

WATER WELL DRILLERS FORM

Well ID:

To be assigned by Dept. Of Environment

Metric Imperial

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: 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 / ft 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) "and sand" or "and 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 B3 To	B4 General Colour	B5 Most Common Material	B6 Secondary Materials	B7 General Description
0	2	Brown	Peat	Silt.	Soft
2	4	Brown	Silt		Dense
4	80	Cohek	Silt.	Clay	Dense
80	105	Cohek	Till	Cobbles - Gravel	Hard
105	108	Clear	Ice		Soft
108	160	Grey	Till	Gravel	Hard
160	175	Cohek	Gravel.	Ice, Sand	Hard
175	180	Cohek	Cohek.	Sand.	High Production
180	189	Cohek	Sand.	Cohek	High Production
189	190	Gravel	Till.	Gravel.	Very Hard

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

WELL CONSTRUCTION (Continues on Page 2)

Date Well Completed: 20151025

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: 6.65 (cm) (in)
 C4 Casing Material: Steel Plastic Other
 C5 Casing Wall Thickness: 1.250 (cm) (in)
 C6 Casing Depth to: 179 (m) (ft)

C7 Other Comments Regarding Casing:

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

C8 Seal Material Type: Concrete (i.e. Bentonite)
 C9 Diameter of Seal: 21 (cm / in)
 C10 Seal Depth from: 0 20 (m / ft)
 C11 Seal Depth to: _____ (m / ft)
 C12 Volume Placed: 18 bags (m³ / ft³)

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: 5.5 (cm / in)
 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: Screen 1: 185 (m / ft) Screen 2: 181 (m / ft) Screen 3: 177 (m / ft)
 C18 Depth to: Screen 1: 189 (m / ft) Screen 2: 185 (m / ft) Screen 3: 181 (m / ft)
 Slot Size / Perforation Dia: Screen 1: 25 Thou. / mm / inches Screen 2: 20 Thou. / mm / inches Screen 3: 18 Thou. / mm / inches
 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 Well Pit (NOT PERMITTED) None (well not completed)
 D3 Well Head Stick-up (above ground surface): 33 (m / ft) (Use negative if below grade)
 D4 Static Water Level (below top of casing): 6 (m / ft) (Use negative if below grade)
 D5 Well Yield Estimate: 40 (Lps / gpm)
 D6 Final Well Status: Water Supply (in use) Not in use Stand by (Back-up) Observation Abandoned Deepened Other: _____
 D7 Well Abandonment Status: Was the well properly decommissioned with bentonite grout? YES NO
 D8 Method Used to Estimate Well Yield: Air Lifting Bailing Pumping Test (If test conducted, complete Pumping Test Record)
 If YES, Indicate Date: _____
 Y Y Y Y M M D D

PUMPING TEST RECORD AND GROUNDWATER QUALITY

(All depths below ground, circle appropriate units)

E1 Pumping Test Information

Pumping Test Start Date: 20151627
 Y Y Y Y M M D D

Static Water Level (SWL): _____ (m / ft)

Pump Intake Set at: 166 (m / ft)

Duration of pumping: 34 hrs _____ min

Final Water Level (FWL) at end of Pumping Test: _____ (m / ft)

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: _____

RECOMMENDATIONS

Recomm. Pump Depth: 160 (m / ft)
 Recomm. Pumping Rate: 40 (Lps / gpm)
 If flowing, provide rate: _____ (Lps / gpm)

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.

600 Gal - 200 PPM Chlorine water

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	

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: Midnight Sun Drilling
 H2 Name of Driller(s): Carl MacKenzie
 H3 Address of Driller: Box 1515 Dawson City
 Signature of Primary Driller: _____
 Date Submitted to Dept. Of Environment: _____
 Y Y Y Y M M D D

CONSULTANT (If applicable)

I 1 Company Name: _____
 I 2 Company Address: _____
 I 3 Report Reference: _____
 I 4 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 (AT/IPP) 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