



MORRISON HERSHFIELD

Well Decommissioning Report

Well Owner: Town of Watson Lake Owner Mailing Address: 710 Adela Trail Town: Watson Lake
Province/Territory: YT Postal Code: Y0A 1C0

Well Identification: Well 3 Well Location: Address: Hyland Ave. and 6th St. North
Town: Watson Lake Province/Territory: Yukon Legal description: Land disposition: 105-A02-022
Project map attached:

Geographic coordinates of well: UTM Easting: 051 6876 UTM Zone: 9V
Northing: 665 8936

Name of person completing the work: Randy Carlson Company: Bluestone Holdings Ltd.
P.O. Box: 507 Town: Watson Lake Province/Territory: Yukon Postal Code: Y0A 1C0
Phone: 867-536-2304

Name of person supervising the work: Matthias Purdon Company: Morrison Hershfield Ltd.
Address: 301 Hawkins St. Unit 101 Town: Whitehorse Province/Territory: Yukon
Postal Code: Y1A 1X5 Phone: 867-456-4747 ext. 1162203

Date of Work: Started (Day/Month/Year): 18/10/2017 Finished (Day/Month/Year): 19/10/2017
Reason for closure: The municipal production well was constructed 12 years ago and was replaced by newer wells. Decommissioning of this well was performed to reduce the risk of potential contaminants from surface infiltration into the aquifer.

Well Description

Method of drilling well: Drilled Composition of material: Threaded steel Casing
Well Casing: Inside Diameter of well casing (mm): 152mm Stick-up height (m bgs): 1.0m
Depth to bottom of well (m bgs): 38.6m Depth to water (m bgs): 6.1m
Depth from top of cut casing (m below top of cut casing): 37.5m

Well Sealing Details

Component of well cap	Material	Emplacement Method	Volume (m³)	From (m bgs)	To (m bgs)
Well Bore Infill	Washed pea gravel	Poured into well bore.	0.59m³	38.6m	6.4m
Well bore seal	Baroid Holeplug graded sodium Bentonite	Poured into well bore and hydrated with onsite water.	0.1m³	6.4m	1.1m
Well pit seal	Baroid Holeplug graded sodium Bentonite	Well pit seal was installed with hand tools, using hydrated bentonite chips, around the casing with a radial thickness of 100mm. Hydrated bentonite cap was built 0.2m above cut casing using the same method and material.	0.06m³	1.7m	0.8m
Well Pit Backfill	Native earth fill	Placed with excavator in two lifts and compacted using loader blade and tires. Final grade was positively crowned relative to the surrounding land surface. This was done immediately after completing well seal.	~7m³	1.7m	0.0m

Notes: m bgs = meters below ground surface