

HYDROGEOLOGIC LOG

BOREHOLE NO.

WELL 3123-B

PURPOSE OF HOLE: Water Supply Well
 DRILLING METHOD: Dual Air Rotary
 START DRILLING: Sept 4, 2002
 SCREEN INTERVAL: 44.8 - 46.0 m
 CONTRACTOR: Double 'D' Drilling Ltd.

CASING STICK UP (m): 1.0 m above grd.
 DEPTH TO STATIC (m): 14.1 m below grd.
 DEPTH TO SCREEN TOP (m): 49.8 m

Lithology	Comments	Well Installation Summary
Depth (m)		
0m		Circle Plate - lockable
FILL 1.0 m		Bentonite Surface Seal
Organic Material - SILT 3.0 m		6 m
SAND & GRAVEL - medium to coarse grained, brown, very moist		6" (152 mm) ID Steel Well Casing
10m		
15m		
18.3 m	Static Water Level = 12.2 m blg. (Measured on Sept. 18/07)	
SILT, SAND & GRAVEL - fine to coarse grained, grey to brown, moist		
25m		
28.5 m		
SAND & GRAVEL - medium to coarse grained, brown, wet		
35m		
40m		
45m		
47.3 m		Steel Riser fitted K packer top and with threaded plug bottom Barber Drive Shoe
END OF BOREHOLE		1.5 mm Nominal (Telescopic) continuous 100 slot (0.10") stainless steel well screen from 44.8 m to 46.0 m
50m		

CLIENT

Yukon
 Highways and Public Works
 Property Management Agency

**EBA Engineering
 Consultants Ltd.**



Well Completion Report
 Grader Station # 3123-B - Beaver Creek, YT

WELL LOG FOR GRADER STATION WELL # 3123-B

PROJECT NO. W23101031	DWN JSB	CKD TAK/RMM	REV 0
OFFICE EBA-WHSE	DATE October 30, 2007		

Figure 3



- ☒ Well Construction Report
☐ Well Closure Report
☐ Well Alteration Report

Stamp company name/address/
phone/fax/e-mail here, if desired.

Ministry Well ID Plate Number: _____
Ministry Well Tag Number: _____
☐ Confirmation/alternative specs. attached
☐ Original well construction report attached

Red lettering indicates minimum mandatory information.

See reverse for notes & definitions of abbreviations.

Owner name: **YTG PROPERTY MANAGEMENT AGENCY**

Mailing address: _____ Town _____ Prov. _____ Postal Code _____

Well Location: Address: Street no. _____ Street name _____ Town **BEAVER CR**

(or) Legal description: Lot _____ Plan _____ D.L. _____ Block _____ Sec. _____ Twp. _____ Rg. _____ Land District _____

(or) PID: _____ (and) Description of well location (attach sketch, if nec.): **BEAVER CR, GRADER STN.**

NAD 83: Zone: _____ (see note 2) (and) UTM Northing: _____ m UTM Easting: _____ m (or) Latitude (see note 3): **62° 32.789' N** Longitude: **140° 52.690' W**

Method of drilling: ☒ air rotary ☐ cable tool ☐ mud rotary ☐ auger ☐ driving ☐ jetting ☐ excavating ☐ other (specify): _____

Orientation of well: ☒ vertical ☐ horizontal Ground elevation: **2191** ft (asl) Method (see note 4): **HAND HELD GPS**

Class of well (see note 5): **WATER SUPPLY** Sub-class of well: **NON-DOMESTIC**

Water supply wells: indicate intended water use: ☐ private domestic ☐ water supply system ☐ irrigation ☒ commercial or industrial ☐ other (specify): _____

Lithologic description (see notes 7-14) or closure description (see notes 15 and 16)

From ft (bgl)	To ft (bgl)	Relative Hardness	Colour	Material Description (Use recommended terms on reverse. List in order of decreasing amount, if applicable)	Water-bearing Estimated Flow (USgpm)	Observations (e.g., fractured, weathered, well sorted, silty wash), closure details
0	3	S	BRN	FILL		
3	10	S	BRN	PEAT BOG COMPOST, COARSE GRAVEL		
10	15	ST	BRN	SAND, MIXED GRAVELS, COBBLES		
15	58	ST	BRN	MED-COARSE GRAVEL, SAND		WYBE 53 FLOW UNKNOWN
58	83	MST	GY	TILL		
83	93	M	BRN	TILL		
93	114	M	GY	MED-COARSE GRAVEL		
114	135	M	BRN	MIX SAND + FINE GRAVEL		
135	155	M	BRN	MIX SAND + FINE TO MED. GRAVEL		80-100 GPM

Casing details

From ft (bgl)	To ft (bgl)	Dia in	Casing Material / Open Hole	Wall Thickness in	Drive Shoe
0	146	6	STEEL	.250	✓

Screen details

From ft (bgl)	To ft (bgl)	Dia in	Type (see note 18)	Slot Size
147	151	5	KRACKER RISER = 6.5 FT	.100

Surface seal: Type: **Gopher GROUT** Depth: **200** ft
Method of installation: ☐ Poured ☒ Pumped Thickness: **4** in
Backfill: Type: _____ Depth: _____ ft
Liner: ☐ PVC ☐ Other (specify): _____
Diameter: _____ in Thickness: _____ in
From: _____ ft (bgl) To: _____ ft (bgl) Perforated: From: _____ ft (bgl) To: _____ ft (bgl)

Intake: ☒ Screen ☐ Open bottom ☐ Uncased hole
Screen type: ☐ Telescope ☒ Pipe size
Screen material: ☒ Stainless steel ☐ Plastic ☐ Other (specify): _____
Screen opening: ☒ Continuous slot ☐ Slotted ☐ Perforated pipe
Screen bottom: ☒ Bail ☐ Plug ☐ Plate ☐ Other (specify): _____
Filter pack: From: _____ ft To: _____ ft Thickness: _____ in
Type and size of material: _____

Developed by:

☒ Air lifting ☒ Surging ☐ Jetting ☐ Pumping ☐ Bailing
☐ Other (specify): _____ Total duration: **8** hrs
Notes: _____

Well yield estimated by:

☐ Pumping ☒ Air lifting ☐ Bailing ☐ Other (specify): _____
Rate: **80-100** USgpm Duration: **8** hrs
SWL before test: _____ ft (bloc) Pumping water level: _____ ft (bloc)

Obvious water quality characteristics:

☒ Fresh ☐ Salty ☒ Clear ☐ Cloudy ☐ Sediment ☐ Gas

Colour/odour: **SLIGHT RED** Water sample collected: ☒

Well driller (print clearly):

Name (first, last) (see note 19): **ROBERT STANULICK**
Registration no. (see note 20): **WDO6032802**
Consultant (if applicable; name and company): **ESA**

DECLARATION: Well construction, well alteration or well closure, as the case may be,
has been done in accordance with the requirements in the Water Act and the Ground
Water Protection Regulation.

Signature of Driller Responsible

PLEASE NOTE: The information recorded in this well report describes the works and hydrogeologic conditions at the time of construction,
alteration or closure, as the case may be. Well yield, well performance and water quality are not guaranteed as they are influenced by a
number of factors, including natural variability, human activities and condition of the works, which may change over time.

Final well completion data:

Total depth drilled: **155** ft Finished well depth: **151** ft (bgl)
Final stick up: **36** in Depth to bedrock: _____ ft (bgl)
SWL: _____ ft (bloc) Estimated well yield: _____ USgpm
Artesian flow: _____ USgpm, or Artesian pressure: _____ ft

Type of well cap: **LOCKABLE PLATE** Well disinfected: ☒ Yes ☐ No
Where well ID plate is attached: _____

Well closure information:

Reason for closure: _____
Method of closure: ☐ Poured ☐ Pumped
Sealant material: _____ Backfill material: _____
Details of closure (see note 17): _____

Date of work (YYYY/MM/DD):

Started: **2007/09/04** Completed: **2007/09/07**
Comments: _____

white: Customer copy
pink: Driller copy
pink: Ministry copy
Sheet _____ of _____