HYDROGEOLOGIC LOG

PURPOSE OF HOLE: DRILLING METHOD: START DRILLING: SCREEN INSTALLED: CONTRACTOR: Water Supply N/A November 9, 2005 November 17, 2005 N/A

BOREHOLE NO.

TW05-01

 GROUND ELEV. (m-geod):
 695.15

 TOP OF CASING (m-geod):
 696.15

 CASING STICK UP (m):
 1.00 m

 DEPTH TO STATIC (m):
 5.44 m below grd.

 DEPTH TO SCREEN TOP (m):
 36.4 m - bg

 UTM COORD'S FROM GPS:
 6673241 N, 183022 E

Lithology Comments Well Installation Summary Depth (m) Circle Plate - lockable 0m GRAVEL - some sand, fine-med. grained sub-rounded gravel, sand is well graded, Bentonite Surface Seal moist, brown/grey <u> 5</u>m 5.2 m 5.44 m = Static Water Level SAND & GRAVEL - trace of silt, wet, 6.00 m (January 15, 2006) brown 8.5 m GRAVEL - some sand, fine-coarse grained sub-rounded gravel, wet, brown 11.9 m SILT & SAND (TILL) - some gravel, 6" (152 mm) ID Steel Well Casing fine-med. grained sand, angular gravel, <u>15m</u>moist, grey 16.5 m SAND - silty, trace of gravel, some organics, fine-med. grained sand <u>20</u>m 22.5 m SAND - silty, med. grained, some coarse <u>250</u> sand becoming coarser with depth, wet, grey <u>23.8 m</u> SILT & SAND - wood 29.0 m <u>30</u>mWOOD (PEAT) - trace of silt, trace of sand, moist, brown 35.0 m 35m Barber Drive Shoe SAND - silty, fine-med, grained sand, wet, grey Nominal (Telescope) continuous slot stainless steel 2.0 mm (0.080") well screen from 36.4 m to 37.6 m-bg. 1.0 mm (0.040") from 37.6 to 38.8 SAND & GRAVEL - well graded sand, fine-med. grained gravel becoming coarser with depth, 40m wet, grev 39.0 m m-bg. SAND - trace of gravel, well graded sand, wet, 41.1m grey Cuttings/Backfill END OF HOLE **-**45m PROJECT HYDROGEOLOGICAL ASSESSMENT FOR EBA Engineering Consultants Ltd. 900 WATER SUPPLY - WATSON LAKE, YUKON CLIENT TITLE TOWN OF WATSON LAKE WELL LOG TW05-01 FIGURE A1 DATE DEC. 2005 DWN. JSB CHKD. KSJ FILE NO. 1260004 DRWG.

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	tion & Address					<u> </u>			
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3. WATER	Other 1 🖸 Domestic	2 🛛 Municipal 3 [Diameter from	6				
WELL U	SE4 Comm. & Ind.	. D Other		to	119.5				
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Table 1: Well Drilling and Completion SummaryTown of Watson LakeGUDI Assessment for Wells 1, 1A, 3 and 4

Well ID	Date Drilled	Lithology (m)	Screened Interval (m)	Slot Size ¹	Pumping Rates
Well 1	December 1973	0 - 5.8 Gravel, Boulders, some clay 5.8 - 12.8 Gravel and Boulders	8.8 - 13	0.125" (125 slot)	11.7 L/sec (186 USgpm)
Well 1A	May 1977	0 - 14.3 Gravel and Sand 14.3 - 15.2 Till 15.2 - 25.9 Sand and Gravel 25.9 - 32 Sand, trace silt & wood	20 - 23.2	0.040" (40 slot)	10.1 L/sec (160 USgpm); later reduced to 8.3 L/sec (132 USgpm)
Well 2	September 1993	0 - 24.9 Gravel 24.9 - 25.6 Silt	21.85 - 24.9 ²	0.200" (200 slot)	11.9 L/sec (189 USgpm)
Well 3	November 2005	0 - 11.9 Sand and Gravel 11.9 - 16.5 Silt and Sand (Till) 16.5 - 23.8 Silty Sand 23.8 - 29 Silt and Sand, wood 29 - 35 Peat 35 - 36 Silty Sand 36 - 41.1 Sand and Gravel	36.4 - 38.8	0.080" (80 slot) 36.4 - 37.6 m 0.040" (40 slot) 37.6 - 38.8 m	12.7 L/sec (202 USgpm)
Well 4 ³	April 2012	0 - 12.2 Sand and Gravel 12.2 - 13.8 Till 13.8 - 22.9 Gravelly Sand 22.9 – 29.9 Sand, trace gravel	28.3 - 31.34	0.060" (60 slot)	30 L/sec (475 USgpm) ⁴

Notes:

Well details from EBA 2006, unless otherwise noted.

1. Slot sizes are given in 1/1000 inch. So, a 100 slot well screen is 1/10 inch or 2.54 mm.

The maximum typically manufactured slot size is 250 slot or 1/4 inch, 6.25 mm.

2. Screen depths from RCPL 1993.

3. Well information from AECOM, 2012.

4. Estimated long-term yield