

November 29, 2017

Mr. Michael Belveg Project Manager NYSDEC Region 7 615 Erie Boulevard West Syracuse, New York 13204

& Associates, LLC

Re: Pass and Seymour AOC-1 Soil Borings and Soil Sample Results

Dear Mr. Belveg,

**DW Stoner** 

The purpose of this letter is to present the results of a soil boring and sampling program described in a workplan submitted to you on April 26, 2017. The intent of this sampling was to better define potential locations of source material within a portion of AOC-1 at the Pass and Seymour Brownfield site C734102 located at 50 Boyd Ave, Solvay, New York.

As you are aware, groundwater impacted with Trichloroethene (TCE) and related compounds was treated in 2009 and again in 2012 with Potassium and Sodium Permanganate in two portions of the site designated as AOC-1 both overburden and bedrock plus AOC-2. Much of the groundwater impact with solvent contamination has responded well to the chemical oxidation process with many of the impacted wells showing declines of 90%. However, a core area of bedrock wells in AOC-1 has shown persistent high concentrations of TCE and Dichloroethene (DCE), particularly in four wells: OW1-1, OW1-2, OW1-3 and BR09-37. These wells, shown on the attached figure, are clustered in an area between the former manufacturing building and the existing office building. The zone that includes these wells and the impacted groundwater is approximately fifty feet across (east-west) and one hundred feet long (north-south).

#### Passive Soil Gas Sampling Results

The results of soil gas sampling were reported to DEC/DOH in a report dated December 2, 2016. Sample results indicated elevated soil vapor in three locations on site, specifically soil vapor locations 4, 5 and 11. The soil borings program was focused on those three locations to determine whether impacted soil/weathered bedrock could be identified.

#### Soil Boring Approach and Results of Sampling

The approach to locating soil borings was described in the approved workplan with a boring to be installed exactly at the location of soil vapor sample locations 4, 5 and 11, and then radiating out from each of the three locations. The total depth of each boring was dictated by complete auger refusal. Each boring was terminated at a depth that was well into weathered shale bedrock and at which complete auger refusal was experienced. A slight deviation from the workplan procedure was to select samples for analysis based on Photoionization Detector (PID) readings of 10 PPM instead of 50

PPM. In some cases, more than one soil sample was taken from each boring because of distinct zones of impact observed at more than one interval of soil/weathered rock. Figure 1 shows the locations of the completed soil borings. It was not possible to complete a boring just east of soil boring 12 due to the proximity of the fence. An additional boring was added, delineated as soil boring 11. This location was chosen due to nearby impact and the presence of a scupper drain in the building foundation (see the attached photograph). Boring 11 was located just uphill of OW1-2 and 5 feet due east of the scupper drain.

A total of 15 borings were completed to depths varying between 10.3 feet below ground surface (bgs) and 15.5 feet bgs. Generally speaking, the depth to auger refusal increased by about 4-5 feet between the northern borings (soil borings 12, 13, 14 and 15) as compared with the southern borings (soil borings 1-10). This would seem to indicate that the top of the unweathered shale is flat or perhaps dipping slightly to the south. All boring logs are attached.

No soil samples were taken from borings 1-10 because there were no PID readings that exceeded 10 ppm. The highest reading in any of these borings was 7 ppm in SB-4. For boring 11, PID readings of 12 and 12.3 ppm were measured at 12 and 14 feet During completion of soil boring 12, PID readings of 19 and 10.3 ppm were measured at 3 feet and 8 feet respectively. Soil boring 13 had a PID reading of 26 ppm at 3 feet and soil boring 14 had PID readings of 20 and 10.3 ppm at 3 and 8 feet respectively.

Table 1 shows the results of soil testing completed in accordance with methods described in the workplan from borings completed at location 11 plus the cluster of borings including 12, 13 and 15. The primary contaminant of concern at this site has always been Trichloroethene (TCE) and that is the compound found in highest concentrations in soil samples from these borings. Side by side borings 13 and 15 have TCE concentrations of 94 and 320 ppm at three feet below grade, an interval that corresponds to the fill/weathered shale interface. Adjacent boring 15 has a TCE concentration of 4 ppm at 8 feet bgs. In boring 11 a TCE concentration of 33 ppm was measured in a sample from 14 feet bgs.

#### Conclusions

The soil vapor survey was a first step to identifying potential sources of TCE impact AOC-1 overburden, and soil borings were installed based on the results of soil vapor testing. The result of soil boring and testing is the identification of two locations in overburden containing elevated concentrations of TCE that could be ongoing sources of groundwater impact.

#### Further Action

Once the DEC and DOH have reviewed and approved this report, Pass and Seymour will submit a workplan describing a remedial action to address the impact observed. The workplan will be submitted within 45 days of the DEC/DOH approval of this report.

Very Truly Yours,

David W. Stoner, PG President

#### **Figure Legend**

Existing AOC-1 Monitoring Wells



OW1-3

BR09-37

5

-0

6 9

OW1-1

Soil Boring Locations



Pass and Seymour Boyd Ave Site NYSDEC Brownfield Site Number C734102 Figure 1 Soil Boring Locations (#1-15) Job Number 1225 October 2017

Boyd Ave

#### TABLE 1

#### SOIL SAMPLE RESULTS

Analyte (mg/kg)	SB 11-12	SB 11-14.2	SB 12-8	SB 13-3	SB 15-3	SB 15-8
1,1,1 trichloroethane	ND	.0023J	ND	ND	ND	ND
1,1 dichloroethene	ND	0.00073J	ND	ND	ND	ND
1,2 dichlorobenzene	0.0016J	0.0019J	ND	ND	ND	ND
1,3 dichlorobenzene	0.00031J	ND	ND	ND	ND	ND
1,2,4 trichlorobenzene	0.00055J	ND	ND	ND	ND	ND
Acetone	0.0061J	0.0087J	0.026	ND	0.0078J	14J
Benzene	ND	0.00033J	0.00026J	ND	ND	ND
Chloroform	ND	ND	ND	0.00039J	0.00056JB	ND
cis-1,2 dichloroethene	0.0074	0.150	ND	0.011	0.0011J	ND
Ethylbenzene	ND	0.0022J	ND	ND	ND	ND
Ethylbenzene Methylcyclohexane	ND 0.0017J	0.0022J 0.0016J	ND ND	ND ND	ND ND	ND ND
Ethylbenzene Methylcyclohexane Tetrachloroethene	ND 0.0017J 0.092	0.0022J 0.0016J 3.9	ND ND 0.0023J	ND ND 0.0013J	ND ND 0.0048	ND ND 0.0014J
Ethylbenzene Methylcyclohexane Tetrachloroethene Toluene	ND 0.0017J 0.092 ND	0.0022J 0.0016J 3.9 0.001J	ND ND 0.0023J ND	ND ND 0.0013J ND	ND ND 0.0048 ND	ND ND 0.0014J ND
Ethylbenzene Methylcyclohexane Tetrachloroethene Toluene Trichloroethene	ND 0.0017J 0.092 ND 0.026	0.0022J 0.0016J 3.9 0.001J 33	ND ND 0.0023J ND 0.170	ND ND 0.0013J ND 94	ND ND 0.0048 ND 320	ND ND 0.0014J ND 4

## ATTACHMENTS

# **BORING LOGS**

Project: Pass and Seymour Soil Borings

Project Location: Boyd Ave Solvay NY

#### Log of Boring <u>SB-1</u> Sheet 1 of 1

Date(s) Drilled Aug 28,2017	Logged By DWS	Checked By		
Drilling	Drill Bit	Total Depth		
Method HSA	Size/Type	of Borehole 15 ft		
Drill Rig	Drilling	Approximate 421		
Type HSA	Contractor Parratt-Wolff	Surface Elevation		
Groundwater Level	Sampling	<sup>Hammer</sup> standard		
and Date Measured NA	Method(s) EPA 5035A	<sub>Data</sub>		
Borehole Backfill	Location AOC-1			

Fill material 0-5.7 ft Fill material 0-5.7 ft Fill material 0-5.7 ft Fill material 0-5.7 ft PID readings 0 PPM all split spoons Veathered shale 11.7-15 ft. Complete auger refusal at 15 ft 50 blows per 0.4 ft Land Land Land Land Land Land Land Land		Elevation (feet)	, Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
	[dlog.tp]								Fill material 0-5.7 ft Silty clay 6-11.7 ft bgs Weathered shale 11.7-15 ft. Complete auger refusal at 15 ft 50 blows per 0.4 ft	PID readings 0 PPM all split spoons

Project: Pass and Seymour Soil Borings

Project Location: Boyd Ave Solvay NY

#### Log of Boring <u>SB-2</u> Sheet 1 of 1

Date(s) Drilled	ug 28,2	201	7				Logged By	DWS	Checked By	
Drilling Method	ISA						Drill Bit Size/Type		Total Depth of Borehole	15 ft
Drill Rig Type	ISA						Drilling Contractor	Parratt-Wolff	Approximate Surface Elevat	ion 421
Groundwa and Date	iter Level Measured	N	A				Sampling Method(s)	EPA 5035A	Hammer Data	dard
Borehole Backfill	cuttings	;					Location AC	DC-1		
				a l			 T			
Elevation (feet)	, Depth (feet)	Sample Type	Sample Number	Sampling Resistance blows/ft	USCS Symbol	Graphic Log		MATERIAL DESCRIPTION		REMARKS AND OTHER TESTS
-							F Fill m	naterial 0-6 ft bgs ft	-	
-							F	-	-	
-									-	PID readings 0 PPM all split spoons
-	-						Silty	clay 6-10 ft bgs	-	
-	-						- - Wea <sup>r</sup>	thered shale 10-15 ft.	-	
-	10						Com 0.4 ft	plete auger refusal at 15 ft 50 blo t	ws per	
							-		-	
-	15						Ł		-	
-	-						ŀ		-	
-	-						F		-	
							[		-	
-	20 —						F		_	
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fieldlog	30-									

Project: Pass and Seymour Soil Borings

Project Location: Boyd Ave Solvay NY

#### Log of Boring <u>SB-3</u> Sheet 1 of 1

Date(s) Drilled Aug 28,2	2017				Logged By DWS	Checked By	
Drilling Method HSA					Drill Bit Size/Type	Total Depth	14.1
Drill Rig Tuno					Drilling Contractor Parratt-Wolff	Approximate	421
Groundwater Level	NA				Sampling EPA 5035A	Hammer stan	dard
Borehole cuttings					Method(s)	Data	
Backfill			1				
Elevation (feet)	Sample Type	Sampling Resistance, blows/ft	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION		REMARKS AND OTHER TESTS
					Very hard silty clay 4-10 ft bgs Weathered shale 10-14.1 ft. Complete auger refusal at 14.1 ft 50 bl 0.4 ft		PID readings 0 PPM all split spoons
Iteldic							

Project: Pass and Seymour Soil Borings

Project Location: Boyd Ave Solvay NY

#### Project Number: 1225

#### Log of Boring <u>SB-4</u> Sheet 1 of 1

Date(s) Drilled	August 2	28,2	2017				Logged By DWS	Checked By	
Drilling Method	ISA						Drill Bit Size/Type	Total Depth of Borehole	14.5
Drill Rig Type	ISA						Drilling Contractor Parratt-Wolff	Approximate Surface Elevati	on 421
Groundwater Level and Date Measured							Sampling Method(s) EPA 5035A	Hammer Data	dard
Borehole Backfill	cuttings	6					Location AOC-1		
Elevation (feet)	(teet) (teet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION 0-2 ft bgs- fill material 2-4 silty clay-very hard 4-8 ft- hard weathered silty clay 8-12 weathered shale moist 12-14.5- moist weathered shale Auger refusal at 14.5 ft bgs		REMARKS AND OTHER TESTS PID readings: 7ppm at 1.5 ft 4ppm at 4.4 ft 0.7ppm at 8.5 ft

[fieldlog.tpl]

Project: Pass and Seymour Soil Borings

Project Location: Boyd Ave Solvay NY

#### Log of Boring <u>SB-5</u> Sheet 1 of 1

Date(s) Drilled August 2	8,2017				Logged By DWS	Checked By	
Drilling Method HSA					Drill Bit Size/Type	Total Depth of Borehole	10
Drill Rig Type HSA					Drilling Contractor Parratt-Wolff	Approximate Surface Elevati	on 421
Groundwater Level					Sampling Method(s) EPA 5035A	Hammer Data	dard
Borehole Backfill cuttings					Location AOC-1		
		, i					
Elevation (feet)	Sample Type Sample Number	Sampling Resistance, blows/ft	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION		REMARKS AND OTHER TESTS
Габорр Габор					0-3 ft fill 2-4 silty clay 4-6 clay 6-10 silty clay, moist but increasing in de 10-12 silty clay 12-14.5 very dense weathered shale 14.5 auger refusal	- ensity - - - - - - - - - - - - - - - - - - -	PID readings all 0.0 with the exception of a reading of 0.3ppm at 3 ft and 0.3ppm at 14- 14.1 ft

Project: Pass and Seymour Soil Borings

Project Location: Boyd Ave Solvay NY

#### Log of Boring <u>SB-6</u> Sheet 1 of 1

Project Number: 1225

Date(s) Drilled August 29,2017	Logged By DWS	Checked By			
Drilling	Drill Bit	Total Depth			
Method HSA	Size/Type	of Borehole 13 ft			
Drill Rig	Drilling	Approximate			
Type	Contractor Parratt-Wolff	Surface Elevation 421			
Groundwater Level	Sampling	<sup>Hammer</sup> standard			
and Date Measured	Method(s) EPA 5035A	<sub>Data</sub>			
Borehole Backfill cuttings	Location AOC-1				

vation (feet)	oth (feet)	nple Type	nple Number	npling Resistance, ws/ft	CS Symbol	tphic Log		
Ele	Der	Sar	Sar	Sar blov	NSN	Gra	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
							0-4 ft fill 4-6 ft bgs wet fill 6-13 ft bgs dry to moist weathered shale, increasingly dense with depth 13 ft bgs complete auger refusal	PID readings all 0 ppm

[fieldlog.tpl]

Project: Pass and Seymour Soil Borings

Project Location: Boyd Ave Solvay NY

#### Log of Boring <u>SB-7</u> Sheet 1 of 1

Date(s) Drilled	August 2	<u>29,</u>	2017				Logged By	DWS	Checked By	
Drilling Method	ISA						Drill Bit Size/Type		Total Depth of Borehole	13 ft
Drill Rig	ISA						Drilling	Parratt-Wolff	Approximate Surface Elevat	ion 421
Groundwa	ater Level Measurer	1					Sampling Method(s)	EPA 5035A	Hammer Data	dard
Borehole	cuttings	 }					Location A	OC-1	Dulu	
Elevation (feet)	o Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	USCS Symbol	Graphic Log		MATERIAL DESCRIPTION		REMARKS AND OTHER TESTS
							- 0-5 ft 	mixed fill weathered shale with wet zones a 1 ft 3 ft dense weathered shale r refusal at 13 ft bgs	- - - - - - - - - - - - - - - - - - -	All PID readings for split spoon samples were 0.0 ppm
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field										

Project: Pass and Seymour Soil Borings

Project Location: Boyd Ave Solvay NY

#### Project Number: 1225

# Log of Boring <u>SB-8</u>

Sheet 1 of 1

Drilled Au	igust 29	, 2017				Logged By DWS	Checked By	
Drilling Method HS	SA					Drill Bit Size/Type	Total Depth	14.4 ft
Drill Rig Type	SA					Drilling Contractor Parratt-Wolff	Approximate Surface Elevat	ion 421
Groundwate	Groundwater Level					Sampling Method(s) EPA 5035A	Hammer stan	dard
Borehole Bockfill Cl	uttings					Location AOC-1	Data	
		1						
Elevation (feet)	o Depth (feet)	sample Type Sample Number	Sampling Resistance, blows/ft	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION		REMARKS AND OTHER TESTS
eldog.tp]						0-4.5 ft fill 4.5 -8 ft dense weathered shale 9-9.5 saturated layer of weathered shale Auger refusal 14.4 ft bgs		All PID readings were 0.0 ppm

Project: Pass and Seymour Soil Borings

Project Location: Boyd Ave Solvay NY

#### Log of Boring <u>SB-9</u> Sheet 1 of 1

Project Number: 1225

[fieldlog.tpl]

Date(s) Drilled August 29, 2017	Logged By DWS	Checked By			
Drilling	Drill Bit	Total Depth			
Method HSA	Size/Type	of Borehole 13.5 ft			
Drill Rig	Drilling	Approximate			
Type	Contractor Parratt-Wolff	Surface Elevation 421			
Groundwater Level	Sampling	<sup>Hammer</sup> standard			
and Date Measured	Method(s) EPA 5035A	<sup>Data</sup>			
Borehole Backfill cuttings	Location AOC-1				

Project: Pass and Seymour Soil Borings

Project Location: Boyd Ave Solvay NY

#### Log of Boring <u>SB-10</u> Sheet 1 of 1

Date(s) Drilled August 29, 2017	Logged By DWS	Checked By
Drilling	Drill Bit	Total Depth
Method HSA	Size/Type	of Borehole 13.5 ft
Drill Rig	Drilling	Approximate
Type	Contractor Parratt-Wolff	Surface Elevation 421
Groundwater Level	Sampling	Hammer
and Date Measured	Method(s) EPA 5035A	Data standard
Borehole Backfill	Location AOC-1	
Eleckfill Certified (feet)	MATERIAL DESCRIPTION O-4.5 ft fill A.5-12 ft-alternating intervals of dry and m silty clay I2-13.5 ft dense weathered shale I2-13.5	noiSt REMARKS AND OTHER TESTS

Project: Pass and Seymour Soil Borings

Project Location: Boyd Ave Solvay NY

#### Log of Boring <u>SB-11</u> Sheet 1 of 1

Date(s) Drilled August 30. 2017							Logged By DWS		Checked By	
Drilling Method	ISA						Drill Bit Size/Type		Total Depth of Borehole	15.5 ft
Drill Rig	ISA						Drilling Contractor Parratt-Wolff		Approximate Surface Elevat	on 421
Groundwa and Date	ater Level Measured	1					Sampling Method(s) EPA 5035A		Hammer Data	dard
Borehole Backfill	Borehole Backfill cuttings						Location AOC-1			
Groundwa and Date Borehole Backfill	Ater Level Measured cuttings (1) and (1) and	Sample Type	Sample Number SB1112 B-1-15 SB1-12	Sampling Resistance, blows/ft	USCS Symbol	Graphic Log	Sampling EPA 5035A Location AOC-1 MATERIAL DESCR 0-6 ft fill 6-11 moist silty clay 11-15.5 ft moist but dense v Auger refusal at 15.5 ft bgs	RIPTION	Hammer stan	REMARKS AND OTHER TESTS PID readings of 0.1 ppm at 3 ft,1.4 ppm at 7 ft and 12 and 12,3 ppm at 12 and 14 ft bgs Odor of organic material at 12 ft
	-								-	
	-								-	
log.tpl]	30—									
field										

Project: Pass and Seymour Soil Borings

Project Location: Boyd Ave Solvay NY

#### Log of Boring <u>SB-12</u> Sheet 1 of 1

	Date(s) Drilled August 30, 2017							Logged By DWS	Checked By	
	Drilling Method HSA							Drill Bit Size/Type	Total Depth of Borehole	10.5
	Drill Rig Type							Drilling Contractor Parratt-Wolff	Approximate Surface Elevati	on 417
	Groundwater Level							Sampling Method(s) EPA 5035A	<sup>Hammer</sup> stan	dard
	Borehole Backfill	cuttings	;					Location AOC-1		
logipj		(teet) (teet) - - - - - - - - - - - - -	Sample Type	8 - 2 L - B S Sample Number	Sampling Resistance, blows/ft	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION O-7.9 ft fill Auger refusal at 10.5 ft Auger refusal at 10.5 ft		REMARKS AND OTHER TESTS PID readings above zero at the following intervals and following concentrations: 19 ppm at 3 ft, 3 ppm at 5 ft, 10.3 ppm at 8 ft and 7 ppm at 10 ft
field										

Project: Pass and Seymour Soil Borings

Project Location: Boyd Ave Solvay NY

#### Log of Boring <u>SB-13</u> Sheet 1 of 1

Drilling HSA Strategy of the second strate with the second strate	Date(s) Drilled August 30, 2017							Logged By DWS	Checked By	
Diffing Type     Defining Constrator     Defining Constrator     Defining Constrator     Approximate StrateGardine Data     417       Groundwater Level and Date Messared     Sampling Methods)     EPA 5035A     Hammer Data     Hammer Data     Hammer Standard       Botholog utings     Location AOC-1     Location AOC-1     Hammer Standard     Hammer Data     Hammer Standard       Image: Standard     Image: Standard     Image: Standard     Image: Standard     Image: Standard       Image: Standard     Image: Standard     Image: Standard     Image: Standard     Image: Standard       Image: Standard     Image: Standard     Image: Standard     Image: Standard     Image: Standard       Image: Standard     Image: Standard     Image: Standard     Image: Standard     Image: Standard       Image: Standard     Image: Standard     Image: Standard     Image: Standard     Image: Standard       Image: Standard     Image: Standard     Image: Standard     Image: Standard     Image: Standard       Image: Standard     Image: Standard     Image: Standard     Image: Standard     Image: Standard       Image: Standard     Image: Standard     Image: Standard     Image: Standard     Image: Standard       Image: Standard     Image: Standard     Image: Standard     Image: Standard     Image: Standard       Image: S	Drilling Method H	SA						Drill Bit Size/Type	Total Depth of Borehole	10.3 ft
Open-construct Level and Data Messare/do     Harmoner (and Data Messare/do     Harmoner (and Data Messare/do       Bothelic cuttings     Location AOC-1	Drill Rig Type H	SA						Drilling Contractor Parratt-Wolff	Approximate Surface Elevat	ion 417
Boteline         cutings         Location AOC-1           Image: Section 2000 and 100 and 1	Groundwar and Date M	Groundwater Level and Date Measured						Sampling Method(s) EPA 5035A	<sup>Hammer</sup> stan	dard
Image: state	Borehole Backfill	cuttings						Location AOC-1		
		cuttings (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Sample Type	с с с т ч а с Sample Number	Sampling Resistance, blows/ft	USCS Symbol	Graphic Log	Location AOC-1 MATERIAL DESCRIPTION 0-3 ft fill 3-8 ft silty clay 8-10.3 dense weathered shale Auger refusal at 10.3 ft bgs		REMARKS AND OTHER TESTS PID readings above 0.0 ppm of 0.2 ppm at 1 ft, 26 ppm at 3 ft, 8.9 ppm at 7 ft 3 ppm at 8.4 ft and 0.1 ppm at 10.4 ft
	[dlog.tp]	30 —								

Project: Pass and Seymour Soil Borings

Project Location: Boyd Ave Solvay NY

#### Log of Boring <u>SB-14</u> Sheet 1 of 1

Drilled August 30, 2017	Logged By DWS	Checked By	
Drilling Method HSA	Drill Bit Size/Type	Total Depth of Borehole 10.3	
Drill Rig Type HSA	Drilling Contractor Parratt-Wolff	Approximate Surface Elevation 417	
Groundwater Level and Date Measured	Sampling Method(s) EPA 5035A	<sup>Hammer</sup> standard	
Borehole Backfill cuttings	Location AOC-1		
Elevation (feet) <ul> <li>Depth (feet)</li> <li>Sample Type</li> <li>Sample Number</li> <li>Sampling Resistance</li> <li>blows/ft</li> <li>USCS Symbol</li> <li>Graphic Log</li> </ul>	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS	
	0-4 ft fill	PID readings above 0.0 of 5 ppm at 3 ft, 0.1 ppm at 7.4 ft and 4.6 ppm at 10.3 ft	
5-	<ul> <li>4-8ft moist weathered shale</li> </ul>	-	
	8-10.3 ft dense weathered shale		
	Auger refusal at 10.3 ft bgs		
	- -		
	- -		
	-		
		-	

Project: Pass and Seymour Soil Borings

Project Location: Boyd Ave Solvay NY

#### Log of Boring <u>SB-15</u> Sheet 1 of 1

Date(s) Drilled	Date(s) Drilled August 30, 2017						Logged By DWS	Checked By	
Drilling Method	Drilling Method HSA						Drill Bit Size/Type	Total Depth of Borehole	10.4 ft
Drill Rig Type	ISA						Drilling Contractor Parratt-Wolff	Approximate Surface Elevati	on 417
Groundwa and Date	Groundwater Level						Sampling Method(s) EPA 5035A	Hammer Data	dard
Borehole Backfill	Borehole Backfill						Location AOC-1		
Elevation (feet)	(leet) (leet)	Sample Type	8 G L H S Sample Number	Sampling Resistance, blows/ft	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION O-3 ft fill A-4 moist silty clay A-10.4 weathered shale- intermittently mo dry, of increasing density Auger refusal at 10.4 ft bgs		REMARKS AND OTHER TESTS PID readings above 0.0 ppm of 4.4 ppm at 2 ft, 20 ppm at 3-4 ft 7 ppm at 7.4 ft10.3 ppm at 8 ft 8.5 ppm at 10 ft Odor of naphthalene at 3 ft

# PHOTOGRAPH

