

MONITORING WELL ID: MW16-01



Well Type: Groundwater Monitoring Well

Project Location: Watson Lake Airport - AEC 32, YT

Drilling Contractor: Omega Environmental Drilling Ltd.

Drilling Equipment/Method: Sonic

Well Location: Tank Farm B, MW16-B

Project Name/No.: [REDACTED]

Client: PWGSC

Engineer/Geologist: [REDACTED]

Drill Date: November 9, 2016 Page: 1 of 3

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													
-2													
-1													
0		Ground Surface											
1		SAND Light brown, fine to medium SAND with some gravel and trace organics (roots). Loose, dry to moist, staining and odours not observed. No organics below 0.1m.		100	N	MW16-01 (0.5)	0.6						Concrete
2													
3		SAND Brown, fine to medium SAND with some silt and trace gravel. Compact below 1.0m. Moisture, staining and odours not observed.		100	Y	MW16-01 (1.2)	0.8						Bentonite
4													
5													
6													
7													
8		SAND Brown, fine to medium SAND with some silt and some to trace fine gravel. Compact, dense, dry, low to no plasticity, no odours observed.		100	N	MW16-01 (2.4)	0.6						
9													
10													
11													
12		SAND Brown, fine to medium soft SAND. Loose, wet, low plasticity, no odours observed.											
13													
14		SAND Dark brown to brown mottled, fine to medium SAND with some silt and trace fine to medium gravel. Compact, dense, dry, staining and odours not observed.		115	N	MW16-01 (4.0)	0.8						Well Screen and Silica Sand
15													
16													
17													
18													Bentonite

Date of Water Level: November 24, 2016
Water Level (from TOC): 5.33m

Well-Borehole Diameter: 150mm (6")
Well Casing Diameter: 50mm (2")
Well Casing Material: Schedule 40 PVC
Well Screen Slot Size: 10 Slot

Depth of Well (TOC): 5.61m

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							0	500	1000	1500	2000		
19	6	SAND Dark brown to brown mottled, fine to medium SAND with some silt and trace fine to medium gravel. Compact, dense, dry, staining and odours not observed.											
20		SAND Dark brown, fine to medium SAND with some silt and trace gravel. Very dense, dry, staining and odours not observed.		140	N	MW16-01 (6.0)	0.9						
21	7	SAND Dark brown, fine to medium SAND with some silt and trace gravel. Very dense, dry, staining and odours not observed.											
22		SAND Dark brown, fine to medium SAND with some silt and trace gravel. Very dense, dry, staining and odours not observed.											
23		SAND Dark brown, fine to medium SAND with some silt and trace gravel. Very dense, dry, staining and odours not observed.		140	N	MW16-01 (7.0)	1.4						
24	8	SAND Grey and dark brown, fine to medium SAND with trace silt and trace gravel. Very dense, dry, staining and odours not observed.		140	N	MW16-01 (7.2)	1.1						
25													
26				140	N	MW16-01 (8.0)	1.3						
27													
28	9												
29													
30				120	N	MW16-01 (9.0)	4.8						
31	10												
32													
33				120	Y	MW16-01 (10.0)				4000			
34													
35	11												
36		SAND Brown, fine to medium SAND with trace silt and trace gravel. Compact, dry, moderate odours at 10.8m, no staining observed.		120	N	MW16-01 (11.0)				1500.0			
37													
38													
39													

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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		
40	[Symbol]	SAND Brown and grey, fine to medium SAND with some silt and trace gravel. Dense, dry, moderate HC like odours at 11.5m, no staining observed.	[Symbol]	120	N	MW16-01 (12.0)		570.0					
41	[Symbol]	Sandy SILT Dark grey, very fine sandy SILT with some fine to medium gravel. Very compact, very dense, dry, low odours, no staining observed.	[Symbol]										
43	[Symbol]		[Symbol]		Y	MW16-01 (13.0)		47.2					
46	[Symbol]		[Symbol]		N	MW16-01 (14.0)		11.1					
48	[Symbol]		[Symbol]		Y	MW16-01 (15.0)		14.6					
49	[Symbol]	End of Hole											
50	[Symbol]	Slough encountered at 11.5m. Had significant odour. Interpreted as fall down from section at 10.2m.											
52	[Symbol]	Disturbed, not representative.											

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