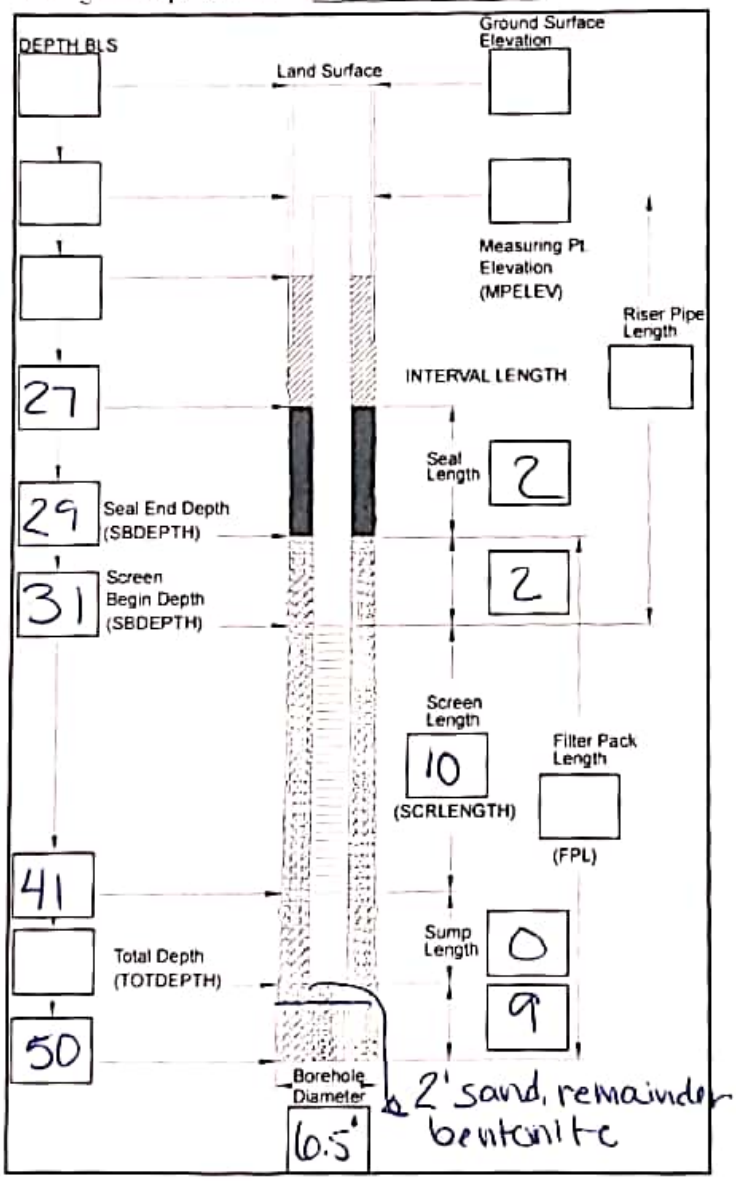
Geosyntec consultants

Well Construction Log – Flush Mount

10220 Old Columbia Road
Columbia, Maryland 201046

Well I.D.: MW-10DT
Drilling Company: Cascade
Driller: Frank and Marshall
Geologist/Engineer: K. Kimmey
Geologic Completion Zone: _____

Site: Elmira, NY
Installation Method: sonic
Casing Installation Date: 1/27
Well Type: flush mount
Well Completion Method:



Notes:
1. Drawing not to scale
2. Units are in feet

Well Completion
Guard Posts: ☐ Yes ☐ No Date: ____
Surface Pad Size: ____ft x ____ft x ____ inches thick

Protective Casing or Cover - ☐ None
Diameter: ____ inches
Type: ☐ Steel ☐ Aluminum ☐
Depth BGS: ____ Weep Hole: ☐ Yes ☐ No

Grout – Date: ____
Composition/Proportions:
☐ 95/5 Type I/Type II Cement – Bentonite Mix ☐ Other: ____
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____

Seal - Date: 1/27
Type: ☑ 3/8" Bentonite Chips ☐ Morie #00 Sand
☐ Coated Bentonite Pellets-Time: ____ ☐ Other: ____
Source/Brand: Cetco gold
Set-up/Hydration Time: 1615
Placement Method: ☐ Pressure Tremie ☐ Gravity ☐ Other: ____
Vol. Fluid Added: 15 ☑ gallons ☐ liters

Filter Pack
Type: ☐ Morie #2 Sand or equiv. ☑ Morie #1 Sand or equiv.
☐ Gravel ☐ Other: ____
Source/Brand: Hollston
Amount Used: ____ ☑ bags ☐ pounds 50lb bag
Placement Method: ☐ Pressure Tremie ☐ Gravity
☐ Other: ____

Well Riser Pipe
Material: ☑ Schedule 40 PVC – Flush Threaded Joints
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____

Screen
Material: ☑ Schedule 40 PVC – Machine Slotted
☐ Other: ____
Casing Inside Diameters: ☑ Nominal 2-inch – 2.047-inch I.D.
☐ Nominal 4-inch – 3.998-inch I.D. ☐ Other: ____
Screen Slot Size: ☑ 0.010-inch ☐ 0.020-inch ☐ Other: ____
Percent Open Area: ☑ 3.25% - 2-inch, 0.010 slot ☐ Other: ____
Sump or Bottom Cap: ☑ Yes ☐ No Brand: Kaby

Backfill Plug ☑ Yes ☐ No
Material: ☐ Grout ☑ Bentonite
Placement Method: ☐ Pressure Tremie ☑ Gravity ☐ Other: ____
Set-up/Hydration Time: 1330-1530

Total Water Volume During Construction
Introduced: ____gallons Recovered: ____ gallons

Comments:

Scanned with CamScanner

Geosyntec consultants

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BORING B3012A

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 7/26/21 **COMPLETED** 7/26/21
NORTHING 755514.3 ft **EASTING** 761910.2 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY P. Silverhart **CHECKED BY** DRAFT
NOTES

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3012A

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5					
				SAND, trace silt, trace gravel, wet, brown, subrounded gravel	
				SAND, trace silt, trace gravel, dry, brown, subrounded gravel	
15.0		SSHS-B3012A-SUB-14-16			0.2
				SAND, with gravel, trace silt, damp, brown, subangular gravel	
		SSHS-B3012A-SUB-16-18			0.1
17.5					
				Bottom of borehole at 18.0 feet.	
20.0					

10.0 12.5 15.0 17.5

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BORING B3013A

CLIENT Unisys Corporation
PROJECT NAME Former Sperry Remington
PROJECT NUMBER MN0832G
PROJECT LOCATION Elmira, New York
DATE STARTED 7/26/21 **COMPLETED** 7/26/21
NORTHING 755476.6 ft **EASTING** 761936.1 ft
DRILLER Cascade Technical Services, LLC
GROUND ELEVATION --- **BORING DIAMETER** 1.5 in
DRILLING METHOD Direct Push
TOP OF CASING ELEVATION ---
SAMPLING METHOD 2" x 5' Macrocore
UTILITY CONTRACTOR GPRS
RIG TYPE Geoprobe
LOGGED BY P. Silverhart **CHECKED BY** DRAFT
NOTES

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected	
2.5					
5.0					
7.5					

0.0 2.5 5.0 7.5

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BORING B3013A

CLIENT Unisys Corporation **PROJECT NAME** Former Sperry Remington

PROJECT NUMBER MN0832G **PROJECT LOCATION** Elmira, New York

DEPTH (ft)	RUN RECOVERY	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
				No sample collected *(continued)*	
12.5					
15.0		SSHS-B3013A-SUB-14-16		Very dense, SILTY SAND, with gravel, sand fine grained, dry, brown and tan, well graded, subangular gravel	0
17.5		SSHS-B3013A-SUB-16-18		Loose, SANDY GRAVEL, sand fine to coarse grained, wet, brown, well graded, angular gravel	0
				Bottom of borehole at 18.0 feet.	
20.0					

10.0

12.5

15.0

17.5