

Y13666 -

## WATER WELL DRILLERS FORM

Well ID:

To be assigned by Dept. Of Environment

Metric  Imperial

### INSTRUCTIONS FOR COMPLETING THE FORM

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

### WELL LOCATION AND OWNER'S INFORMATION

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

A2 Drilled For:

A3 Street Address of Well Location:

A4 Town / Village / Area / Lot #:

A5 UTM Coordinates (using handheld GPS): NAD   Zone

Easting  Northing

A6 Elevation of Top of Casing:  m (ASL)

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

### A8 Purpose of Wells

- Domestic     Test Well     Irrigation     Environmental (Quality)  
 Commercial     Municipal     Observation - Water Level     Other (please identify use)  
 Industrial     Agricultural     Public/Recreational

**Sketch of Well Location**

In sketch, indicate distances from property line, septic field, fuel tank(s) and building. Please include North arrow.

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

EXAMPLE ONLY		(brown, grey, green, black, redish, beige, olive, yellowish)	CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS, BEDROCK	trace < 10% (i.e. SILT trace gravel) "some" 10-20% (i.e. SAND some gravel) "silty / sandy / gravelly" 20-30% (i.e. silty SAND) "sand sand" or "sand gravel" 35-50%	MOISTURE dry / moist / saturated (wet) HARDNESS soft / hard / very hard	
		brown	SAND	trace gravel    some silt	soft and saturated	
Depth (m) (ft)	B2 From	B2 To	B4 General Colour	B5 Most Common Material	B6 Secondary Materials	B7 General Description
0	70	70	Brown	Clay		
70	80	80	Grey	Clay		
80	95	95		Gravel		
95	100	100		Sand		
100	440	440		Bedrock		

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

### WELL CONSTRUCTION (Continues on Page 2)

Date Well Completed:   
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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

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

C7 Other Comments Regarding Casing

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

C8 Seal Material Type: Bentonite  
(i.e. Bentonite)

C9 Diameter of Seal: 10 (m) (in)

C10 Seal Depth from: 0 (m) (ft)

C11 Seal Depth to: 15 (m) (ft)

C12 Volume Placed: \_\_\_\_\_ (m<sup>3</sup>) (ft<sup>3</sup>)

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

C13 Gravel Pack:  NO  YES If yes, indicated depth (m) (ft): \_\_\_\_\_ 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 (cm) (in): 0

C15 Screen Material:  Stainless Steel  Steel  Plastic  N/A  Other: \_\_\_\_\_

C16 Screen Type:  Continuous Wire Wrap  Louver Screen  Perforated  Slotted  Open Hole

C17 Depth from: \_\_\_\_\_ (m) (ft) Screen 1

C18 Depth to: \_\_\_\_\_ (m) (ft) Screen 2

C19 Screen Comments: \_\_\_\_\_

**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  Pitless Adaptor (Depth of adaptor: \_\_\_\_\_ (m) (ft))  Well Pit (NOT PERMITTED)  None (well not completed)

D3 Well Head Stick-up (above ground surface): 2 (m) (ft) (Use negative if below grade)

D4 Static Water Level (below top of casing): 114 (m) (ft) (Use negative if below grade)

D5 Well Yield Estimate: 2.6 (Lps / gph)

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)

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**PUMPING TEST RECORD AND GROUNDWATER QUALITY**

E1 Pumping Test Information

Pumping Test Start Date: \_\_\_\_\_ Y Y Y Y M M D D

Static Water Level (SWL): \_\_\_\_\_ (m) (ft)

Pump Intake Set at: \_\_\_\_\_ (m) (ft)

Duration of pumping: \_\_\_\_\_ hrs \_\_\_\_\_ min

Final Water Level (FWL) at end of Pumping Test: \_\_\_\_\_ (m) (ft)

RECOMMENDATIONS

Recomm. Pump Depth: \_\_\_\_\_ (m) (ft)

Recomm. Pumping Rate: \_\_\_\_\_ (Lps / gph)

If flowing, provide rate: \_\_\_\_\_ (Lps / gph)

**F1 Well Water Level Drawdown/Recovery DATA**

Drawdown		Recovery	
Time (min)	Water Level (m / ft)	Time (min)	Water Level (m / ft)
0 (SWL)		0 (FWL)	
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

**G1 GROUNDWATER QUALITY**

Field Data

Date Measurements Taken: \_\_\_\_\_ Y Y Y Y M M D D

Electrical Conductivity: \_\_\_\_\_ uS

pH: \_\_\_\_\_

Temperature: \_\_\_\_\_ °C

Groundwater Type:  Salty  Sulphur / Egg Odour  Organic Taste / Odour  Metallic Taste  Other: \_\_\_\_\_

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: \_\_\_\_\_

Bacteria Testing

Was a sample taken?  YES  NO If yes, indicate the name of the laboratory: \_\_\_\_\_

Date Sample Taken: \_\_\_\_\_ Y Y Y Y M M D D

Chemical Analysis of Water

Was a sample taken?  YES  NO If yes, indicate the name of the laboratory: \_\_\_\_\_

Date Sample Taken: \_\_\_\_\_ Y Y Y Y M M D D

**WELL CONTRACTOR**

H1 Name of Contractor / Drilling Company: \_\_\_\_\_

H2 Name of Driller(s): \_\_\_\_\_

H3 Address of Driller: \_\_\_\_\_

Signature of Primary Driller: \_\_\_\_\_

Date Submitted to Dept. Of Environment: \_\_\_\_\_ Y Y Y Y M M D D

**CONSULTANT (if applicable)**

I1 Company Name: \_\_\_\_\_

I2 Company Address: \_\_\_\_\_

I3 Report Reference: \_\_\_\_\_

I4 Report Date: \_\_\_\_\_ Y Y Y Y M M D D

**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 notice and understand the purpose for collection of personal information

Signature of Well Owner: \_\_\_\_\_