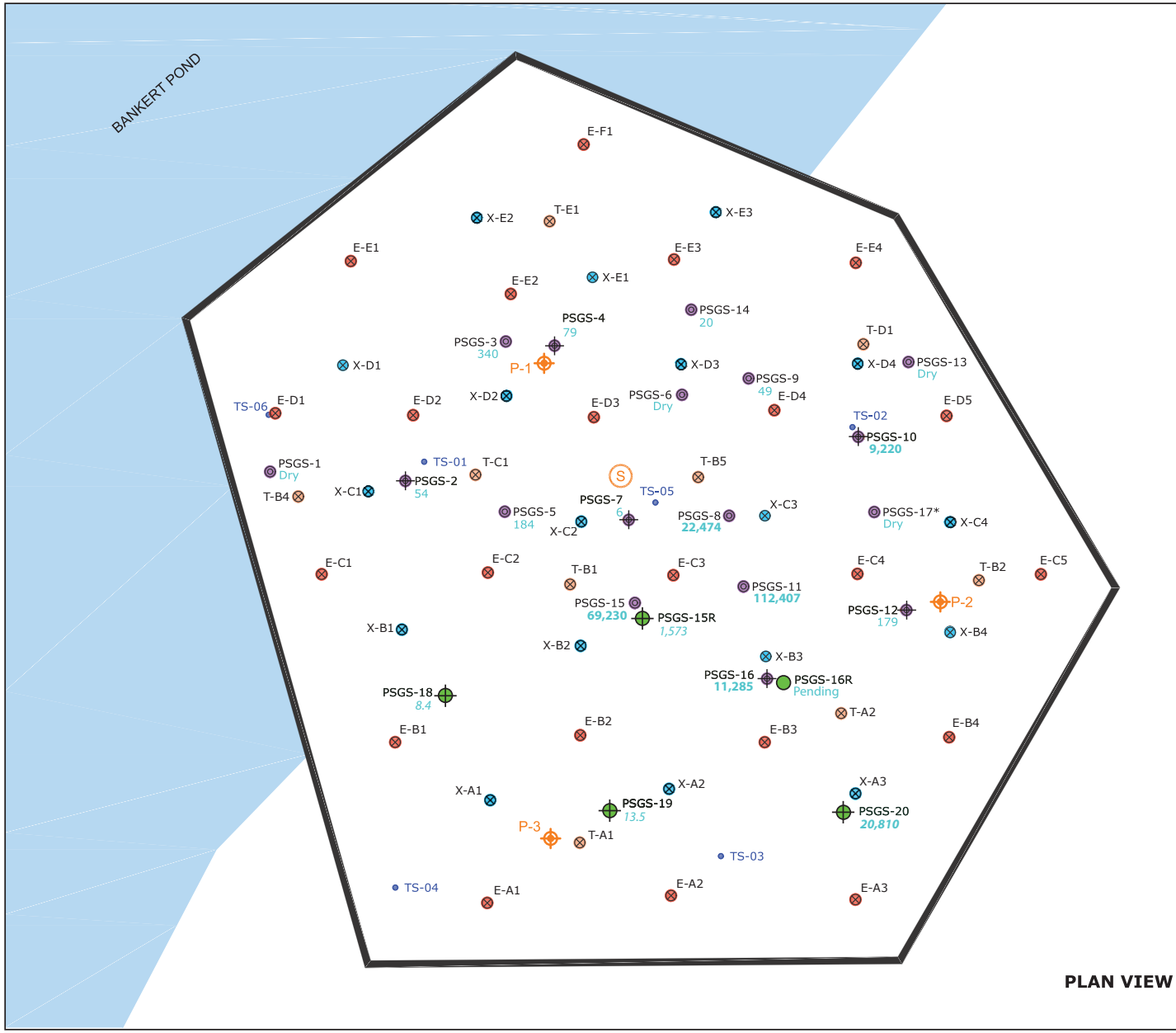


PLAN VIEW

N

LEGEND

- SHEET PILE WALL
- PIEZOMETER (COMPLIANCE MONITORING POINT)
- PHASE 2 SOIL/GROUNDWATER SAMPLE (PSGS) LOCATION
- EXISTING TEMPORARY WELL LOCATION
- 2014 SOIL BORING LOCATION
- SUMP (COMPLIANCE POINT)
- NEW DEEP SOIL/GROUNDWATER SAMPLE (PSGS) LOCATION
- NEW MONITORING WELL LOCATION
- EXTRACTION WELL LOCATION
- ELECTRODE WELL LOCATION
- TEMPERATURE PROBE LOCATION

PSGS-9 → Location Name
49 → Groundwater TVOC concentrations in µg/L

Notes:
1. TVOCs = Total Volatile Organic Compounds (excluding acetone)
2. Sample depths reported in feet below ground surface.
3. Samples analyzed using EPA Method 8260.
4. All results in microgram per liter (µg/L).
5. For EPA's convenience only, and not as a compliance matter, values in excess of the total VOC cleanup criteria (4,285 µg/L) which apply only at the four compliance monitoring locations, are **BOLD** at other locations.
6. Groundwater sample data collected in 2022 has not yet been validated and is shown in italics.

* Location requested by USEPA.

Source: "Proposed Additional Investigation Program DNAPL Containment Area", Figure 1, Ramboll, February 2022

0 10
SCALE IN FEET

Additional Investigation Program
DNAPL Containment Area
Third Site, 985 South U.S. Highway 421, Zionsville, Indiana

Geosyntec consultants

Guelph | February 2023

Figure 1

DRAFT Table 1
Phase 3 Soil Analytical Results (mg/kg)
DNAPL Containment Area
Third Site Superfund Site, Zionsville, Indiana

Location	Depth (feet bgs)	Sample Date	Acetone	2-Butanone (MEK)	1,2-DCB	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethyl-benzene	PCE	Toluene	TCE	VC	Xylene (Total)	Total VOCs
PSGS-15R	41.5	12/9/2022	0.42	<0.020	<0.0039	<0.0039	0.072	14.5	0.10	0.0052	0.018	0.028	15.3	4.5	0.013	34.96
	43	12/9/2022	0.45	<0.022	0.12	<0.0045	0.098	10.1	0.16	0.094	0.94	0.11	37.9	4.4	0.32	54.69
	43 (FD)	12/9/2022	<4.5	<1.1	1.4	<0.22	<0.22	11.9	<0.22	0.66	2.2	0.28	48.7	5.9	2.4	73.44
	44	12/9/2022	0.34	<0.022	<0.0043	<0.0043	0.012	1.0	0.012	<0.0043	<0.0043	<0.0043	0.013	0.62	<0.0086	2.00
	46	12/9/2022	0.093	<0.023	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0093	0.09
	49.5	12/9/2022	<0.090	<0.023	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0090	ND
	50.5	12/9/2022	<0.080	<0.020	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0080	ND
	52	12/9/2022	<0.085	<0.021	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0085	ND
	55	12/9/2022	<0.093	<0.023	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0093	ND
PSGS-18	41	12/6/2022	<0.084	<0.021	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0084	ND
	43	12/6/2022	<0.089	<0.022	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0089	ND
	45.5	12/6/2022	<0.084	<0.021	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0084	ND
	46	12/6/2022	<0.083	<0.021	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0083	ND
	49.5	12/6/2022	<0.084	<0.021	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0084	ND
	51	12/6/2022	<0.087	<0.022	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0087	ND
	53	12/6/2022	<0.085	<0.021	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0085	ND
	54.5	12/6/2022	<0.081	<0.020	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0081	ND
PSGS-19	41	12/6/2022	0.21	0.12	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0086	0.33
	41 (FD)	12/6/2022	0.22	0.0097	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0083	0.23
	43	12/6/2022	<0.091	0.036	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0091	0.04
	44.5	12/6/2022	<0.088	<0.022	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0088	ND
	46	12/6/2022	<0.11	<0.028	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	ND
	49.5	12/6/2022	<0.089	<0.022	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0089	ND
	51.5	12/6/2022	<0.084	<0.021	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0084	ND
	53	12/6/2022	<0.091	<0.023	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0091	ND
	55	12/6/2022	<0.098	<0.024	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098	ND
PSGS-20	40	12/7/2022	<0.085	<0.021	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0085	ND
	41.5	12/7/2022	0.11	0.048	<0.0045	<0.0045	<0.0045	0.027	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	0.046	<0.0090	0.23
	43	12/7/2022	<45.7	<11.4	<2.3	<2.3	<2.3	12.5	<2.3	<2.3	<2.3	<2.3	6.3	<2.3	<4.6	18.80
	44	12/7/2022	<4.3	<1.1	<0.21	<0.21	<0.21	4.2	0.51	<0.21	<0.21	<0.21	5.0	7.0	<0.43	16.71
	44 (FD)	12/7/2022	<46.1	<11.5	<2.3	<2.3	<2.3	32.1	<2.3	<2.3	<2.3	<2.3	34.7	9.0	<4.6	75.80
	46	12/7/2022	0.10	<0.021	<0.0042	<0.0042	0.0051	1.4	0.0074	<0.0042	<0.0042	<0.0042	0.010	1.3	<0.0083	2.82
	48	12/7/2022	<0.085	<0.021	<0.0043	<0.0043	<0.0043	0.20	0.0078	<0.0043	<0.0043	<0.0043	0.012	0.040	<0.0085	0.26
	51.5	12/7/2022	<4.1	<1.0	10.3	0.77	<0.20	10.9	<0.20	1.1	<0.20	<0.20	<0.20	2.9	3.8	29.77
	53.5	12/7/2022	<4.7	<1.2	<0.24	<0.24	<0.24	3.4	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.47	3.40
	54	12/7/2022	<4.3	<1.1	<0.21	0.31	<0.21	1.9	<0.21	<0.21	<0.21	<0.21	5.8	<0.21	<0.43	8.01
	55.5	12/7/2022	<5.1	<1.3	0.35	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	1.7	<0.25	<0.51	2.05
	56.5	12/7/2022	<0.089	<0.022	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	0.015	<0.0045	<0.0089	0.02
	58	12/7/2022	<0.086	<0.022	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0086	ND
	58 (FD)	12/7/2022	<0.093	<0.023	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0093	ND
	60	12/7/2022	<0.084	<0.021	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0084	ND

Notes:
1. Samples analyzed using EPA Method 8260.
2. All results in milligrams per kilogram (mg/kg).
3. Results are preliminary subject to data validation.

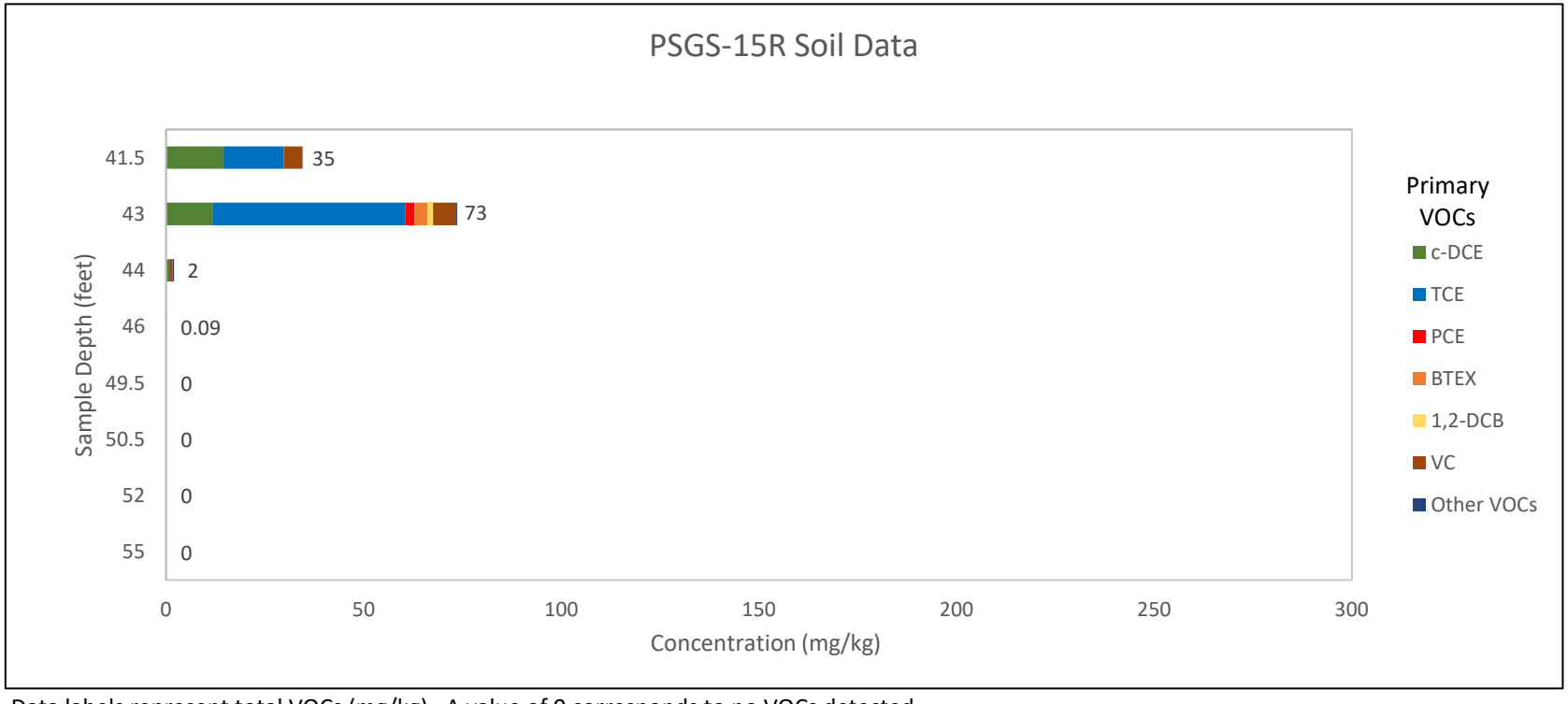
Abbreviations:
< = compound not detected at or above the laboratory reporting limit shown
bgs = below ground surface
FD = field duplicate
J = Estimated concentration
ND = no VOC was detected above its respective laboratory reporting limit
DCA = dichloroethane
DCB = dichlorobenzene
DCE = dichloroethene
PCE = tetrahloroethene
TCE = trichloroethene
VC = Vinyl Chloride

DRAFT Table 2
Phase 3 Groundwater Analytical Results (ug/L)
DNAPL Containment Area
Third Site Superfund Site, Zionsville, Indiana

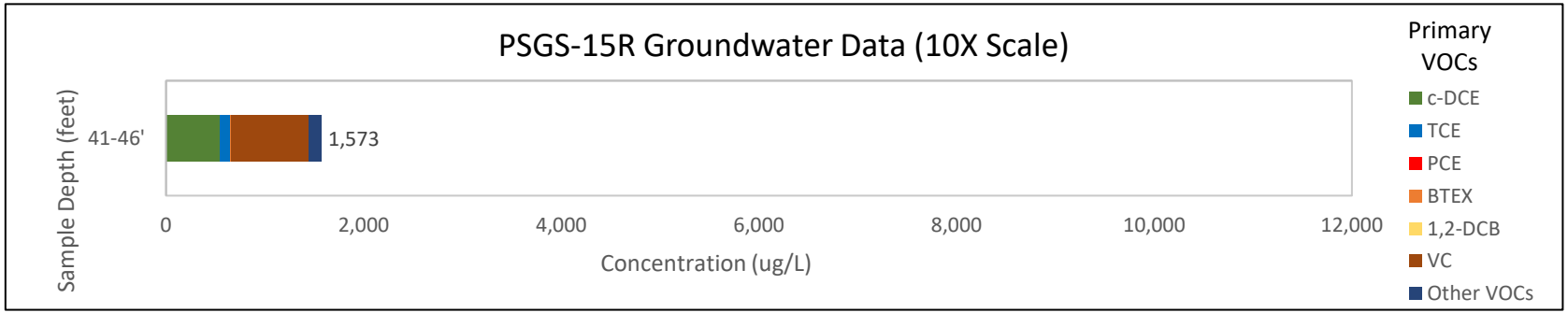
LOCATION	PSGS-15R[4]	PSGS-18[4]	PSGS-18 (FD)[4]	PSGS-19[4]	PSGS-20[4]
SAMPLE DEPTH[1]	41-46	41-46	41-46	41-46	41-46
COLLECTION DATE	12/15/2022	12/15/2022	12/15/2022	12/15/2022	12/15/2022
Acetone	662	<20	<20	38.3	130
2-Butanone (MEK)	110	<20	<20	<20	<100
Chloroform	3.8	<1.0	<1.0	<1.0	<5.0
1,2-Dichlorobenzene	6.5	<1.0	<1.0	6.2	584
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	681
1,1-Dichloroethene	2.9	<1.0	<1.0	<1.0	93.8
cis-1,2-Dichloroethene	543	6.2	5.0	1.6	6,330
trans-1,2-Dichlorothene	6.6	<1.0	<1.0	<1.0	71.8
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	133
Tetrachloroethene	<1.0	<1.0	<1.0	<1.0	591
Toluene	1.2	<1.0	<1.0	<1.0	47.2
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	1,350
Trichloroethene	111	2.2	1.3	<1.0	8,660
Vinyl Chloride	788	<1.0	<1.0	5.7	1,730
Xylene (Total)	<3.0	<3.0	<3.0	<3.0	538
Total VOCs (excluding acetone)	1,573	8.4	6.3	13.5	20,810
Total VOCs	2,235	8.4	6.3	51.8	20,940

NOTES:
1. Sample depth reported in feet below ground surface.
2. Samples analyzed using EPA Method 8260.
3. All results in microgram per liter (ug/L)
4. Samples collected using low flow methodology.
5. Results are preliminary subject to data validation.

Soil and Groundwater Data Plots
PSGS Borings



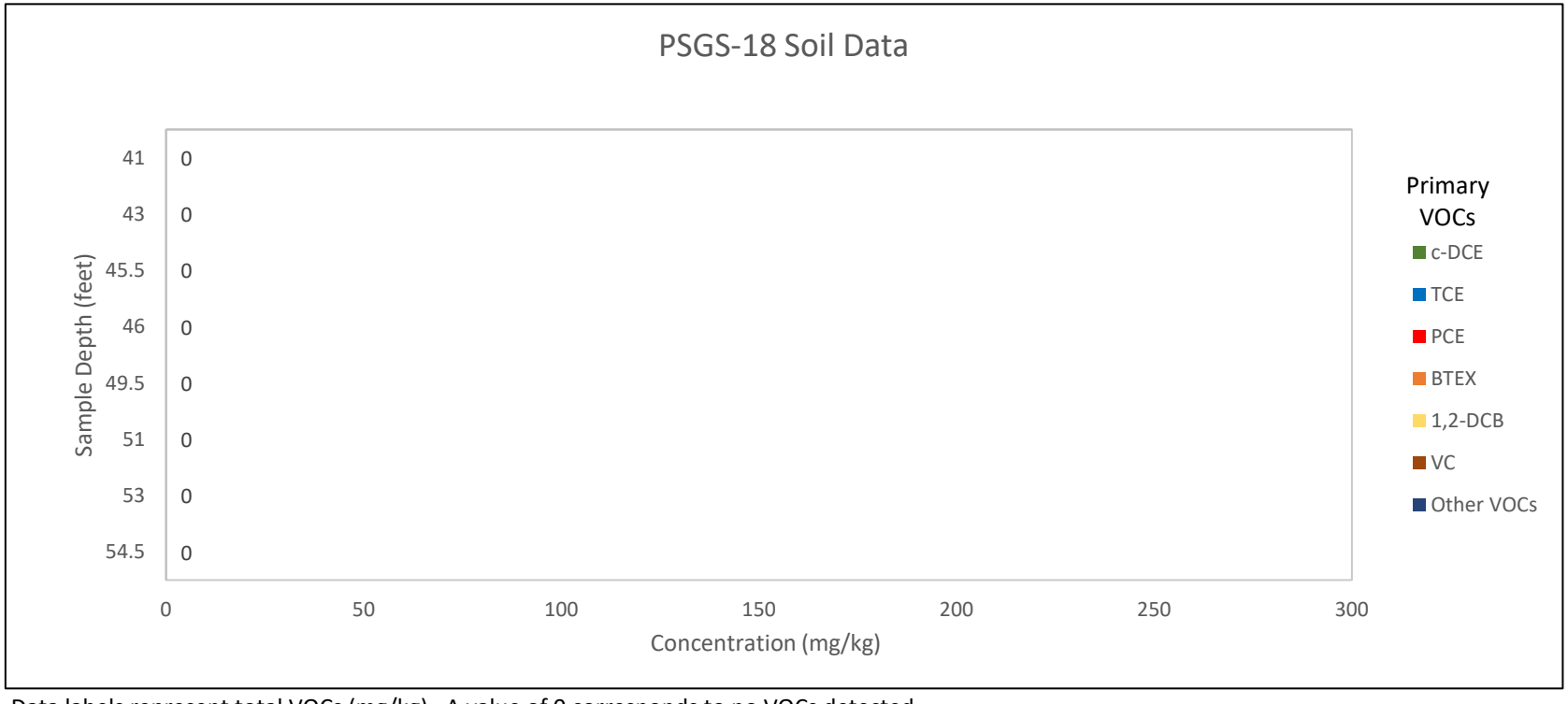
Data labels represent total VOCs (mg/kg). A value of 0 corresponds to no VOCs detected.



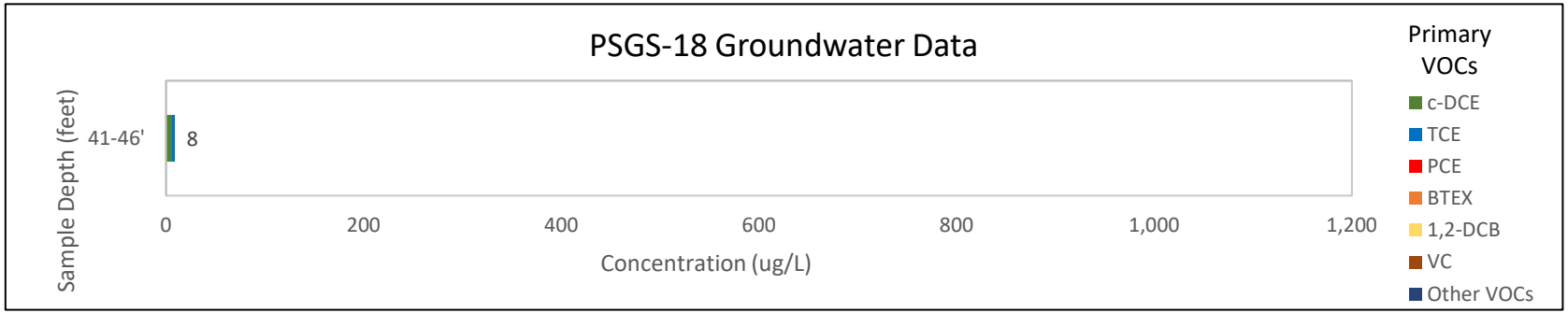
Data labels represent total VOCs (µg/L). A value of 0 corresponds to no VOCs detected.

Vinyl chloride is a degradation product. Acetone was excluded from the plots.

Soil and Groundwater Data Plots
PSGS Borings



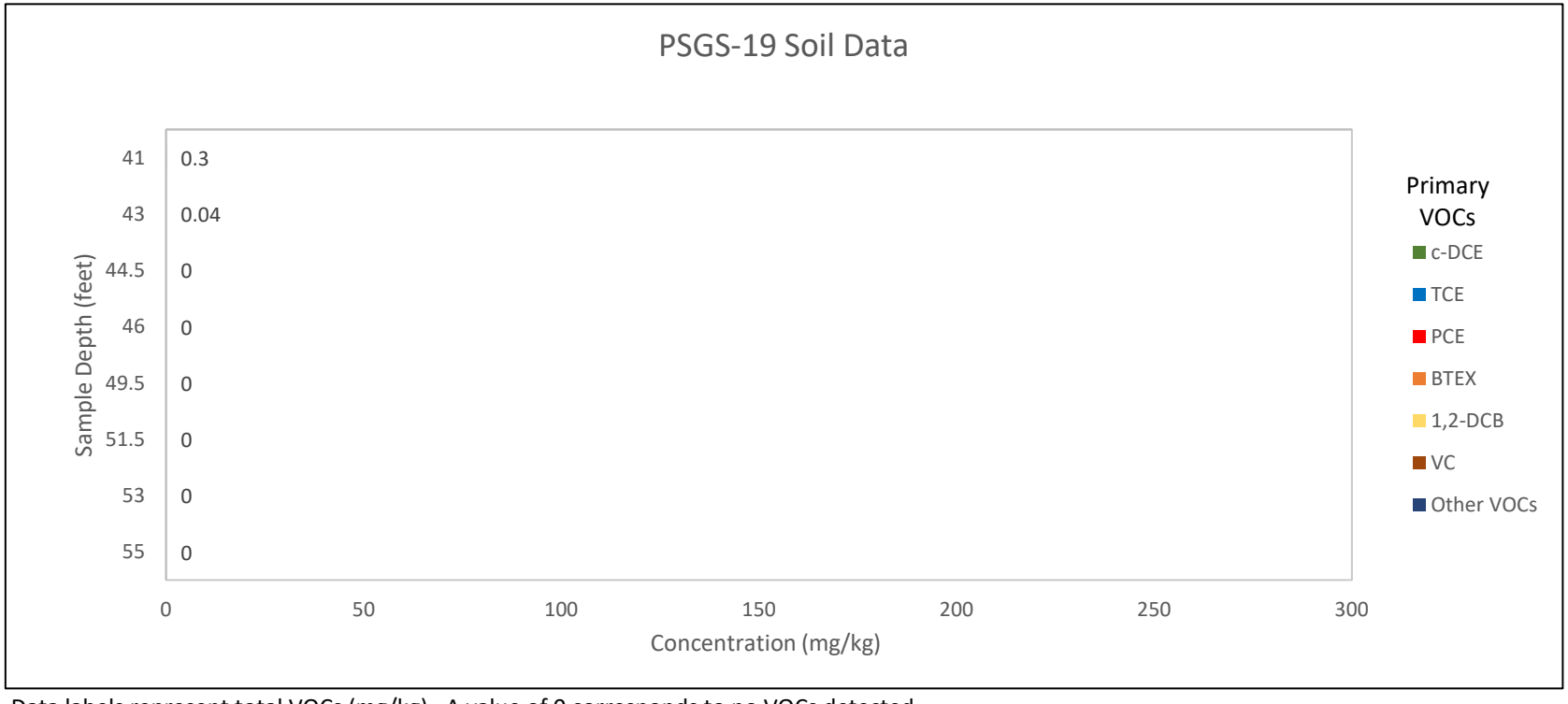
Data labels represent total VOCs (mg/kg). A value of 0 corresponds to no VOCs detected.



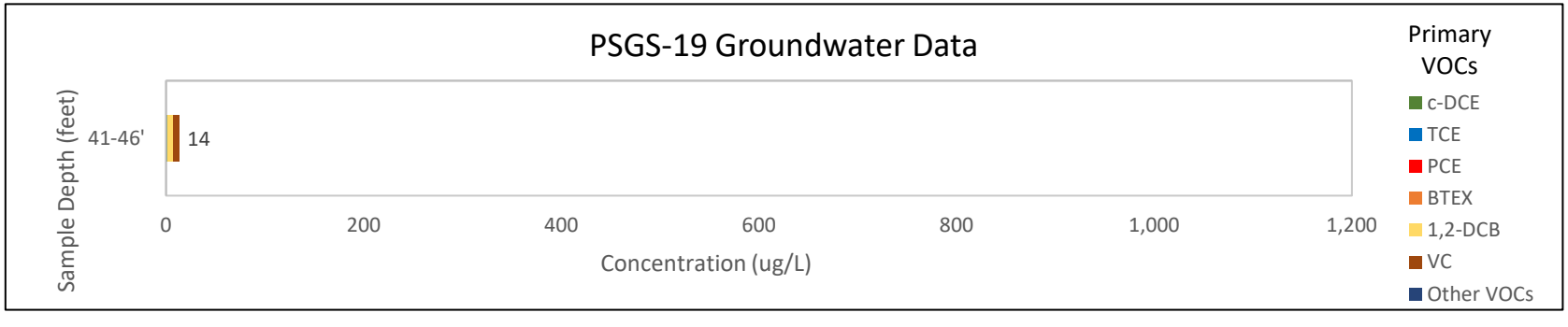
Data labels represent total VOCs (µg/L). A value of 0 corresponds to no VOCs detected.

Vinyl chloride is a degradation product. Acetone was excluded from the plots.

Soil and Groundwater Data Plots
PSGS Borings



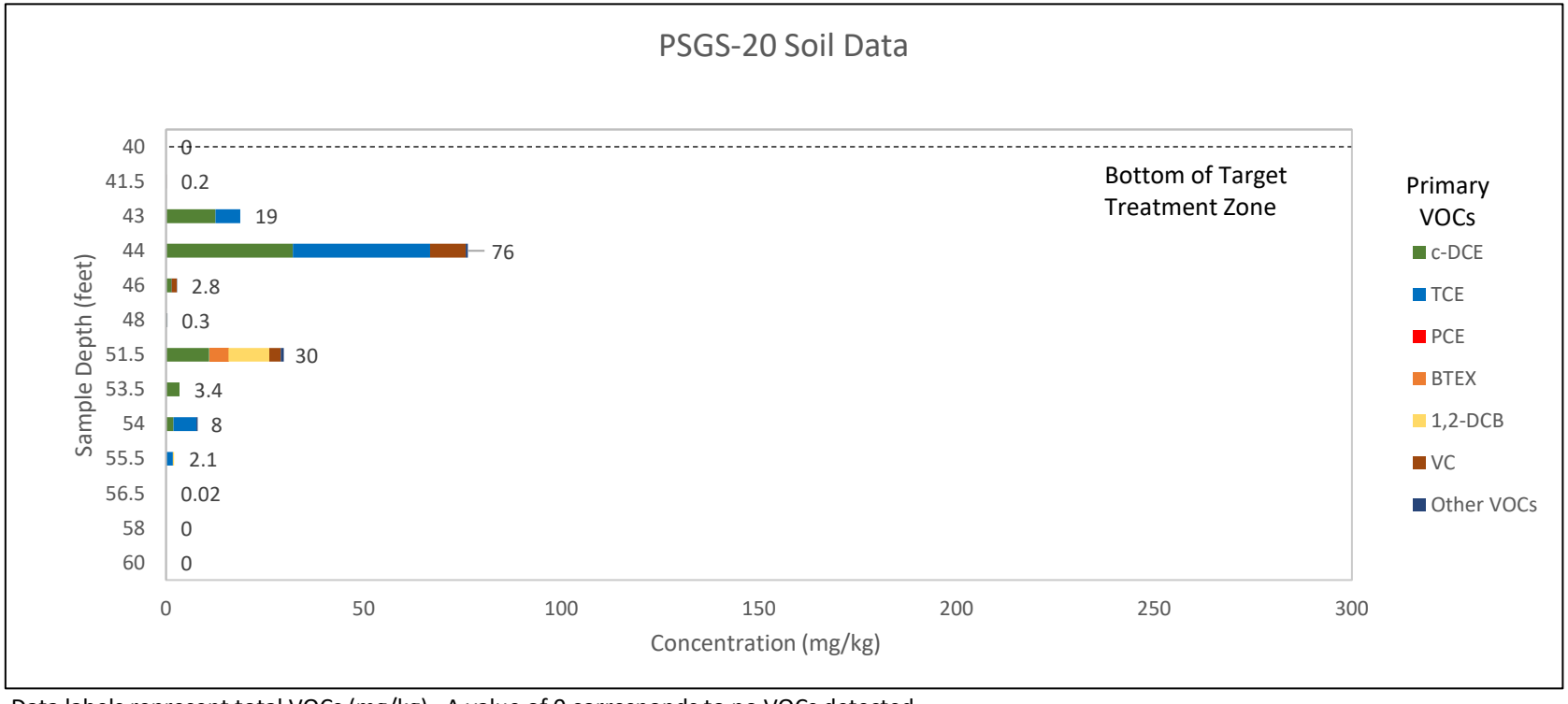
Data labels represent total VOCs (mg/kg). A value of 0 corresponds to no VOCs detected.



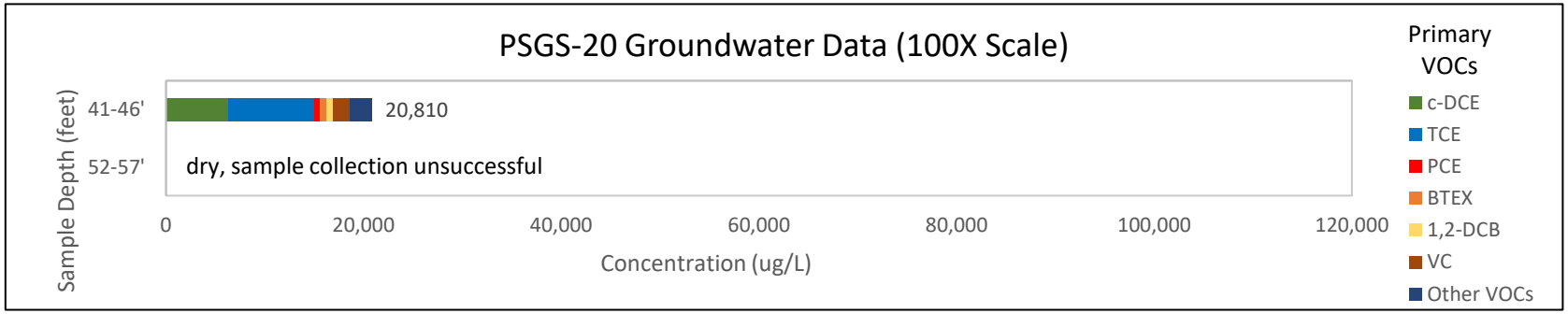
Data labels represent total VOCs (µg/L). A value of 0 corresponds to no VOCs detected.

Vinyl chloride is a degradation product. Acetone was excluded from the plots.

Soil and Groundwater Data Plots
PSGS Borings



Data labels represent total VOCs (mg/kg). A value of 0 corresponds to no VOCs detected.



Data labels represent total VOCs (µg/L). A value of 0 corresponds to no VOCs detected.

Vinyl chloride is a degradation product. Acetone was excluded from the plots.

Ramboll
One Indiana Square
Suite 2335
Indianapolis, IN 46204

WELL ID: **PSGS-15R**
BORING NUMBER: **PSGS-15R**

CLIENT Third Site Trustees
PROJECT NAME Third Site
PROJECT NUMBER 1690020249
PROJECT LOCATION Zionsville, IN
DATE STARTED 12/9/22 **COMPLETED** 12/9/22
LOGGED BY Vitaliy Morozov **CHECKED BY** A. Dragos
DRILLING CONTRACTOR Stock Drilling
GROUND ELEVATION Not Measured **TOC ELEVATION** Not Measured
DRILLING EQUIPMENT Terrasonic TSi 150CC
NORTHING Not Measured **EASTING** Not Measured
DRILLER Ryan Brown
TOTAL BORING DEPTH 55 ft bgs **BOREHOLE SIZE** 4.5 in
DRILLING METHOD Rotosonic
TOTAL WELL DEPTH 46 ft bgs **SCREEN INTERVAL** 41-46 ft
SAMPLING METHOD Core Barrel
GROUNDWATER LEVEL 30.14' btoc on 12/15/22

DEPTH (ft bgs)	RECOVERY (ft)	PID (ppm)	LABORATORY ID	WATER LEVEL	GRAPHIC LOG	SAMPLE DESCRIPTION	WELL CONSTRUCTION
0							
1						**BLIND DRILLED to 40' due to proximity to PSGS-15**	Protective Cover
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							Bentonite Grout Seal

(Continued Next Page)

RAMBOLL WELL LOG- 1FT INTERVAL - GINT STD US LAB_UPDATED.GDT - 12/16/22 12:53 - \\MWINDFPS1\SHARED\ADMIN FORMS & TEMPLATES\GINT\PROJECTS\THIRD SITE\PSGS\THIRD SITE - PSGS - 18, 19, 20, AND 15R.GPJ

Ramboll
One Indiana Square
Suite 2335
Indianapolis, IN 46204

WELL ID: **PSGS-15R**
BORING NUMBER: **PSGS-15R**

CLIENT Third Site Trustees
PROJECT NAME Third Site
PROJECT NUMBER 1690020249
PROJECT LOCATION Zionsville, IN

DEPTH (ft bgs)	RECOVERY (ft)	PID (ppm)	LABORATORY ID	WATER LEVEL	GRAPHIC LOG	SAMPLE DESCRIPTION	WELL CONSTRUCTION
20						**BLIND DRILLED to 40' due to proximity to PSGS-15** *(continued)*	
21							
22							
23							
24							
25							
26							
27							
28							
29							
30				▼			
31							
32							
33							
34							
35							
36							
37							
38							
39							Bentonite Pellets Seal (Hydrated)
40						40.0	
41		10.8 10.3				(CL-ML) **SILTY CLAY** 2.5Y 4/1 dark gray, dry to moist, medium to high plasticity, firm to stiff, 15% f. sand, 5% f. gravel, w/ cobbles	
42		36.2 67.5	PSGS-15R (41.5')				
43		2.1 3.1 195.7	PSGS-15R (43.0')			Low plasticity Medium to high plasticity, stiff	Filter Sand Pack 2" diam. 0.010-inch

(Continued Next Page)

Ramboll
One Indiana Square
Suite 2335
Indianapolis, IN 46204

WELL ID:**PSGS-15R**
BORING NUMBER:**PSGS-15R**

CLIENT Third Site Trustees
PROJECT NAME Third Site
PROJECT NUMBER 1690020249
PROJECT LOCATION Zionsville, IN

DEPTH (ft bgs)	RECOVERY (ft)	PID (ppm)	LABORATORY ID	WATER LEVEL	GRAPHIC LOG	SAMPLE DESCRIPTION	WELL CONSTRUCTION
44	14.75	43.3	PSGS-15R (44.0')			Low to medium plasticity	slotted Screen 41'-46'
		11.4					
45		6.2					
		7.4					
46		9.3	PSGS-15R (46.0')				
		9.2					Filter Sand
47		2.2					
		1					
48		4.8					
		1.5					
49		1.3					
		0.3	PSGS-15R (49.5')				
50		2.6					
	10.5	0.1	PSGS-15R (50.5')			Medium to high plasticity, very stiff	
51		2.2					Hydrated Bentonite Pellets
		1.7					
52		0.4	PSGS-15R (52.0')				
		2.8					
53		2.2				Gley 1 5/10GY greenish gray, mottled 10YR 5/3 brown, 5% f. sand, no cobbles	
		0.4					
54		0.3				2.5Y 4/1 dark gray, medium plasticity	
		0.7					
55		0.7	PSGS-15R (55.0')			Gley 1 5/10GY greenish gray, mottled 10YR 5/3 brown	
		2.2			55.0	Bottom of borehole at 55.0 feet.	

RAMBOLL WELL LOG- 1FT INTERVAL - GINT STD US LAB_UPDATED.GDT - 12/16/22 12:53 - \\MWINDFPS1\SHARED\ADMIN FORMS & TEMPLATES\GINT\PROJECTS\THIRD SITE\PSGS\THIRD SITE - PSGS - 18, 19, 20, AND 15R.GPJ

Ramboll
One Indiana Square
Suite 2335
Indianapolis, IN 46204

WELL ID: **PSGS-18**
BORING NUMBER: **PSGS-18**

CLIENT Third Site Trustees
PROJECT NAME Third Site
PROJECT NUMBER 1690020249
PROJECT LOCATION Zionsville, IN
DATE STARTED 12/5/22 **COMPLETED** 12/6/22
LOGGED BY Vitaliy Morozov **CHECKED BY** A. Dragos
DRILLING CONTRACTOR Stock Drilling
GROUND ELEVATION Not Measured **TOC ELEVATION** Not Measured
DRILLING EQUIPMENT Terrasonic TSi 150CC
NORTHING Not Measured **EASTING** Not Measured
DRILLER Ryan Brown
TOTAL BORING DEPTH 55 ft bgs **BOREHOLE SIZE** 4.5 in
DRILLING METHOD Rotosonic
TOTAL WELL DEPTH 46 ft bgs **SCREEN INTERVAL** 41-46 ft
SAMPLING METHOD Core Barrel
GROUNDWATER LEVEL 4.65' btoc on 12/15/22

DEPTH (ft bgs)	RECOVERY (ft)	PID (ppm)	LABORATORY ID	WATER LEVEL	GRAPHIC LOG	SAMPLE DESCRIPTION	WELL CONSTRUCTION
0							
1						**POROUS CONCRETE** (1.0)	Protective Cover
2		3.6 3.3				(CL-ML) **SILTY CLAY** 10YR 4/3 brown, moist, medium plasticity, soft, 10% sand, 15% gravel (2.5)	
3		4.1 2.7				(SW) **SAND** 10YR 5/3 brown, well graded, fine to medium grained, moist, loose, trace gravel, trace clay (3.5)	
4		1.4 5.6				(CL-ML) **SILTY CLAY** 10YR 4/3 brown, dry to moist, low plasticity, firm, 10% sand, 15% gravel (4.5)	
5	11.75	9.4 40.6				(CL) **SANDY CLAY** 10YR 4/1 dark gray, moist, low plasticity, soft to firm, 20% gravel (6.0)	
6		42.5 59.6					
7		44.5 47.5				(CL-ML) **SILTY CLAY** 10YR 4/1 dark gray, dry to moist, medium to high plasticity, stiff, 5% sand, 5% gravel (7.0)	
8		24 13.8				(ML) **CLAYEY SILT** 10YR 6/1 gray, mottled 10YR 5/6 yellowish brown, moist, medium to high plasticity, stiff, 15% sand, 10% gravel (8.5)	
9		18.6 21.8				(SW-SC) **CLAYEY SAND** 10YR 3/1 very dark gray, well graded, fine to coarse grained, moist, loose, 15% gravel, 10% clay (10.0)	
10		6.6 2.3					
11		0.1				(GW) **SANDY GRAVEL** 10YR 5/1 gray, well graded, fine to medium grained, wet, loose, 5% clay (11.0)	
12		1.5				(CL-ML) **SILTY CLAY** 10YR 4/1 dark gray, dry to moist, low plasticity, stiff, 15% sand, 5% gravel	
13		0.6					
14		0.4					
15		0.5					
16	9.75	0.4					
17		1.3					
18		1.1					
19		0.4					
20		0.3				(20.0)	Bentonite Grout Seal

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RAMBOLL WELL LOG- 1FT INTERVAL - GINT STD US LAB_UPDATED.GDT - 12/16/22 12:53 - \\MWINDFPS1\SHARED\ADMIN FORMS & TEMPLATES\GINT\PROJECTS\THIRD SITE\PSGS\THIRD SITE - PSGS - 18, 19, 20, AND 15R.GPJ

Ramboll
One Indiana Square
Suite 2335
Indianapolis, IN 46204

WELL ID: **PSGS-18**
BORING NUMBER: **PSGS-18**

CLIENT Third Site Trustees
PROJECT NAME Third Site
PROJECT NUMBER 1690020249
PROJECT LOCATION Zionsville, IN

DEPTH (ft bgs)	RECOVERY (ft)	PID (ppm)	LABORATORY ID	WATER LEVEL	GRAPHIC LOG	SAMPLE DESCRIPTION	WELL CONSTRUCTION
20							
21	7.25	0				(CL) **SANDY CLAY** Gley 1 5/N gray, moist, low plasticity, soft, 10% gravel, w/ cobbles	
22		0.1					
23		0.3					
24		0.2				(CL-ML) **SILTY CLAY** Gley 1 4/10Y dark greenish gray, dry to moist, high plasticity, soft, 15% sand, 5% gravel	
25		0.2					
26		0.4				(SW) **SAND** 10YR 5/2 grayish brown, well graded, fine to coarse grained, moist, loose, trace clay, w/ cobbles	
27		0.6					
28		0.2					
29		0.6					
30		0.7					
31	12.5	0.9				(CL-ML) **SILTY CLAY** Gley 1 5/10GY greenish gray, mottled 10YR 5/8 yellowish brown, dry to moist, medium plasticity, firm to stiff, 10% sand, 15% gravel, w/ cobbles	
32		0.2					
33		0.5				Gley 1 4/10Y dark greenish gray	
34		1.4					
35		2.1				Gley 1 5/10Y greenish gray, dry, non-plastic, very stiff, 5% sand, 5% gravel	
36		2.1					
37		3.7					
38		3.6					
39		5.7					Bentonite Pellets Seal (Hydrated)
40		3.6					
41		0.1				10YR 4/1 dark gray to Gley 1 4/N dark gray, dry to moist, stiff to very stiff, 10-15% sand	
42		1.3	PSGS-18 (41.0')				
43		1.4					
		0.8					
		1					Filter Sand Pack
		2.2	PSGS-18 (43.0')				
		3.2					2" diam. 0.010-inch

23.0
25.0
30.0

(Continued Next Page)

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WELL ID: **PSGS-18**
BORING NUMBER: **PSGS-18**

CLIENT Third Site Trustees
PROJECT NAME Third Site
PROJECT NUMBER 1690020249
PROJECT LOCATION Zionsville, IN

DEPTH (ft bgs)	RECOVERY (ft)	PID (ppm)	LABORATORY ID	WATER LEVEL	GRAPHIC LOG	SAMPLE DESCRIPTION	WELL CONSTRUCTION
44	15.25	2.9				10YR 4/1 dark gray to Gley 1 4/N dark gray, dry to moist, stiff to very stiff, 10-15% sand *(continued)*	slotted Screen 41'-46'
		6.1					
45		1.4					
		3	PSGS-18 (45.5')				
46		9					
		5.9	PSGS-18 (46.0')				Filter Sand
47		5					
		3.3				Low plasticity	
48		1.2					
		0.9				Medium to high plasticity	
49		1.1					
		0.7	PSGS-18 (49.5')				
50		2.7					
	10.25	0.8				Gley 1 4/N dark gray, medium plasticity, 15% sand	
51		0.6	PSGS-18 (51.0')				Hydrated Bentonite Pellets
		2.3					
52		1.6					
		1.5					
53		1.2	PSGS-18 (53.0')				
		2.1					
54		0.6					
		1.1	PSGS-18 (54.5')			Gley 1 4/10GY dark greenish gray, mottled Gley 1 7/N light gray and 10YR 5/3 brown, dry, non-plastic to low plasticity, very stiff, 10% sand	
55		2.4					
		0.9			55.0	Bottom of borehole at 55.0 feet.	

RAMBOLL WELL LOG- 1FT INTERVAL - GINT STD US LAB_UPDATED.GDT - 12/16/22 12:53 - \\MWINDFPS1\SHARED\ADMIN FORMS & TEMPLATES\GINT\PROJECTS\THIRD SITE\PSGS\THIRD SITE - PSGS - 18, 19, 20, AND 15R.GPJ

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WELL ID: **PSGS-19**
BORING NUMBER: **PSGS-19**

CLIENT	Third Site Trustees	**PROJECT NAME**	Third Site
PROJECT NUMBER	1690020249	**PROJECT LOCATION**	Zionsville, IN
DATE STARTED	12/6/22 **COMPLETED** 12/7/22	**LOGGED BY**	Vitaliy Morozov **CHECKED BY** A. Dragos
DRILLING CONTRACTOR	Stock Drilling	**GROUND ELEVATION**	Not Measured **TOC ELEVATION** Not Measured
DRILLING EQUIPMENT	Terrasonic TSi 150CC	**NORTHING**	Not Measured **EASTING** Not Measured
DRILLER	Ryan Brown	**TOTAL BORING DEPTH**	55 ft bgs **BOREHOLE SIZE** 4.5 in
DRILLING METHOD	Rotosonic	**TOTAL WELL DEPTH**	46 ft bgs **SCREEN INTERVAL** 41-46 ft
SAMPLING METHOD	Core Barrel	**GROUNDWATER LEVEL**	1.38' btoc on 12/15/22

DEPTH (ft bgs)	RECOVERY (ft)	PID (ppm)	LABORATORY ID	WATER LEVEL	GRAPHIC LOG	SAMPLE DESCRIPTION	WELL CONSTRUCTION
0							
						POROUS CONCRETE	Protective Cover
1.0						(CL-ML) **SILTY CLAY** 10YR 4/1 dark gray, dry to moist, medium to high plasticity, soft, 15% sand, 20% gravel, slight to moderate odor	
2.5						(CL) **SANDY CLAY** 10YR 5/2 grayish brown, moist, low plasticity, soft, 5% gravel, slight to moderate odor	
2.8						(CL-ML) **SILTY CLAY** 10YR 4/1 drk. gray, dry to moist, medium to high plasticity, soft to firm, 10% sand, 5% gravel, moderate to strong odor	
						10YR 5/1 gray, non-plastic to low plasticity, 15% sand, 15% gravel	
						Medium to high plasticity, 10% sand, 5% gravel	
						10YR 4/1 dark gray, dark discoloration @ 5'-6.5' (10YR 2/1 black), black staining @ 7.25' (Gley 1 2.5/N black)	
7.3						(SW-SC) **CLAYEY SAND** 10YR 5/2 grayish brown, well graded, fine grained, moist, loose, slightly cohesive, 5% gravel, no to slight odor	
8.0						(GW) **SANDY GRAVEL** 10YR 6/2 light brownish gray, well graded, fine to medium grained, moist to wet, loose, trace clay, no odor	
10.5						Medium to coarse grained	
						(CL-ML) **SILTY CLAY** 10YR 4/1 dark gray, dry to moist, medium plasticity, firm to stiff, 15% sand, 10% gravel, w/ cobbles	
						Medium to high plasticity	
20.0						**19.5**: 3" clayey sand lense (10YR 4/1 dark gray, poorly graded, fine to medium grained, wet, loose, slightly cohesive, trace gravel)	Bentonite Grout Seal

Depth (ft bgs)	PID (ppm)
1	4.9
2	4.6
3	8.6
4	29.8
5	7
6	9.1
7	10.7
8	5.9
9	2.5
10	1.2
11	2.6
12	2.3
13	2.5
14	1
15	0.5
16	0.3
17	0.9
18	0.2
19	1

RECOVERY: 10.25 (0–10); 10.75 (10–20)

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RAMBOLL WELL LOG- 1FT INTERVAL - GINT STD US LAB_UPDATED.GDT - 12/16/22 12:53 - \\MWINDFPS1\SHARED\ADMIN FORMS & TEMPLATES\GINT\PROJECTS\THIRD SITE\PSGS\THIRD SITE - PSGS - 18, 19, 20, AND 15R.GPJ

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WELL ID: **PSGS-19**
BORING NUMBER: **PSGS-19**

CLIENT Third Site Trustees
PROJECT NAME Third Site
PROJECT NUMBER 1690020249
PROJECT LOCATION Zionsville, IN

DEPTH (ft bgs)	RECOVERY (ft)	PID (ppm)	LABORATORY ID	WATER LEVEL	GRAPHIC LOG	SAMPLE DESCRIPTION	WELL CONSTRUCTION
20							
		0.3				(CL) **SANDY CLAY** Gley 1 4/10Y dark greenish gray, moist to wet, low plasticity, soft, 10%	
21	gravel, cobbles @ 23'	0.4					
22		0.3					
23					23.0		
		0.5				(SW) **SAND** 10YR 5/2 grayish brown, well graded, fine to coarse grained, moist, loose, trace fines, 5-10% gravel, w/ cobbles	
24		0.6					
25	7	0.4					
26		1					
27		0.8					
28		1					
29		1.6					
30					30.0		
		0				(CL-ML) **SILTY CLAY** Gley 1 4/10Y dark greenish gray, mottled 10YR 5/4 yellowish brown, dry to moist, low plasticity, firm to stiff, 15% sand, 10% gravel, w/ cobbles	
31		0.3					
32		0.2				Gley 1 5/5GY greenish gray, mottled 10YR 4/6 dark yellowish brown, medium plasticity. firm	
33						High plasticity, soft	
		0.1			33.5	Gley 1 4/10Y dark greenish gray, low plasticity, stiff	
34					33.8	3" gravelly clay lense @ 33.5' (Gley 1 4/10Y dark greenish gray, wet to saturated, low plasticity, soft to firm, 15% sand)	
		0.2				(CL) **SANDY CLAY** Gley 1 4/10Y dark greenish gray, moist to wet, low to medium plasticity, soft, 10% gravel	
35	15.25	0.7				(CL-ML) **SILTY CLAY** Gley 1 5/N gray, mottled 10YR 5/6 yellowish brown, dry to moist, medium plasticity, stiff, 10% sand, 5% gravel	
36		0.3				Gley 1 4/N dark gray	
37		0.4					
38		0.4				Low plasticity	Bentonite Pellets Seal (Hydrated)
39		0.4					
40		0.1				10YR 4/1 dark gray, medium plasticity, stiff to very stiff, 10-15% sand, trace to 5% gravel	
41		0.8	PSGS-19 (41.0')				
		0.9					
42		0.6					
		0.4					Filter Sand Pack
43		0.3	PSGS-19 (43.0')				
		0.5					2" diam. 0.010-inch

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WELL ID:**PSGS-19**
BORING NUMBER:**PSGS-19**

CLIENT Third Site Trustees
PROJECT NAME Third Site
PROJECT NUMBER 1690020249
PROJECT LOCATION Zionsville, IN

DEPTH (ft bgs)	RECOVERY (ft)	PID (ppm)	LABORATORY ID	WATER LEVEL	GRAPHIC LOG	SAMPLE DESCRIPTION	WELL CONSTRUCTION
44	18.5	0.2	PSGS-19 (44.5')			10YR 4/1 dark gray, medium plasticity, stiff to very stiff, 10-15% sand, trace to 5% gravel *(continued)*	slotted Screen 41'-46'
		0.1					
45		0.5					
		0.2					
46		0.3	PSGS-19 (46.0')				
		0.2					Filter Sand
47		0.1				Firm to stiff	
		0.1					
48		0.1					
		0.2				Stiff to very stiff	
49		0.1					
		0.1	PSGS-19 (49.5')				
50		0.7					
	10	0.2				Very stiff	
51		0.2					
		0.2	PSGS-19 (51.5')				Hydrated Bentonite Pellets
52		0.2					
		0.2					
53		0.2	PSGS-19 (53.0')			Medium to high plasticity	
		0.2					
54		0.2					
		0.2				Gley 1 5/5G_/1 greenish gray, mottled 10YR 5/8 yellowish brown	
55		0.1	PSGS-19 (55.0')			55.0	
		0.2				Bottom of borehole at 55.0 feet.	

RAMBOLL WELL LOG- 1FT INTERVAL - GINT STD US LAB_UPDATED.GDT - 12/16/22 12:53 - \\MWINDFPS1\SHARED\ADMIN FORMS & TEMPLATES\GINT\PROJECTS\THIRD SITE\PSGS\THIRD SITE - PSGS - 18, 19, 20, AND 15R.GPJ

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WELL ID: **PSGS-20**
BORING NUMBER: **PSGS-20**

CLIENT Third Site Trustees
PROJECT NAME Third Site
PROJECT NUMBER 1690020249
PROJECT LOCATION Zionsville, IN
DATE STARTED 12/7/22 **COMPLETED** 12/8/22
LOGGED BY Vitaliy Morozov **CHECKED BY** A. Dragos
DRILLING CONTRACTOR Stock Drilling
GROUND ELEVATION Not Measured **TOC ELEVATION** Not Measured
DRILLING EQUIPMENT Terrasonic TSi 150CC
NORTHING Not Measured **EASTING** Not Measured
DRILLER Ryan Brown
TOTAL BORING DEPTH 60 ft bgs **BOREHOLE SIZE** 4.5 in
DRILLING METHOD Rotosonic
TOTAL WELL DEPTH 46 ft bgs **SCREEN INTERVAL** 41-46 ft
SAMPLING METHOD Core Barrel
GROUNDWATER LEVEL 0.80' btoc on 12/15/22

DEPTH (ft bgs)	RECOVERY (ft)	PID (ppm)	LABORATORY ID	WATER LEVEL	GRAPHIC LOG	SAMPLE DESCRIPTION	WELL CONSTRUCTION
0							
1	10.25	0.1		▼		**POROUS CONCRETE** (1.0)	Protective Cover
2		4.9				(GP) **GRAVEL** 10YR 6/2 light brownish gray, poorly graded, coarse grained, wet, loose, trace fines (1.5); (SW-SC) **CLAYEY SAND** 10YR 5/4 yellowish brown, well graded, fine to coarse grained, moist, loose, slightly cohesive, 5% gravel (2.0)	
3		5.7				(CL-ML) **SILTY CLAY** 10YR 4/1 dark gray, mottled 10YR 2/1 black, dry to moist, low plasticity, soft to firm, 15% f-c. sand, 10% gravel	
4		6.2				Black staining and moderate odor @ 3'-5' Gley 1 3/10Y dark greenish gray, mottled Gley 1 6/10GY greenish gray, medium plasticity	
5		3.8				10YR 4/1 dark gray, mottled Gley 1 6/5GY greenish gray, medium to high plasticity, slight odor @ 5'-6.5'	
6		0.9				(6.5)	
7		1.5				(CL) **SANDY CLAY** 10YR 5/2 grayish brown, moist, low plasticity, soft, w/ f. sand, no gravel (7.0)	
8		1.9				(SW) **SAND** 10YR 6/2 light brownish gray, well graded, fine to coarse grained, moist, loose, 5% clay, 5% gravel	
9		1				(9.0)	
10		0.8				(GW) **SANDY GRAVEL** 10YR 6/1 gray, well graded, fine to coarse grained, wet, loose, 5% fines (9.5); (CL) **SANDY CLAY** 10YR 5/2 grayish brown, moist, low plasticity, soft to firm, w/ f. sand, no gravel (10.5)	
11		0.6				Wet, very soft, w/ f-m. sand, 5% gravel (SW) **SAND** 10YR 5/4 yellowish brown, well graded, medium to coarse grained, wet, loose, trace clay, 5% f. gravel (12.0)	
12		2.3				(CL-ML) **SILTY CLAY** 10YR 5/1 gray, dry to moist, low plasticity, firm to stiff, 10% f-m. sand, 5% f. gravel	
13		2.3					
14		0.8					
15	10.75	1					
16		0.7				Medium plasticity	
17		0.1					
18		1					
19		1.2					
20						(19.8)	Bentonite Grout Seal

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RAMBOLL WELL LOG- 1FT INTERVAL - GINT STD US LAB_UPDATED.GDT - 12/16/22 12:53 - \\MWINDFPS1\SHARED\ADMIN FORMS & TEMPLATES\GINT\PROJECTS\THIRD SITE\PSGS\THIRD SITE - PSGS - 18, 19, 20, AND 15R.GPJ

Ramboll
One Indiana Square
Suite 2335
Indianapolis, IN 46204

WELL ID: **PSGS-20**
BORING NUMBER: **PSGS-20**

CLIENT Third Site Trustees
PROJECT NAME Third Site
PROJECT NUMBER 1690020249
PROJECT LOCATION Zionsville, IN

DEPTH (ft bgs)	RECOVERY (ft)	PID (ppm)	LABORATORY ID	WATER LEVEL	GRAPHIC LOG	SAMPLE DESCRIPTION	WELL CONSTRUCTION
20							
21	5.75	0.6				(SW) **SAND** 10YR 6/2 light brownish gray, well graded, fine to medium grained, moist to wet, loose, slightly cohesive, 10% clay, 5% f-m. gravel	
22		0.9				10YR 5/3 brown, fine to coarse grained, moist, trace clay, 10% f-m. gravel, w/ cobbles	
23		1					
24		1.1					
25		0.7					
26		0.6					
27		0.7					
28		1.7				Gley 1 4/10Y dark greenish gray, 10% clay, 15% f-c. gravel	
29		4.3					
30		3.8					
31	12	0				30.0 30.3 (CL-ML) **SILTY CLAY** Gley 1 5/N gray, dry to moist, medium to high plasticity, firm, 5% f-c. sand, trace gravel 30.8	
32		0.1				(GP-GC) **CLAYEY GRAVEL** 10YR 6/1 gray, poorly graded, medium to coarse grained, moist, loose, 5% c. sand 31.5	
33		0.2				(CL-ML) **SILTY CLAY** Gley 1 5/5G_/2 grayish green, mottled 10YR 5/8, dry to moist, medium to high plasticity, firm, 15% f-c. sand, 10% gravel 32.0 32.5	
34		0.5				(SP-SC) **CLAYEY SAND** Gley 1 5/10Y greenish gray, poorly graded, fine grained, moist, firm, moderately cohesive, no gravel	
35		2				(CL) **SANDY CLAY** Gley 1 5/10Y greenish gray, moist, low plasticity, soft, 5% f. gravel	
36		1.2				(CL-ML) **SILTY CLAY** Gley 1 5/10Y greenish gray, mottled 10YR 5/8 yellowish brown and Gley 1 5/10GY greenish gray, moist, medium plasticity, firm to stiff, 10% f-m. sand, 5% f-m. gravel	
37		3.1				10YR 5/3 brown, dry to moist, non-plastic, stiff, 15% f-c. sand, trace gravel	
38		3.5				10YR 4/1 dark gray, dry, very stiff, 15% f-m. sand	
39		2.6					Bentonite Pellets Seal (Hydrated)
40		3.7					
41		0.2	PSGS-20 (40.0')			40.0 (CL) **SANDY CLAY** 10YR 4/1 dark gray, moist, low plasticity, firm, 5% f. gravel 40.8	
42		0.7				(CL-ML) **SILTY CLAY** 10YR 4/1 dark gray, dry to moist, medium plasticity, firm to stiff, 5% f-m. sand, trace f. gravel	
43		2.4	PSGS-20 (41.5')				
		7.5					Filter Sand Pack
		52.4					
		48.7	PSGS-20 (43.0')				
		597.1				Low to medium plasticity, very stiff	2" diam. 0.010-inch

(Continued Next Page)

Ramboll
One Indiana Square
Suite 2335
Indianapolis, IN 46204

WELL ID: **PSGS-20**
BORING NUMBER: **PSGS-20**

CLIENT Third Site Trustees
PROJECT NAME Third Site
PROJECT NUMBER 1690020249
PROJECT LOCATION Zionsville, IN

DEPTH (ft bgs)	RECOVERY (ft)	PID (ppm)	LABORATORY ID	WATER LEVEL	GRAPHIC LOG	SAMPLE DESCRIPTION	WELL CONSTRUCTION
44	13.25	450.6	PSGS-20 (44.0')			Low to medium plasticity, very stiff *(continued)*	slotted Screen 41'-46'
		714.3					
45		407.7					
		152.4					
46		91.5	PSGS-20 (46.0')				
		124.4					
47		117.5					Filter Sand
		85.7					
48		30.7	PSGS-20 (48.0')				
		36.4					
49		28.8					
		3.5					
50		23					
	10	18.5				Medium plasticity, stiff, 10% f-m. sand, no gravel	
51		14.2					Hydrated Bentonite Pellets
		27	PSGS-20 (51.5')				
52		100.1				Medium to high plasticity, very stiff, 5% f-m. sand, trace gravel	
		20.2					
53		3.9					
		8.1	PSGS-20 (53.5')				
54		37.8				Gley 1 4/5GY dark greenish gray, mottled 10YR 5/3 brown	
		166.7	PSGS-20 (54.0')				
55		49.6					
	7.25	3.2	PSGS-20 (55.5')			10YR 4/1 dark gray, mottled 2.5Y 6/4 light yellowish brown, wet, soft to firm, 15% f-m. sand, 5% f. gravel, strong odor @ 55'-57'	
56		1223					
		235.2	PSGS-20 (56.5')			Moist	
57		1238				Gley 1 5/10GY greenish gray, mottled light olive brown dry to moist Stiff, 5% f-m. sand, 5% f-m. gravel, w/cobbles, black staining (56.5')	
		5.5				Gley 1 5/5G_/2 grayish green, low to medium plasticity	
58		1.3	PSGS-20 (58.0')				
		5.6				15% f-m. sand, 10% f. gravel	
59		0.5				Very stiff	
		0.3				10YR 6/1 gray, dry, non-plastic	
60		0.4	PSGS-20 (60.0')		60.0		
		0.2				Bottom of borehole at 60.0 feet.	

Note: *A grab groundwater sample from the 52-57 ft depth interval corresponding to high PID readings was attempted. After a three-hour water recharge waiting period, the boring remained dry and it was properly abandoned.*

RAMBOLL WELL LOG- 1FT INTERVAL - GINT STD US LAB_UPDATED.GDT - 12/16/22 12:53 - \\MWINDFPS1\SHARED\ADMIN FORMS & TEMPLATES\GINT\PROJECTS\THIRD SITE\PSGS\THIRD SITE - PSGS - 18, 19, 20, AND 15R.GPJ