

Town of Watson Lake

Borehole No: MW17-05

Project: TOWL Landfill Hydrogeological Update



Project No: ENW.WENW03058-01

Location: TOWL Landfill

Ground Elev: 717.329 m

Watson Lake, Yukon

UTM: 514164.324 E; 6658968.371 N; Z 9

Depth (m)	Method	Soil Description	Notes and Comments	MW17-05	Elevation (m)
0					717
1		SILT - sandy, trace gravel, damp, loose, beige, smooth subrounded gravel to 50 mm diameter	Pipe stickup = 0.64 metres above ground surface Cement from 0.6 metres below ground to ground surface		717
2		- sandy, some gravel, slightly more compact, greyish brown			716
3		- aluminum can lid	51 mm schedule 40 PVC pipe		715
4		- cobble			714
5		- gravelly, orange weathered, oxidized zone			713
6		- subangular mixed lithology gravel to 50 mm diameter			712
7		SILT AND SAND - gravelly (mixed lithology), damp, moist around rocks, beige brown, smooth subrounded gravel to 60 mm diameter			711
8		- sandy layers - volcanic			710
9		BASALT - fractured, empty vugs, crystalline, fine to medium grained, vug surfaces coated in orangey oxide coating, vesicle to 3 mm diameter			709
10		COLLUVIUM - mixed silt, sand, gravel and basalt cobbles			708
11		BASALT - fractured, weathered, soft, medium grey, mixed xenoliths, vesicle <1 mm diameter			707
12		- black, crystalline, vesicle to 2 mm diameter, xenolith inclusions to 3 mm thick, yellow red weathered on fractured surfaces			706
13		- gravelly, clayey, sticky clay, angular basalt gravel to 75 mm diameter, black weathering	705		
14		SAND - gravelly, silty, damp, loose, pink beige, smooth subrounded gravel to 30 mm diameter	Bentonite from 25.6 to 0.6 metres below ground surface	704	
15		GRAVEL - sandy, trace silt, mixed lithology, damp, beige to brown, smooth subrounded gravel to 30 mm diameter, gradational contact		703	
16		- moist, cobbles to 90 mm diameter	702		
17		SAND - gravelly, silty, some cobbles, damp, smooth subrounded cobbles to 80 mm diameter, gradational contact	701		
18		- some silt, smooth subrounded gravel to 60 mm diameter	700		
19		SILT AND GRAVEL - trace sand, damp, stiff, non plastic, beige to brown	699		
20		GRAVEL - silty, sandy, some cobbles, mixed lithologies, damp, loose, smooth subangular cobbles to 85 mm diameter	698		
20		- some silt			



Contractor: [REDACTED]

Completion Depth: 32 m

Drilling Rig Type: LS 250 Track Mounted Mini Sonic

Start Date: 2017 October 3

Logged By: [REDACTED]

Completion Date: 2017 October 4

Reviewed By: [REDACTED]

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20					697
21					696
22		COBBLES - gravelly, sandy, some silt, mixed lithologies, damp, loose, beige, smooth subrounded cobbles to 90 mm diameter			695
23		SILT - trace clay, dry, firm, compact, non cohesive, grey brown - moist, soft, light orangey brown	51 mm schedule 40 PVC pipe		694
24					693
25		SAND - some silt to silty, wet, soft, non cohesive, orangey beige, fine sand			692
26	Sonic	- silty, moist, stiff	No. 10/20 silica sand to 25.6 metres below ground surface		691
27					690
28			51 mm schedule 40 10-slot PVC screen from 26.3 to 29.3 metres below ground surface		689
29					688
30		SILT - gravelly, dry to damp, stiff, grey brown, angular gravel to 15 mm diameter			687
31					686
32		END OF BOREHOLE (32.00 metres) Monitoring well installed to 29.30 metres			685
33					684
34					683
35					682
36					681
37					680
38					679
39					678
40					678



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