

# MONITORING WELL ID: MW17-16



**Well Type:** Groundwater Monitoring Well

**Project Location:** Watson Lake Airport, Yukon

**Drilling Contractor:** Omega Environmental Drilling Ltd., Sonic Drilling Ltd. **Client:** PWGSC

**Drilling Equipment/Method:** Sonic

**Well Location:** AEC 32

**Project Name/No.:** [REDACTED]

**Engineer/Geologist:** [REDACTED]

**Drill Date:** July 8, 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		
ft m													
-4													
-3													
-2													
-1													
0		Ground Surface											
0		<b>SAND</b> Brown, fine to medium grained SAND, some gravel. Loose, moist, odour and/or staining not observed.											
1			105			MW17-16 (0.4)							
2													
3													
4			105			MW17-16 (1.4)							
5													
6													
7													
8		<b>SAND</b> Brown, fine grained SAND (till), some silt and fine grained rounded gravel. Dense, moist, odour and/or staining not observed.											
9			105			MW17-16 (2.6)							
10		Dense below 3 m.											
11													
12													
13		Less gravel at 3.8 m.											
14													
15		Large cobbles at 4.3 m.											
			130			MW17-16 (3.3)							
			130	N		MW17-16 (4.3)							

Date of Water Level: July 12, 2017	Well-Borehole Diameter: 150 mm (6")	Depth of Well (TOC): 37.29 m
Water Level (from TOC): 34.729 m	Well Casing Diameter: 50 mm (2")	
	Well Casing Material: Schedule 40 PVC	
	Well Screen Slot Size: 10 Slot	

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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		
16	[Symbol]	Very dense below 5.8 m.	[Symbol]	130	N	MW17-16 (5.6)	2.6						
17													
18													
19		Grey in colour, with less sand below 6.4 m.	[Symbol]	140	N	MW17-16 (6.7)	3.0						
20													
21													
22		Light brown in colour, with more sand at 8.2 m.	[Symbol]	140	N	MW17-16 (7.7)	3.1						
23													
24													
25		Dark brown in colour, with some cobbles at 10 m.	[Symbol]	140	N	MW17-16 (8.3)	2.3						
26													
27													
28	[Symbol]	[Symbol]	150	N	MW17-16 (9.4)	2.3							
29													
30													
31	[Symbol]	[Symbol]	150	N	MW17-16 (10.4)	3.1							
32													
33													
34													
35													

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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		
36	11	Grey in colour below 11 m.											
39	12	Brown in colour below 12.2 m.		150	N	MW17-16 (11.9)	2.3						
41				150	N	MW17-16 (12.7)	2.0						
42		<b>Silty GRAVEL</b> Grey silty GRAVEL (till). Very dense, moist, odour and/or staining not observed.											
43	13			125	Y	MW17-16 (13.1)	2.4						
44		<b>SAND</b> Light brown, fine to medium grained SAND, trace silt. Loose, moist, odour and/or staining not observed.											
45				125	N	MW17-16 (13.8)	2.4						
46	14	<b>SILT</b> Light brown SILT with some medium, rounded gravel, trace sand. Moderately stiff, moist, odour and/or staining not observed.											
47				125	N	MW17-16 (14.3)	14.4						
48		<b>SILT</b> Grey SILT (till), decreased gravel content.											
49	15												
51				125	N	MW17-16 (15.5)	3.5						
52	16	Dark grey in colour, and increasingly dense below 15.8 m.											
54		Less gravel below 16.5 m.											
55				125	N	MW17-16 (16.6)	2.3						

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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		
56													
57													
58													
59	18												
60													
61		<b>SANDY SILT (TILL)</b> Dark grey SANDY SILT (TILL), trace gravel. Stiff, moist, odour and/or staining not observed.		125	N	MW17-16 (18.4)		3.5					
62	19												
63		<b>SAND and GRAVEL</b> Light grey to brown, coarse grained SAND and medium, rounded GRAVEL. Loose, dry, odour and/or staining not observed.		110	N	MW17-16 (19.0)		4.5					
64													
65													
66	20												
67		Increased gravel size at 20.4 m.		110	N	MW17-16 (20.5)		5.9					
68													
69	21	Increase in silt with some cobbles at 20.7 m.		100	N	MW17-16 (21.0)		11.5					
70													
71													
72	22												
73													
74													
75													

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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		
76		Decrease in gravel at 22.9 m.	11	100	Y	MW17-16 (23.0)	21.1						
77		Increased SAND grain size at 23.5 m.	11	100	N	MW17-16 (23.6)	5.4						
78													
79		24	Increase in silt at 24.1 m.										
80			Decreased gravel size at 24.4 m.										
81													
82	25	Fine grained SAND at 25 m.	11	100	N	MW17-16 (25.2)	5.0						
83													
84													
85	26												
86		Increased SAND grain size below 26.2 m.											
87			11	100	N	MW17-16 (26.6)	8.1						
88													
89	27												
90			11	80	N	MW17-16 (27.4)	3.8						
91													
92	28												
93													
94			11	80	N	MW17-16 (29.0)	18.4						
95													

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							0	500	1000	1500	2000		
96		<b>SILT</b> Light brown SILT. Moderately stiff, moist, odour and/or staining not observed.											
97			80	N		MW17-16 (29.6)		3.8					
98	30												
99													
100			125	N		MW17-16 (30.6)		3.4					
101													
102	31												
103													
104													
105			125	N		MW17-16 (31.9)		3.8					
106	32	Grey in colour, and increased moisture below 32.3 m.											
107													
108													
109	33	<b>SAND</b> Brown, fine grained SAND, trace silt. Loose, moist, odour and/or staining not observed.	110	N		MW17-16 (33.0)		5.1					
110		<b>SANDY SILT</b> Grey SANDY SILT. Moderately stiff, dry to moist, odour and/or staining not observed.											
111													
112	34	Increase in SAND at 34.1 m.	110	N		MW17-16 (34.0)		4.3					
113													
114													
115	35		110	Y		MW17-16 (35.0)		4.7					

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							0	500	1000	1500	2000		
16	[Symbol: Fine Grained Sand]	Very fine grained, soft, and saturated below 35.4 m.	[Symbol: PVC]	110	N	MW17-16 (35.7)						[Symbol: Well Screen and 10/20 Silica Sand]	Well Screen and 10/20 Silica Sand
17							3.8						
18													
19	[Symbol: Fine Grained Sand]		[Symbol: PVC]	120	N	MW17-16 (36.5)							
20							4.3						
21													
22	[Symbol: Fine Grained Sand]		[Symbol: PVC]	120	N	MW17-16 (38.0)							
23							4.7						
24													
25		End of Hole											
26	[Symbol: Fine Grained Sand]		[Symbol: PVC]										
27													
28													
29	[Symbol: Fine Grained Sand]		[Symbol: PVC]										
30													
31													
32	[Symbol: Fine Grained Sand]		[Symbol: PVC]										
33													
34													
35													

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