

# MONITORING WELL ID: AEC32-MW17-27



Well Type: Groundwater monitoring Well

Project Location: AEC32

Drilling Contractor: Omega Environmental Drilling Ltd.

Drilling Equipment/Method: Sonic

Well Location: AEC 32

Project Name/No.: [REDACTED]

Client: PSPC

Engineer/Geologist: [REDACTED]

Drill Date: July 11, 2017

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Depth (ft/m)	Symbol	Soil / Sediment Description	Sample Type	% Recovery	Sample Analyzed	Sample ID	Headspace (PID)					Well Construction	Remarks
							0	500	1000	1500	2000		
0		Ground Surface											
0.3		<b>SAND</b> Dark brown, medium to coarse grained SAND, some organics. Loose, moist, low odours, staining not observed.	G	100	N	MW17-27 (0.4)	0.3						
2.7		<b>SAND</b> Brown to grey, fine to coarse grained SAND, trace fine to medium gravel (rounded), trace silt, trace rootlets. Loose, moist, staining and/or odours not observed. Increasing silt at 1.0m	G	95	N	MW17-27 (1.2)	2.7						
0.8			G	95	N	MW17-27 (1.7)	0.8						
0.8		Gravel coarse at 2.4m	G	105	N	MW17-27 (2.4)	0.8						
0.0		Brown mottling at 2.7m					0.0						
0.0		Trace cobbles at 3.4m	G	105	N	MW17-27 (3.6)	0.0						
0.1		Increasing silt at 3.8m	G	105	N	MW17-27 (4.6)	0.1						
0.4			G	105	N	MW17-27 (5.5)	0.4						
0.5			G	105	N	MW17-27 (6.1)	0.5						

Date of Water Level: N/A	Well-Borehole Diameter: 150 mm (6")	Depth of Well (TOC): N/A
Water Level (from TOC): N/A	Well Casing Diameter: N/A	
	Well Casing Material: N/A	
	Well Screen Slot Size: N/A	

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Depth (ft/m)	Symbol	Soil / Sediment Description	Sample Type	% Recovery	Sample Analyzed	Sample ID	Headspace (PID)					Well Construction	Remarks
							0	500	1000	1500	2000		
21		<b>Sandy SILT</b> Brown, sandy fine grained sand SILT, some fine to coarse grained gravel. Medium stiff, moist, staining and/or odours not observed.											
22													
23	7	Grey with trace cobbles at 7.3m	G	105	N	MW17-27 (7.0)	0.9						
24													
25													
26	8		G	105	N	MW17-27 (7.9) / MW17-W	16.3						
27													
28		<b>Gravelly SILT</b> Grey with brown mottling, fine to medium grained gravelly SILT(till), massive. Stiff, moist, staining and/or odours not observed.	G	105	N	MW17-27 (8.5)	0.0						
29													
30	9												
31			G	150	N	MW17-27 (9.5)	0.2						
32													
33	10		G	150	Y	MW17-27 (10.3)	0.2						
34		Grey with medium to coarse sand at 10.4m											
35													
36	11		G	150	N	MW17-27 (11.0)	0.0						
37													
38		Very stiff at 11.3m											
39	12		G	150	N	MW17-27 (11.7)	0.1						
40													
41													
42													
43	13		G										

Date of Water Level: N/A  
Water Level (from TOC): N/A

Well-Borehole Diameter: 150 mm (6")  
Well Casing Diameter: N/A  
Well Casing Material: N/A  
Well Screen Slot Size: N/A

Depth of Well (TOC): N/A

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							0	500	1000	1500	2000		
43		<b>Gravelly SILT</b> Grey with brown mottling, fine to medium grained gravelly SILT(till), massive. Stiff, moist, staining and/or odours not observed.	G	150	Y	MW17-27 (13.1)	0.3						
44													
45		<b>Sandy SILT</b> Brown, fine to coarse grained sandy SILT, some fine to medium gravel (rounded), Dense, moist, staining and/or odours not observed.	G	150	N	MW17-27 (14.0)	0.0						
46													
47		<b>SILT</b> Dark grey, SILT (till), trace fine to large gravel (rounded), massive, trace coarse sand. Very dense, dry to moist, staining and/or odours not observed.	G	130	N	MW17-27 (14.8)	1.4						
48													
49			G	130	N	MW17-27 (15.8)	1.1						
50													
51		Hard at 16.4 m											
52													
53		<b>SILT</b> Light grey, SILT, some medium to coarse sand, some fine to medium gravel. Hard, dry, staining and/or odours not observed.	G	130	N	MW17-27 (17.0)	4.7						
54													
55		<b>SAND and GRAVEL</b> Brown, fine to coarse grained SAND and GRAVEL, trace silt. Loose, dry to moist, staining and/or odours not observed.	G	75	N	MW17-27 (18.0)	2.5						
56													
57		<b>SAND</b> Brown, fine to coarse grained SAND. Loose, moist to wet, staining and/or odours not observed.	G	75	N	MW17-27 (19.3)	1.2						
58													

Date of Water Level: N/A  
Water Level (from TOC): N/A

Well-Borehole Diameter: 150 mm (6")  
Well Casing Diameter: N/A  
Well Casing Material: N/A  
Well Screen Slot Size: N/A

Depth of Well (TOC): N/A

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Drill Date: July 11, 2017

Depth (ft/m)	Symbol	Soil / Sediment Description	Sample Type	% Recovery	Sample Analyzed	Sample ID	Headspace (PID)					Well Construction	Remarks
							0	500	1000	1500	2000		
65	20	<b>Sandy SILT</b> Brown, fine to medium grained sandy SILT, some fine to medium gravel. Soft, moist, staining and/or odours not observed.	G	75	N	MW17-27 (20.1)		4.2					
66													
67	21	<b>SAND and GRAVEL</b> Brown, fine to coarse grained SAND and GRAVEL, some silt, trace cobbles. Loose, moist, staining and/or odours not observed.	G	85	N	MW17-27 (20.9)		0.6					
68													
69	22	<b>SAND</b> Brown, fine to coarse grained SAND, some fine to medium gravel (rounded), Loose, moist, staining and/or odours not observed.	G	85	N	MW17-27 (21.9)		0.5					
70													
71	23	<b>SAND</b> Grey, fine to coarse grained SAND, trace fine gravel, trace silt. Loose, moist, staining and/or odours not observed.	G	85	N	MW17-27 (22.7)		0.8					
72													
73	24	<b>Gravelly SAND</b> Grey, fine to medium gravelly medium to coarse grained SAND. Loose, wet, staining and/or odours not observed.	G	65	N	MW17-27 (23.6)		0.4					
74													
75	25		G	65	Y	MW17-27 (25.2)		0.5					
76													
77	26		G	65	N	MW17-27 (26.2)		0.9					
78													
79													
80													
81													
82													
83													
84													
85													
86													

Bentonite

Date of Water Level: N/A	Well-Borehole Diameter: 150 mm (6")	Depth of Well (TOC): N/A
Water Level (from TOC): N/A	Well Casing Diameter: N/A	
	Well Casing Material: N/A	
	Well Screen Slot Size: N/A	

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Drill Date: July 11, 2017

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Depth (ft/m)	Symbol	Soil / Sediment Description	Sample Type	% Recovery	Sample Analyzed	Sample ID	Headspace (PID)					Well Construction	Remarks	
							0	500	1000	1500	2000			
87	27	<b>SILT</b> Grey with brown mottling, SILT, trace fine to coarse sand, trace fine to medium gravel, massive. Medium stiff, moist, staining and/or odours not observed.	G	150	N	MW17-27 (26.8)	0.2					[Hatched]		
88														
89														
90														
91			G	150	N	MW17-27 (27.7)	0.5							
92														
93			G	150	N	MW17-27 (28.5)	0.5							
94														
95														
96			G	150	N	MW17-27 (29.3)	0.5							
97														
98														
99														
100	G	150	N	MW17-27 (30.3)	0.0									
101														
102	G	150	N	MW17-27 (31.1)	0.0									
103														
104														
105														
106	G	145	N	MW17-27 (32.3)	0.0									
107														
108	G	145	N	MW17-27 (32.9)	0.8									

Date of Water Level: N/A  
Water Level (from TOC): N/A

Well-Borehole Diameter: 150 mm (6")  
Well Casing Diameter: N/A  
Well Casing Material: N/A  
Well Screen Slot Size: N/A

Depth of Well (TOC): N/A

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							0	500	1000	1500	2000		
09													
10													
11													
12	34												
13			G	145	N	MW17-27 (34.4)		0.6					
14													
15	35	Becoming wet at 35.0m											
16			G	145	N	MW17-27 (35.2)		1.0					
17													
18	36												
19			G	150	Y	MW17-27 (36.3)		0.9					
20													
21	37												
22			G	150	N	MW17-27 (37.2)		0.7					
23													
24	38	Brown weathered rock at 38.0 m											
25													
26			G	150	N	MW17-27 (38.4)		0.5					
27		End of Hole											
28	39												
29													
30													

10/20 silica sand and well screen

Date of Water Level: N/A	Well-Borehole Diameter: 150 mm (6")	Depth of Well (TOC): N/A
Water Level (from TOC): N/A	Well Casing Diameter: N/A	
	Well Casing Material: N/A	
	Well Screen Slot Size: N/A	