

ISSUED FOR USE

NOTES

- 1) Well screen manufactured by Johnson
- 2) See TH1-08 (Well 9) and TH2-08a, TH2-08b (Well 8) in Appendix A for well lithology and grain size analysis depths
- 3) Grain size analysis results included in Appendix B

CLIENT



2008 Groundwater Exploration and Development Program, Whitehorse, Yukon


WELL 8 AND 9 CONSTRUCTION DETAILS

PROJECT NO W23101152.003	DWN LM	CKD KSJ	REV 1
OFFICE EBA-KELOWNA	DATE January 8, 2009		

Figure 4



C:\Kobornal\Drilling\W23101152\W23101152\W23101152.003_FIGS 1-9_R1.dwg [FIGURE 4] February 09, 2009 - 2:29pm lma\jebch

Project: 2008 Groundwater Exploration and Development Program, Whitehorse, Yukon		Client: City of Whitehorse		PROJECT NO. - BOREHOLE NO.										
see Figure 2 for borehole location		Equipment: Superdrill 150 RDU Sonic Drill		W23101152.001 - TH2-08(a)										
ELEVATION: 645m		SAMPLE TYPE <input type="checkbox"/> DISTURBED <input type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> SPT <input type="checkbox"/> A-CASING <input type="checkbox"/> SHELBY TUBE <input type="checkbox"/> CORE												
BACKFILL TYPE <input type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND														
Depth (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	USCS	GRAPHICAL LEGEND	MOISTURE CONTENT	CLASSIFICATION TESTS			PARTICLE SIZE DISTRIBUTION			POCKET PENETROMETER (RPA)	Elevation (m)
							PLASTIC	M.C.	LIQUID	FINES (%)	SAND (%)	GRAVEL (%)		
0	LOAM SAND, some silt			PT SW									645.0	
1	NO CORE												644.0	
2													643.0	
3													642.0	
4	SAND, some gravel, trace silt												641.0	
4.5	Approximate water level on August 13, 2008												640.0	
5													639.0	
6													638.0	
7													637.0	
8				SW									636.0	
9													635.0	
10													634.0	
11													633.0	
12													632.0	
13	GRAVEL, sandy, trace silt			GW									631.0	
14	SAND, silty			SW									630.0	
15	GRAVEL, some sand, trace silt SAND, some silt, trace gravel			GW									629.0	
16													628.0	
17													627.0	
18													626.0	
19				SW									626.0	
 EBA Engineering Consultants Ltd.						LOGGED BY: MAL			COMPLETION DEPTH: 33.5m					
						REVIEWED BY: KSJ			COMPLETE: 8/13/2008					
						DRAWING NO: TH2-08(a)			Page 1 of 2					

Project: 2008 Groundwater Exploration and Development Program, Whitehorse, Yukon		Client: City of Whitehorse		PROJECT NO. - BOREHOLE NO.										
see Figure 2 for borehole location		Contractor: SDS Drilling		W23101152.001 - TH2-08(a)										
		Equipment: Superdrill 150 RDU Sonic Drill		ELEVATION: 645m										
SAMPLE TYPE		<input type="checkbox"/> DISTURBED	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> A-CASING	<input type="checkbox"/> SHELBY TUBE	<input type="checkbox"/> CORE							
BACKFILL TYPE		<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND							
Depth (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	USCS	GRAPHICAL LEGEND	MOISTURE CONTENT	CLASSIFICATION TESTS			PARTICLE SIZE DISTRIBUTION			POCKET PENETROMETER (RPA)	Elevation (m)
							PLASTIC	M.C.	LIQUID	FINES (%)	SAND (%)	GRAVEL (%)		
19							10	20	30	40				626.0
20	SAND and GRAVEL, trace silt													625.0
21	SAND, trace gravel, trace silt, coarsening upward sequence, silt content increases with depth		21.2											624.0
22														623.0
23	SAND and GRAVEL, trace silt		22.4											622.0
24				SP										621.0
25	SAND, gravelly, trace silt GRAVEL, sandy, trace silt		25.1	GP										620.0
26	SAND, trace silt NO CORE													619.0
27														618.0
28	GRAVEL and SAND, trace silt		27.6	GP										617.0
29	TILL													616.0
30				CL										615.0
31														614.0
32														613.0
33	BEDROCK - BASALT			BEDROCK										612.0
34	END OF BOREHOLE AT 33.5 METRES													611.0
35	Elevation is approximate. See Appendix B for grain size results. TH2-08(a) drilled as a pilot hole for well 8 - see Figure 4 for well 8 construction details.													610.0
36														609.0
37														608.0
38														607.0



EBA Engineering Consultants Ltd.

LOGGED BY: MAL


REVIEWED BY: KSJ

DRAWING NO: TH2-08(a)

COMPLETION DEPTH: 33.5m

COMPLETE: 8/13/2008

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Project: 2008 Groundwater Exploration and Development Program, Whitehorse, Yukon		Client: City of Whitehorse			PROJECT NO. - BOREHOLE NO.									
see Figure 2 for borehole location		Equipment: Superdrill 150 RDU Sonic Drill			W23101152.001 - TH2-08(b)									
ELEVATION: 645m		SAMPLE TYPE <input type="checkbox"/> DISTURBED <input type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> SPT <input type="checkbox"/> A-CASING <input type="checkbox"/> SHELBY TUBE <input type="checkbox"/> CORE												
BACKFILL TYPE <input type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SAND														
Depth (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	USCS	GRAPHICAL LEGEND	MOISTURE CONTENT	CLASSIFICATION TESTS		PARTICLE SIZE DISTRIBUTION			POCKET PENETROMETER (MPa)	Elevation (m)	
							PLASTIC	M.C.	LIQUID	FINES (%)	SAND (%)			GRAVEL (%)
0	NO CORE						10	20	30	40				645.0
1														644.0
2														643.0
3														642.0
4														641.0
5														640.0
6														639.0
7														638.0
8														637.0
9														636.0
10														635.0
11														634.0
12														633.0
13														632.0
14														631.0
15														630.0
16														629.0
17														628.0
18														627.0
19														626.0
 EBA Engineering Consultants Ltd.							LOGGED BY: MAL		COMPLETION DEPTH: 29m					
							REVIEWED BY: KSJ		COMPLETE: 8/13/2008					
							DRAWING NO: TH2-08(b)		Page 1 of 2					

Project: 2008 Groundwater Exploration and Development Program, Whitehorse, Yukon		Client: City of Whitehorse		PROJECT NO. - BOREHOLE NO.											
see Figure 2 for borehole location		Contractor: SDS Drilling		W23101152.001 - TH2-08(b)											
		Equipment: Superdrill 150 RDU Sonic Drill		ELEVATION: 645m											
SAMPLE TYPE		<input type="checkbox"/> DISTURBED	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> A-CASING	<input type="checkbox"/> SHELBY TUBE	<input type="checkbox"/> CORE								
BACKFILL TYPE		<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SAND								
Depth (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	USCS	GRAPHICAL LEGEND	MOISTURE CONTENT	CLASSIFICATION TESTS			PARTICLE SIZE DISTRIBUTION			POCKET PENETROMETER (kPa)	Elevation (m)	
							PLASTIC	M.C.	LIQUID	FINES (%)	SAND (%)	GRAVEL (%)			
19	NO CORE													626.0	
20															
21															
22															
23															
24															
25															
26															
27		GRAVEL, some silt, trace sand		26.8	GW										618.0
28		SAND, gravelly, trace silt			SW										617.0
29		GAVEL, some silt, trace sand			GW										616.0
30		TILL			CL										615.0
31		BEDROCK - BASALT			BEDROCK										614.0
32		END OF BOREHOLE AT 29.0 METRES													613.0
33		Elevation is approximate. See Appendix B for grain size results. TH2-08(b) drilled as a pilot hole for well 8 - see Figure 4 for well 8 construction details.													612.0
34															
35															
36															
37															
38															

	LOGGED BY: MAL	COMPLETION DEPTH: 29m
	REVIEWED BY: KSJ	COMPLETE: 8/13/2008
	DRAWING NO: TH2-08(b)	Page 2 of 2