

## WATER WELL DRILLERS FORM

Well ID:   
To be assigned by Dept. Of Environment

### INSTRUCTIONS FOR COMPLETING THE FORM

1. Additional information is provided at the bottom of this form on page 2.
2. Question can be directed to Water Resources at 867 667-3171.
3. All well construction measurements shall be reported to 0.1 m or 0.3 ft.
4. Please print clearly in blue or black ink.
5. Completion and submission of this form is the responsibility of the drilling contractor.
6. Please specify metric or imperial units for all measurements.

### WELL LOCATION AND OWNER'S INFORMATION

A1 Well Name: GOLDEN HORN FIREHALL Optional (i.e. City Well No. 2)

A2 Drilled For: First Name: KEVIN Last Name: SUMNER Company / Department / Organization: GOVERNMENT OF YUKON

A3 Street Address of Well Location:

A4 Town / Village / Area / Lot #: GOLDEN HORN FIREHALL

A5 UTM Coordinates (using handheld GPS): NAD 8 3 Zone 1

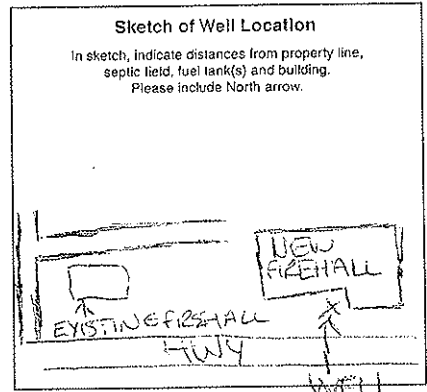
095061814 671181015  
Easting Northing

A6 Elevation of Top of Casing: 730 (m) / ft ASL

A7 Accuracy of GPS: 26 +/- (m) / ft

### A8 Purpose of Wells

- |  |                                       |  |  |
|--|---------------------------------------|--|--|
| <input type="checkbox"/> Domestic              | <input type="checkbox"/> Test Well    | <input type="checkbox"/> Irrigation                | <input type="checkbox"/> Environmental (Quality)                     |
| <input checked="" type="checkbox"/> Commercial | <input type="checkbox"/> Municipal    | <input type="checkbox"/> Observation - Water Level | <input checked="" type="checkbox"/> Other (please identify use)      |
| <input type="checkbox"/> Industrial            | <input type="checkbox"/> Agricultural | <input type="checkbox"/> Public/Recreational       | <span style="border: 1px solid black; padding: 2px;">FIREHALL</span> |



### LOG OF OVERBURDEN AND BEDROCK MATERIALS (All depths are below ground surface, circle appropriate units, use descriptors provided)

#### EXAMPLE ONLY

Depth (m / ft) B2 From B3 To	B4 General Colour <small>(brown, grey, green, black, reddish, beige, olive, yellowish)</small>	B5 Most Common Material <small>CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS, BEDROCK</small>	B6 Secondary Materials <small>"trace" &lt;10% (i.e. SILT trace gravel) "some" 10-20% (i.e. SAND some gravel) "silty / sandy / gravelly" 20-50% (i.e. silty SAND) "and sand" or "and gravel" 55-50%</small>		B7 General Description <small>MOISTURE: dry / moist / saturated (wet) HARDNESS: soft / hard / very hard</small>
			trace gravel	some silt	
0 - 27	BRN	FINE SAND			
27 - 35	BRN/GY	SILTY SAND		SOME CLAY	
35 - 111	GY	SILTY SAND			W/B @ 35
111 - 115	GY	SILTY SAND		TRACE GRAVEL	VERY STICKY
115 - 124	BRN/GY	FINE GRAVEL		TRACE COARSE GRAVEL	
				SOME FINE SAND +	SILT, VERY DENSE MATERIAL
124 - 132	BRN/GY	FINE-MED GRAVEL		WELL CUT WATER	OFF @ 124 FT
132 - 135	GRN	BEDROCK		GOOD FRACTURE	@ 134 BUT NO
				WATER INCREASE	

B8 Permafrost Encountered:  NO  YES If yes, indicated depth (m / ft): from  to

### WELL CONSTRUCTION (Continues on Page 2)

Date Well Completed: 20081906  
Y Y Y Y M M D D

Example: 2005 01 31

C1 Drilling Method:  Air Rotary (Conventional)  Dug  Other (please specify)   
 Reverse Air Rotary  Cable Tool  
 Mud Rotary  Auger (Hollow / Solid Stem)

C2 Well Type: In what geological material is the water producing zone located?  
 OVERBURDEN  BEDROCK

### Casing (depth below ground surface, please circle appropriate units)

C3 Outside Diameter: 6 (cm / in)  
C4 Casing Material:  Steel  Plastic  Other   
C5 Casing Wall Thickness: 2.50 (cm / in)  
C6 Casing Depth to: 116.4 (m / ft)

C7 Other Comments Regarding Casing:

Surface / Environmental Seal (depth below ground surface, please circle appropriate units)

C8 Seal Material Type: 5/8" CEMENT (i.e. Bentonite)  
 C9 Diameter of Seal: 4 (cm)  
 C10 Seal Depth from: 2.5 (m)  
 C11 Seal Depth to: 14.5 (m)  
 C12 Volume Placed: 10 (m<sup>3</sup>)

Gravel Pack (depth below ground surface, please circle appropriate units)

C13 Gravel Pack:  NO If yes, indicated depth (m / ft):  
 YES from:      to:      Indicate diameter of material:      (mm / inches) Material type:      (i.e. silica)

Well Screen Information (depth below ground surface, please circle appropriate units)

C14 Outside Diameter: 5 (cm)  
 C15 Screen Material:  Stainless Steel  Steel  Plastic  N/A  Other:       
 C16 Screen Type:  Continuous Wires Wrap  Louver Screen  Perforated  Slotted  Open Hole  
 C17 Depth from: 1.5 (m / ft) Screen 1  
 C18 Depth to: 11.5 (m / ft) Screen 2  
 C19 Screen: PACKER RISE = 2 FT 0 IN. OVERALL LENGTH 10 FT 8 IN.

WELL DEVELOPMENT AND STATUS

D1 Well Developed by:  Surge Block  Water Jetting  Air Jetting / Air Lifting  Bailing  Pumping  Other:       
 D2 Well Head Completion:  Well House  Pileless Adaptor WELDED PLATE (mm / ft)  Well Pit (NOT PERMITTED)  None (well not completed)  
 D3 Well Head Stick-up (above ground surface):      (ft) (Use negative if below grade)  
 D4 Static Water Level (below top of casing):      (m / ft) (Use negative if below grade)  
 D5 Well Yield Estimate: 2 (Lps) (gpm)  
 D6 Final Well Status:  Water Supply (in use)  Stand by (Back-up)  Observation  Not in use  Deepened  Other:       Abandoned (If well was abandoned, please give reason:     )  Dry  Poor Quality  Insufficient Yield  Artesian conditions  
 D7 Well Abandonment Status: Was the well properly decommissioned with bentonite grout?  YES  NO If YES, Indicate Date:       
 D8 Method Used to Estimate Well Yield:  Air Lifting  Bailing  Pumping Test (If test conducted, complete Pumping Test Record)

PUMPING TEST RECORD AND GROUNDWATER QUALITY

E1 Pumping Test Information  
 Pumping Test Start Date: 20081008  
 Static Water Level (SWL): 10.9 (m / ft)  
 Pump Intake Set at: 35.5 (m / ft)  
 Duration of pumping: 24 hrs      min  
 Final Water Level (FWL) at end of Pumping Test: 27.08 (m / ft)  
 G1 GROUNDWATER QUALITY  
 Field Data: Date Measurements Taken: 20081009  
 Electrical Conductivity: 587 uS  
 pH: 7.40  
 Temperature: 5.1 °C  
 Turbidity/Sand Content:  Clear  Slightly turbid/cloudy  Moderately turbid/cloudy  Turbid/cloudy  Trace sand present  No sand present  
 Well Disinfection: Was the well disinfected upon completion of the pump installation?  YES  NO Briefly describe method of well disinfection:     

F1 Well Water Level Drawdown/Recovery DATA

Drawdown		Recovery	
Time (min)	Water Level (m / ft)	Time (min)	Water Level (m / ft)
0 (SWL)	10.9	0 (FWL)	27.08
1	11.28	1	26.73
2	11.45	2	26.45
3	11.61	3	26.15
4	11.76	4	25.86
5	11.90	5	25.57
10	12.49	10	24.21
15	12.92	15	23.00
20	13.36	20	21.93
25	13.76	25	20.97
30	13.99	30	20.10
40	14.44	40	18.61
50	14.80	50	17.38
60	15.26	60	16.37

Bacteria Testing

Was a sample taken?  YES  NO If yes, indicate the name of the laboratory:  
 Date Sample Taken: 20081009 EHS White

Chemical Analysis of Water

Was a sample taken?  YES  NO If yes, indicate the name of the laboratory:  
 Date Sample Taken: 20081009 Bodycote

WELL CONTRACTOR

H1 Name of Contractor / Drilling Company: DOORS DRILLING LTD  
 H2 Name of Driller(s): ROB STAVIJC  
 H3 Address of Driller: WID # 06 032 802  
 Signature of Primary Driller:       
 Date Submitted to Dept. Of Environment:     

CONSULTANT (if applicable)

I1 Company Name: EBA Engineering Consultants  
 I2 Company Address: Katara Business Centre Unit  
 I3 Report Reference: W23101144  
 I4 Report Date: 210019011219

ADDITIONAL INSTRUCTIONS

Upon completing this form, please mail or fax it to:  
 Water Resources Section (V-310), Department of Environment, Government of Yukon Box 2703, Whitehorse, Yukon, Canada Y1A 2C6  
 Please feel free to contact us at:  
 Phone: (867) 667-3171, Toll free (in Yukon): (1-800) 661-0408, local 3171)  
 Fax: (867) 667-3195 E-mail: Water.Resources@gov.yk.ca

Personal information contained on this form is collected under the authority of the Access to Information and Protection of Privacy (ATIP/PA) Act, Section 29 (c) and will be used to compile a public database of well and ground water information. For further information contact the Manager of Hydrology, Water Resources at (867) 667-3223, toll free within Yukon 1-800-661-0408 Ext 3223.  
 I have read the above clause and understand the purpose for collection of personal information.  
 Signature of Well Owner: