

## 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: YDWN-1801 Optional (i.e. City Well No. 2)

A2 Drilled For: [REDACTED] First Name Last Name Company / Department / Organization  
Yukon Environment

A3 Street Address of Well Location: Gunnar Nilsson / Midby Lamnes Research Forest.

A4 Town / Village / Area / Lot #: Whitehorse, YT

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

488670.64 Easting 6746781.63 Northing

A6 Elevation of Top of Casing: 66.2 m / ft ASL

A7 Accuracy of GPS: ~5 +/- m / ft

**Sketch of Well Location**

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

### A8 Purpose of Wells

- |                                     |  |   |  |
|-------------------------------------|--|---|--|
| <input type="checkbox"/> Domestic   | <input checked="" type="checkbox"/> Test Well    | <input type="checkbox"/> Irrigation                           | <input checked="" type="checkbox"/> Environmental (Quality)                                      |
| <input type="checkbox"/> Commercial | <input type="checkbox"/> Municipal               | <input checked="" type="checkbox"/> Observation - Water Level | <input type="checkbox"/> Other (please identify use)   |
| <input type="checkbox"/> Industrial | <input checked="" type="checkbox"/> Agricultural | <input type="checkbox"/> Public/Recreational                  | <span style="border: 1px solid black; display: inline-block; width: 50px; height: 15px;"></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, redish, 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" 20-30% (i.e. silty SAND) "and sand" or "and gravel" 35-50%</small>		B7 General Description <small>MOISTURE: dry / moist / saturated (wet) HARDNESS: soft / hard / very hard</small>
				trace gravel	some silt	
	0 30	brown	Clay			hard clay
	30 63	Grey	Clay			SOFT MOIST
	63 134	Grey	SILT			SOFT WET SILT
	134 157	Grey	Sand		Clay lenses	Fine SOFT SILTY
	157 193	Grey	SILT			SOFT SILTY SAND
	193 205	Grey	Sand			clean sand
	205 223	Grey	SILT			SOFT SILTY SAND
	223 234	Grey	Gravel			Hard Sand & Gravel
	234 238	Grey	Gravel		Silt-clay	Silty Hard Till

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

### WELL CONSTRUCTION (Continues on Page 2)

Date Well Completed 20180315  
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 4.5 (cm / in)  (cm)  (in)  
C4 Casing Material  Steel  Plastic  Other    
C5 Casing Wall Thickness 0.250 (cm / in)  (cm)  (in)  
C6 Casing Depth to: 227 (m / ft)  (m)  (ft)  
227

C7 Other Comments Regarding Casing:

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

C8 Seal Material Type: Bentonite
C9 Diameter of Seal: 10 x 6.375 (cm/in)
C10 Seal Depth from: 0 (m/ft)
C11 Seal Depth to: 20 (m/ft)
C12 Volume Placed: 98 (m³/ft³)

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

C13 Gravel Pack: NO
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
C16 Screen Type: Continuous Wire Wrap
C17 Depth from: 235 (m/ft)
C18 Depth to: 231 (m/ft)
Slot Size / Perforation Dia: 0.20 (Thou./mm/inches)

WELL DEVELOPMENT AND STATUS

D1 Well Developed by: Air Jetting / Air Lifting
D2 Well Head Completion: None (well not completed)
D3 Well Head Stick-up: 3 (m/ft)
D4 Static Water Level: 119 (m/ft)
D5 Well Yield Estimate: 100 (Lps/gpm)
D6 Final Well Status: Observation
D7 Well Abandonment Status: NO
D8 Method Used to Estimate Well Yield: Air Lifting

PUMPING TEST RECORD AND GROUNDWATER QUALITY

(All depths below ground, circle appropriate units)

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)

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: (m / ft)
Recomm. Pumping Rate: (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.

F1 Well Water Level Drawdown/Recovery DATA

Table with 4 columns: Time (min), Water Level (m/ft), Time (min), Water Level (m/ft). Rows for 0 (SWL), 0 (FWL), 1, 2, 3, 4, 5, 10, 15, 20, 25, 30, 40, 50, 60.

Bacteria Testing

Was a sample taken? YES NO
Date Sample Taken:
Y Y Y Y M M D D

Chemical Analysis of Water

Was a sample taken? YES NO
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: 806 Black St
Signature of Primary Driller
Date Submitted to Dept. Of Environment: 20150319

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 (ATIPPA) 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