

# 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		<b>SAND</b> 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		<b>SAND</b> Brown, fine to medium SAND with some silt and trace gravel. Compact, dry, staining and odours not observed.											
2.5		<b>SAND</b> Brown SAND with trace silt and trace gravel. Loose, dry, staining and odours not observed.	G	120	N	MW16-04 (2.0)	0.6						
3.0		<b>SAND</b> Brown SAND with some silt and some fine gravel. Compact, dense, moist, staining and odours not observed.											
3.5		<b>SAND</b> Brown SAND with some silt and some fine gravel. Slightly dense, wet, staining and odours not observed.	G	115	N	MW16-04 (3.0)	0.7						
4.0		<b>SAND</b> 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	<b>SAND</b> Brown SAND with some silt and some fine gravel. Slightly dense, wet, staining and odours not observed.											
17		<b>Silty SAND</b> 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		<b>Silty SAND</b> 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		<b>Silty SAND</b> 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		<b>Silty SAND</b> 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		<b>Silty SAND</b> 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		<b>Silty SAND</b> 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	[Symbol]	<b>Silty SAND</b> 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					[Well Construction Diagram]	
35													
36	[Symbol]	<b>SAND</b> 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					[Well Construction Diagram]	
37													
38	[Symbol]	<b>SAND</b> 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					[Well Construction Diagram]	Bentonite
39													
40	[Symbol]										[Well Construction Diagram]		
41													
42	[Symbol]										[Well Construction Diagram]		
43													
44	[Symbol]										[Well Construction Diagram]		
45													
46	[Symbol]	<b>SILT</b> 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					[Well Construction Diagram]	Sand and Well Screen Perched @ 15.2m
47			G	135	Y	DUP F							
48	[Symbol]										[Well Construction Diagram]		
49													
50	[Symbol]	<b>SILT</b> Medium stiff, moist, low plasticity, no odours observed.									[Well Construction Diagram]		
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		<b>SILT</b> Medium stiff, moist, low plasticity, no odours observed.											
53	16	<b>SAND</b> 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		<b>SAND</b> 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	<b>SAND and GRAVEL</b> 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		<b>SAND</b> 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]	<b>SAND</b> 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]	[Remarks]
71													
72	[Symbol]	<b>SAND</b> 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]	[Remarks]
73													
74	[Symbol]	<b>SAND</b> Brown, fine to medium SAND with some gravel. Compact, dry, staining and odours not observed.	G	110	N	MW16-04 (23.0)	2.5					[Well Construction Diagram]	[Remarks]
75													
76	[Symbol]	<b>SAND</b> Brown, fine to medium SAND with some gravel. Compact, dry, staining and odours not observed.	G	110	N	MW16-04 (23.0)	2.5					[Well Construction Diagram]	[Remarks]
77													
78	[Symbol]	<b>SAND</b> Grey, fine to coarse SAND with trace to no silt, washed look appearance. Loose, wet, staining and odours not observed.	G	90	N	MW16-04 (24.0)	1.7					[Well Construction Diagram]	[Remarks]
79													
80	[Symbol]	<b>SAND</b> 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]	[Remarks]
81													
82	[Symbol]	<b>SAND</b> 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]	[Remarks]
83													
84	[Symbol]	<b>SAND</b> 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]	[Remarks]
85													
86	[Symbol]	<b>SAND</b> 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]	[Remarks]
87													

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							0	500	1000	1500	2000		
88		<b>SAND</b> Grey, fine to coarse SAND with trace silt below 25.2m. Loose, dry, staining and odours not observed.											
89		<b>SAND</b> Grey, medium to coarse SAND. Loose, saturated, staining and odours not observed.											
92			G	80	Y	MW16-04 (28.4)				1.3			
94		<b>SAND</b> Light brown fine SAND. Loose, wet, staining and odours not observed.	G	80	N	MW16-04 (28.7)				0.5			
96		<b>SILT</b> 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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