

MONITORING WELL ID: MW16-04



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 A Access Road

Project Name/No.: [REDACTED]
 Client: PWGSC
 Engineer/Geologist: [REDACTED]
 Drill Date: November 11, 2016 Page: 1 of 6

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											
0.5		SAND Brown, fine to medium SAND with trace silt and trace gravel. Loose, dry, staining and odours not observed.	G	100	N	MW16-04 (0.5)	0.4						
2.0		SAND Brown, fine to medium SAND with some silt and trace gravel. Compact, dry, staining and odours not observed.	G	120	N	MW16-04 (2.0)	0.6						
3.0		SAND Brown SAND with trace silt and trace gravel. Loose, dry, staining and odours not observed.	G	115	N	MW16-04 (3.0)	0.7						
4.0		SAND Brown SAND with some silt and some fine gravel. Slightly dense, wet, staining and odours not observed.	G	115	N	MW16-04 (4.0)	1.9						

Date of Water Level: November 22, 2016
 Water Level (from TOC): P1: 18.193 P2: Dry
 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): P1: 18.432 P2: N/A
 Perched @ 4.0m

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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	5	SAND Brown SAND with some silt and some fine gravel. Slightly dense, wet, staining and odours not observed.											
17		Silty SAND Brown silty SAND with some fine to medium gravel and trace orange staining below 5.5m. Compact, dense, dry, odours not observed.	G	115	N	MW16-04 (5.0)		1.3					
18	6												
19		Silty SAND Grey, silty fine to medium SAND with trace gravel and trace orange staining from 7.2 - 7.4m. Dense, moist, low plasticity, no odours observed.	G	145	N	MW16-04 (6.0)		0.8					
20	7												
21		Silty SAND Grey, silty fine to medium SAND with trace gravel and trace orange staining from 7.2 - 7.4m. Dense, moist, low plasticity, no odours observed.	G	145	N	MW16-04 (7.0)		0.6					
22	8												
23		Silty SAND Grey, silty fine to medium SAND with trace gravel and trace orange staining from 7.2 - 7.4m. Dense, moist, low plasticity, no odours observed.	G	145	N	MW16-04 (8.0)		0.9					
24	9												
25		Silty SAND Grey, silty fine to medium SAND with trace gravel and trace orange staining from 7.2 - 7.4m. Dense, moist, low plasticity, no odours observed.	G	130	N	MW16-04 (9.0)		0.9					
26	10												
27		Silty SAND Grey, silty fine to medium SAND with trace gravel and trace orange staining from 7.2 - 7.4m. Dense, moist, low plasticity, no odours observed.											
28													
29													
30													
31													
32													
33													

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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		
34	11	Silty SAND Grey, silty fine to medium SAND with trace gravel and trace orange staining from 7.2 - 7.4m. Dense, moist, low plasticity, no odours observed.	G	130	N	MW16-04 (10.0)	2.7					Bentonite	
35													
36	11	SAND Grey and orange staining SAND with some silt and trace gravel. Very dense, dry, low plasticity, no odours observed.	G	130	N	MW16-04 (11.0)	3.1					Bentonite	
37													
38	12	SAND Brown fine to medium SAND, trace silt, trace to no gravel. Trace orange staining at 12.6 - 12.8m. Loose, moist, no odours were observed.	G	135	N	MW16-04 (12.0)	4.2					Bentonite	
39													
40	13										Bentonite		
41													
42	13										Bentonite		
43													
44	14	SILT Brown to grey and grey SILT with some fine to medium sand and trace gravel. Dense, dry, no plasticity, low odours. Trace orange staining at 13.8 - 14.0m on silt, trace fine sand.	G	135	Y	MW16-04 (14.0)	96.4					Sand and Well Screen Perched @ 15.2m	
45													
46	14										Sand and Well Screen Perched @ 15.2m		
47													
48	15	SILT Medium stiff, moist, low plasticity, no odours observed.									Sand and Well Screen Perched @ 15.2m		
49													
50	15										Sand and Well Screen Perched @ 15.2m		
51													
			G	110	N	MW16-04 (15.3)	1.2						

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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		
52		SILT Medium stiff, moist, low plasticity, no odours observed.											
53	16	SAND Grey, fine to medium SAND with trace silt. Compact, wet, staining and odours not observed.	G	110	Y	MW16-04 (16.0)	1.2						
54		SAND Brown, fine to medium SAND with trace silt. Compact, wet, odours not observed.											
55		Orange staining at 17.0 - 17.2m.											
56	17	Moist below 17.3m.	G	110	N	MW16-04 (17.0)	0.8						
57													
58													
59	18		G	110	N	MW16-04 (18.0)	3.1						
60													
61													
62	19		G	110	N	MW16-04 (19.0)	4.1						
63													
64													
65	20	SAND and GRAVEL Brown fine to medium SAND and GRAVEL, trace to no silt. Compact, dry to moist, staining and odours not observed.	G	110	N	MW16-04 (20.0)	4.0						
66													
67		SAND Brown, fine to medium SAND with trace silt and trace gravel. Compact, dry to moist, staining and odours not observed.											
68													
69	21												

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							0	500	1000	1500	2000		
70	[Symbol]	SAND Brown, fine to medium SAND with trace silt and trace gravel. Compact, dry to moist, staining and odours not observed.	G	110	N	MW16-04 (21.0)	2.9					[Well Construction Diagram]	Bentonite
72													
73	[Symbol]	SAND Brown, fine to medium SAND with some gravel. Compact, dry, staining and odours not observed.	G	110	N	MW16-04 (22.0)	1.5					[Well Construction Diagram]	Bentonite
74													
76	[Symbol]	SAND Grey, fine to coarse SAND with trace to no silt, washed look appearance. Loose, wet, staining and odours not observed.	G	110	N	MW16-04 (23.0)	2.5					[Well Construction Diagram]	Sand and Well Screen
77													
79	[Symbol]	SAND Grey, fine to coarse SAND with trace silt below 25.2m. Loose, dry, staining and odours not observed.	G	90	N	MW16-04 (24.0)	1.7					[Well Construction Diagram]	Sand and Well Screen
80													
82	[Symbol]	SAND Grey, fine to coarse SAND with trace silt below 25.2m. Loose, dry, staining and odours not observed.	G	90	N	MW16-04 (25.0)	0.6					[Well Construction Diagram]	Sand and Well Screen
83													
85	[Symbol]	SAND Grey, fine to coarse SAND with trace silt below 25.2m. Loose, dry, staining and odours not observed.	G	90	N	MW16-04 (26.0)	0.8					[Well Construction Diagram]	Sand and Well Screen
86													

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							0	500	1000	1500	2000		
88		SAND Grey, fine to coarse SAND with trace silt below 25.2m. Loose, dry, staining and odours not observed.											
89		SAND Grey, medium to coarse SAND. Loose, saturated, staining and odours not observed.											
92			G	80	Y	MW16-04 (28.4)				1.3			
94		SAND Light brown fine SAND. Loose, wet, staining and odours not observed.	G	80	N	MW16-04 (28.7)				0.5			
96		SILT Brown SILT. Stiff, moist, low plasticity, odours not observed.	G	80	N	MW16-04 (29.3)				0.6			
98		End of Hole											

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